

10 CFR 50.90

NMP2L2731

May 14, 2020

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001Nine Mile Point Nuclear Station, Unit 2
Renewed Facility Operating License No. NPF-69
NRC Docket No. 50-410

Subject: Response to Request for Additional Information by the Office of Nuclear Reactor Regulation to Support Review of Nine Mile Point Nuclear Station, Unit 2, License Amendment Request to Increase Allowable MSIV Leakage Rates

- References:
1. Letter from J. Barstow (Exelon Generation Company, LLC) to U.S. Nuclear Regulatory Commission, "License Amendment Request to Revise Technical Specifications Main Steam Isolation Valve Leak Rate," dated May 31, 2019
 2. Letter from M. Marshall (Senior Project Manager, U.S. Nuclear Regulatory Commission) to R. Reynolds (Exelon), "Nine Mile Point Nuclear Station, Unit 2-Request for Additional Information Regarding License Amendment Request to Increase Allowable MSIV Leakage Rates (L-2019-LLA-0115)," dated October 23, 2019
 3. Letter from D. Gudger (Exelon Generation Company, LLC) to U.S. Nuclear Regulatory Commission, "Response to Request for Additional Information by the Office of Nuclear Reactor Regulation to Support Review of Nine Mile Point Nuclear Station, Unit 2, License Amendment Request to Increase Allowable MSIV Leakage Rates," dated November 21, 2019
 4. Letter from M. Marshall (Senior Project Manager, U.S. Nuclear Regulatory Commission) to R. Reynolds (Exelon), "Nine Mile Point Nuclear Station, Unit 2-Draft Request for Additional Information Regarding License Amendment Request to Increase Allowable MSIV Leakage Rates (L-2019-LLA-0115)," dated February 14, 2020

By letter dated May 31, 2019 (Reference 1), Exelon Generation Company, LLC (Exelon) requested to change the Nine Mile Point Unit 2 (NMP2) Technical Specifications (TS). The proposed amendment request would modify NMP2 TS License Amendment Request to increase allowable MSIV leakage rates.

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On October 3, 2019, the U.S. Nuclear Regulatory Commission (NRC) identified a draft request for additional information necessary to complete the review. On October 22, 2019, a clarification teleconference was held between NRC and Exelon personnel. On October 23, 2019 (Reference 2), the NRC issued to Exelon a formal request for additional information.

By letter dated November 21, 2019 (Reference 3), Exelon submitted responses to the request for additional information issued by the NRC in Reference 2.

On February 3, 2020, the NRC identified a draft request for additional information necessary to complete their review. On February 14, 2020, a teleconference was held between the NRC and Exelon personnel to align with Exelon's request for a 90-day response. On February 14, 2020, the NRC issued to Exelon a formal request for additional information (Reference 4).

Attachment 1 to this letter contains the NRC's request for additional information immediately followed by Exelon's response. Attachment 2 contains supplemental information that revises the implementation period to 60 days after approval of the amendment. The Enclosure contains H21C-106, Revision 4, "Unit 2 LOCA w/LOOP, AST Methodology."

Exelon has reviewed the information supporting a finding of no significant hazards consideration and the environmental consideration provided to the NRC in Reference 1. The additional information provided in this response does not affect the bases for concluding that the proposed license amendment does not involve a significant hazards consideration. Furthermore, the additional information provided in this response does not affect the bases for concluding that neither an environmental impact statement nor an environmental assessment needs to be prepared in connection with the proposed amendment.

There are no commitments contained in this response.

If you should have any questions regarding this submittal, please contact Ron Reynolds at 610-765-5247.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 14th day of May 2020.

Respectfully,



David T. Gudger
Senior Manager- Licensing
Exelon Generation Company, LLC

Attachments: 1) Response to Request for Additional Information
2) Supplemental Information

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Enclosure: H21C-106, Revision 4, "Unit 2 LOCA w/LOOP, AST Methodology"

cc:	USNRC Region I Regional Administrator	w/attachments
	USNRC Senior Resident Inspector - NMP	"
	USNRC Project Manager, NRR - NMP	"
	A. L. Peterson, NYSERDA	"

ATTACHMENT 1

License Amendment Request

Nine Mile Point Nuclear Station Unit 2

Docket No. 50-410

Response to Request for Additional Information

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

INCREASE ALLOWABLE MSIV LEAKAGE RATES

Background:

Exelon's revised loss of coolant accident (LOCA) radiological analysis (Calculation No. H21C-106, Revision 3), contained in Enclosure A of the LAR, proposes to modify several assumptions and inputs previously used to model the main steam isolation valve (MSIV) leakage pathway after a postulated design basis LOCA.

As stated in NRC Regulatory Issue Summary 2006-04, "Experience with Implementation of Alternative Source Terms," dated March 7, 2006 (ADAMS Accession No. ML053460347), any licensee who chooses to reference the assumptions in AEB 98-03 should provide an appropriate justification that the assumptions are applicable to their particular design.

Section 50.67 of 10 CFR requires, in part, that:

(i) An individual located at any point on the boundary of the exclusion area for any 2-hour period following the onset of the postulated fission product release, would not receive a radiation dose in excess of 25 rem total effective dose equivalent (TEDE), (ii) An individual located at any point on the outer boundary of the low population zone, who is exposed to the radioactive cloud resulting from the postulated fission product release (during the entire period of its passage), would not receive a radiation dose in excess of 25 rem TEDE, and (iii) Adequate radiation protection is provided to permit access to and occupancy of the control room under accident conditions without personnel receiving radiation exposures in excess of 5 rem TEDE for the duration of the accident.

Appendix A to 10 CFR Part 50, GDC 19, requires, in part, that the control room be maintained in a safe, habitable condition under accident conditions by providing adequate protection from a dose that would not exceed 5 rem TEDE for the duration of the accident.

SRP 15.0.1, states, in part that:

The models, assumptions, and parameter inputs used by the licensee should be reviewed to ensure that the conservative design basis assumptions outlined in RG [regulatory guide] -1.183 have been incorporated. These assumptions provide an integrated approach to performing the individual analyses and licensees are generally expected to use these assumptions or to propose acceptable alternatives. Licensee-proposed alternatives to this guidance may be accepted if technically appropriate and of an appropriate level of conservatism. Significant departures from this guidance will warrant additional review.

RAI 4:

In Attachment 1, page 5 of the LAR the licensee states:

The 20-group probabilistic distribution methodology has been previously approved at Clinton (Reference 10), Limerick (Reference 11), and LaSalle (Reference 12) [Adams Accession Nos. ML052570461, ML062210214, and ML101750625, respectively].

The NRC staff notes that the cited precedents included a ruptured main steam line (MSL) to maximize the dose consequences from MSIV leakage. Appendix A of AEB-98-03 included this assumption as shown below:

The staff's well-mixed deposition model assumes that each segment of piping in the RADTRAD nodalization is well-mixed. The unbroken main steam lines in the RADTRAD nodalization are modeled as two segments. The first segment is the length of piping between the reactor vessel and the first MSIV. The second segment is the length of piping between the first MSIV and the second MSIV. The broken main steam line is modeled as one segment of piping. This segment is the length of piping between the first MSIV and the second MSIV.

The licensee addressed this issue in Attachment 1, page 8 of the LAR which states:

All MSLs in the MSIV leakage release pathways are seismically designed and supported to withstand the Safe Shutdown Earthquake (SSE) and thereby comply with RG 1.183, Appendix A, Section 6.5 requirement. The recirculation line break is the limiting event for fuel failure. It is not credible to assume two initiating limiting events, a recirculation line break and a break on the main steam line in a single design basis event.

All four MSL headers are Seismic I and QA Cat 1 from the RPV nozzle to seismic boundary break at the TSV [turbine stop valve]; therefore, they are qualified to withstand the SSE, and they comply with the RG 1.183, Appendix A, Section 6.5 requirement to be credited for aerosol deposition. Therefore, the MSIV leakage pathway boundary is extended up to the TSV.

The NRC notes that while it is true that mechanistically a recirculation line break would be expected to present a more significant challenge to the reactor core than a ruptured MSL, the source term used to satisfy 10 CFR 50.67 is a deterministic source term imposed on the facility to test the ability of systems to mitigate the releases sufficiently to meet predetermined acceptance criteria. Assuming a ruptured MSL in the evaluation of the acceptability of MSIV leakage criteria fulfills the underlying guidance from RG 1.183 that assumptions should be selected with the objective of maximizing the postulated radiological consequences.

The NRC staff notes that the integrity of the entire reactor coolant pressure boundary must comply with SSE requirements to satisfy Appendix A to Part 100. The assumption of a ruptured MSL for evaluating MSIV leakage in conjunction with a deterministic source does not imply a ruptured MSL in addition to a recirculation line rupture. Rather the evaluation assumes a ruptured MSL (with a deterministic source term) to maximize the dose contribution from MSIV leakage.

Please provide additional information to justify that assuming a recirculation line rupture instead of a main steam line rupture is consistent with the guidance from RG 1.183 that assumptions should be selected with the objective of maximizing the postulated radiological consequences.

Exelon Response to RAI 4

The main steam line (MSL) model in the main body of the AST LOCA analysis, H21C-106, Revision 4 (Enclosure), conservatively only models MSLs "A" and "D", which are the two shortest MSLs, and models 100 scfh MSIV leakage through each line. To address this RAI, a sensitivity was added to H21C-106, Revision 4 (Attachment 13.19) in which all four MSLs were modelled to quantify the impact of assuming an MSL break on offsite and control room doses. Due to the RADTRAD code limit of ten (10) control volumes, each MSL "A", "B", "C", and "D" was modelled in separate RADTRAD runs. The MSLs were modelled with three nodes; one from the reactor pressure vessel to the inboard MSIV, one for the volume between the MSIVs, and one for the volume between the outboard MSIV and the turbine stop valves. It was assumed that MSL "A" has a line break inside containment and a failed inboard MSIV. As a result, there was no credit taken for holdup (volume set to arbitrary small value in RADTRAD for this compartment) or aerosol iodine deposition in the line segment from the RPV nozzle to the inboard MSIV for the broken MSL. The flow in each of the four main steam lines was assumed to be 50 scfh in accordance with the proposed Technical Specification Surveillance Requirement 3.6.1.3.12. No other changes were made to the model or methodology described in the main body of H21C-106, Revision 4.

With these model changes, the resulting offsite and control room doses for the MSIV leakage contributor to the total dose are shown in Table RAI-4a. These results demonstrate that the current dose consequences based on modelling two steam lines without a steam line break are conservative compared to modelling all four MSLs with one line assumed to be broken inside containment.

Table RAI-4a: NMP2 Post-LOCA - Total MSIV Leak Rate of 200 scfh

Post-LOCA Release Pathway	Post-LOCA TEDE Dose (Rem) EAB	Post-LOCA TEDE Dose (Rem) LPZ	Post-LOCA TEDE Dose (Rem) CR
MSIV Leakage (Base Case)	0.14	0.18	0.62

MSL Break Sensitivity			
MSIV A (MSLB)	0.042	0.051	0.178
MSIV B Leakage	0.012	0.021	0.075
MSIV C Leakage	0.012	0.021	0.074
MSIV D Leakage	0.013	0.022	0.078
Total	0.08	0.11	0.40

A separate sensitivity, also documented in H21C-106, Revision 4, Attachment 13.19, was performed based on the same methodology as described above except the break is assumed to be in MSL "B" rather than MSL "A". The results of this case are essentially the same as the dose consequences assuming a break in MSL "A" as shown in Table RAI-4b, indicating that the dose is insensitive to which line is assumed to be broken.

Table RAI-4b: MSL "B" Break Sensitivity

MSL Break Sensitivity			
MSIV A Leakage	0.013	0.022	0.078
MSIV B (MSLB)	0.041	0.050	0.173
MSIV C Leakage	0.012	0.021	0.074
MSIV D Leakage	0.013	0.022	0.078
Total	0.08	0.11	0.40

RAI 5:

The LAR discusses the licensee's review of various NRC AST safety evaluation (SE) and how these SEs identified the staff's concern with how much deposition is assumed in the LOCA MSIV leakage pathways when using the AEB-98-03 model, "Assessment of the Radiological Consequences for the Perry Pilot Plant Application Using the Revised (NUREG-1465) Source Term," dated December 9, 1998 (ADAMS Accession No. ML011230531).

In the NRC staff's SE dated May 29, 2008 (ADAMS Accession No. ML081230439), to approve Exelon's full implementation of the AST methodology for Nine Mile Point 2, the NRC staff indicated that it had concerns regarding the use of AEB 98-03. At that time, the NRC staff based its approval of the LAR, in part, upon additional conservatism in the deposition model used. Specifically, the SE, in part, states:

However, for additional conservatism, and to address [NRC] concerns historically documented by the NRC staff, the licensee used [1/2 of] the 3rd percentile settling velocity of 0.000066 m/sec. The NRC staff agrees that the 3rd percentile conservatively reflects the effectiveness of drywell spray activity removal in containment upstream of this pathway.

The NRC staff notes that the current licensing basis for Nine Mile Point 2 provided in the supporting calculation previously transmitted to the NRC (see Calculation No. H21C-106, Revision 0 (ADAMS Accession No. ML071580354)), page C2 indicates that ½ of the 3rd percentile is equivalent to the settling velocity of 0.000066 m/sec.

In Attachment 1, page 5 of the LAR the licensee states:

The revised LOCA dose analysis implements a 20-group probabilistic settling velocity distribution for MSIV leakage rather than using the AEB-98-03 single, median value, model. The 20-group probabilistic distribution methodology has been previously approved at Clinton (Reference 10), Limerick (Reference 11), and LaSalle (Reference 12). The same settling velocity probability distribution function shown in Equation 5 of AEB-98-03 is used to conservatively calculate aerosol settling velocity as follows [...]

The NRC staff notes that the analyses cited as precedents did not credit drywell sprays. Page 96 of NUREG/CR-5966, "A Simplified Model of Aerosol Removal by Containment Sprays," (ADAMS Accession No. ML063480542), provides details on how sprays impact aerosols. NUREG/CR-5966 indicates that the sprays shift the sizes of aerosols in the containment

towards those that are removed most slowly (the mean aerosol size decreases as the sprays operate). The licensee's estimates of aerosol deposition in the steam lines is determined using, in part Equation 5 of AEB 98-03. Equation 5 of AEB 98-03 provides the aerosol settling (and thus the aerosol deposition) in the steam line and indicates that the aerosol settling is proportional to the square of the diameter of the aerosols. Because the sprays shift the size of the aerosols to smaller sizes, the aerosols settling in the steam lines would decrease due to these smaller diameter aerosols.

In the 2007 Nine Mile Point 2 LAR to incorporate 10 CFR 50.67 into the Nine Mile Point 2 licensing basis, Calculation H21C-106, Revision 0, page C1 discusses a "penalty" on the sedimentation velocity (or aerosol settling velocity) used for bypass pathways to account for the recognition that the sprays preferentially remove large particles in primary containment.

As discussed in Nine Mile Point 2's safety evaluation dated May 29, 2008, the NRC staff stated that they had issues with the use of AEB 98-03 for modeling aerosol deposition for Nine Mile Point 2. In this safety evaluation the staff stated that the licensee used a settling velocity of 0.000066 m/sec to address the staff's issues regarding the use of AEB 98-03 and that this value was sufficiently conservative (along with other conservatisms) to reflect the effectiveness of the sprays.

From an examination of the submitted information it appears that the licensee considers the aerosol removal by sprays and aerosol removal in the main steam lines as independent removal mechanisms. The NRC staff notes that regardless of the specific removal mechanisms involved, larger aerosol particles in the containment atmosphere will be the preferentially removed therefore making subsequent removal by deposition in downstream piping more challenging.

Based upon the above observations, it is unclear: 1) why assuming that the aerosol deposition in the steam line is independent of the RHR drywell spray credit, and 2) how input parameters to the 20-group method reflect changing aerosol characteristic due to the drywell sprays.

Please provide technical information to:

- a) Describe how the gravitational settling credited in the main steam lines, using the 20-group method, considers the changing aerosol characteristics (i.e., aerosol size and density distributions) due to the sprays and as these aerosols move through the main steam lines.
- b) Explain why the results of the 20-group method when crediting sprays are valid for Nine Mile Point 2.

Exelon Response to RAI 5

The Nine Mile Point 2 current licensing basis (CLB) includes several specific conservatisms included in the LOCA dose consequence assessment that were credited as part of the approval of the Alternate Source Term (AST) amendment, whose design basis was provided by H21C-106, Revision 2. Regulatory Guide (RG) 1.183, "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Plants" defines AST as a fission product release from the reactor core into the containment (more specifically in the drywell for BWRs). As indicated in Appendix A to RG 1.183, Regulatory Position 6.1, the NRC accepts the

practice of treating fission product concentration in the drywell as representative of that available for release via the MSIV leakage pathway.

Both the CLB and the revised LOCA AST dose analysis assume the drywell is the source of MSIV leakage in accordance with the NRC guidance summarized above, so it is appropriate to consider radionuclide removal mechanisms in the drywell before release via the MSIV leakage pathway. A sensitivity analysis was performed to evaluate the impact of sprays on the aerosol settling velocity and to identify other inputs with well-defined uncertainty or conservatism that could be used to offset the uncertainty associated with the current aerosol deposition model. This sensitivity analysis concludes that conservatism associated with modelling the total MSIV leakage as split between two lines as opposed to split evenly among all four (4) lines with an assumed break in an MSL (to address RAI-4 above) approximately offsets the uncertainty introduced by the drywell spray effects on the aerosol deposition model. Other conservatisms explicitly evaluated in the sensitivity analysis are discussed below.

In order to address the reduced aerosol removal rates due to drywell spray, sensitivity cases on various conservatisms were evaluated. Some of the inherent conservatisms in the AST LOCA model are listed below. This list is not a complete list of every conservatism that may be present. However, these conservatisms are ones that are reasonable to define and model deterministically.

- Credit full drywell spray lambdas, including continued credit for spray removal of aerosols after Decontamination Factor (DF) of 50 is reached (not included in this study)
- Credit for plateout and deposition in drywell (not included in this study)
- Inclusion of all four main steam lines for holdup and deposition with flow split evenly among all four (4) lines as allowed by the proposed Technical Specification Surveillance Requirement 3.6.1.3.12.
- More realistic control room operator breathing rate
- Aerosol impaction on the first closed MSIV
- Condenser holdup and deposition

There are other significant conservatisms associated with the AST LOCA model. For example, control room atmospheric dispersion factors have readily defined uncertainty distributions and if incorporated would demonstrate there is a substantial amount of margin in the associated input parameters. However, for simplicity, the distribution of potential values for such input parameters were not evaluated in the sensitivity study.

Nodalization Changes

The sensitivity analysis modified the nodalization of the main steam line to overcome limitations of the RADTRAD code. The H21C-106, Revision 4 MSL nodalization described in the main body was modified to separately model each of the four main steam lines as shown in Figure RAI-5b. As a result, each sensitivity case includes four RADTRAD models, one for each line with three well-mixed nodes per line. In the sensitivity analysis, MSL "A" is assumed to be broken and the MSIV leakage is assumed to be equally distributed among all four (4) MSLs. This modelling is consistent with the nodalization used in the H21C-106, Revision 4, Attachment 13.19 sensitivity cases created as part of the response to RAI-4.

Impact of Spray on Aerosol Settling Velocity

A simplified model was developed using first principles as identified in NUREG/CR-5966, "A Simplified Model of Aerosol Removal by Containment Sprays." Specifically, the ordinary differential equation shown on page 1 of NUREG/CR-5966 was solved to provide an analytical solution of the suspended aerosol mass in the drywell. The spray removal rate in this simplified model is the same as that identified in H21C-106 Section 2.1.3.2 and RG 1.183, Appendix A, Section 3.3. Since sprays will remove aerosols at different rates depending on their particle size, the spray removal rate is adjusted by collection efficiency variation as provided in Figure 19 of NUREG/CR-5966. The suspended aerosol mass was solved from the beginning of the accident through the termination of the removal of aerosols by drywell sprays at 2.25 hours for 20 distinct particle size groups. The mass of particles in each group is defined by the probability distribution associated with the source distribution.

The size distribution of the particles released from the fuel was assumed to be log-normal with a 2-micron Aerodynamic Mass Median Diameter (AMMD) (0.473 micron geometric mean diameter) with a Geometric Standard Deviation (GSD) of 2. The aerosol mass was calculated for each group independently with no consideration of particles interacting with one another. Therefore, agglomeration is not accounted for, and this conservatism will artificially and permanently lower the average particle size as large particles are removed and not replaced. The result is a smaller gravitational settling velocity and spray removal rate. Table RAI-5a summarizes the results of the 20-group particle size distribution in the drywell. Figure RAI-5a visually illustrates the time-dependent nature of the aerosol particle size distribution. As shown in Figure RAI-5a, the effect of the drywell spray in reducing the size of the particles is accounted for in the model.

These particle size and settling velocity distributions were then used to recalculate the aerosol removal rate using the equations provided in Section 2.3.1.1 of H21C-106. The resulting aerosol removal factors are summarized in Table RAI-5d. The aerosol removal factors, including spray, combined with the nodalization adjustments described in the previous section, are represented by the "Base Sensitivity Case" row in Table RAI-5e.

Breathing Rate Sensitivity

H21C-106 uses a constant control room operator breathing rate consistent with the value given in RG 1.183 ($3.5\text{E-}4 \text{ m}^3/\text{sec}$). However, a review of breathing rate data in Table 6-17 of EPA/600/R-09/052F, "Exposure Factors Handbook: 2011 Edition," indicates that the RG 1.183 value is conservative. To evaluate the sensitivity of the dose result to the assumed breathing rate, the rate is adjusted. For the first 2 hours, the CLB breathing rate assumption from RG 1.183 was retained for conservatism. However, after 2 hours the breathing rate was reduced using the 95th percentile data for light intensity work typical of control room operator activity from the EPA handbook ($3.28\text{E-}4 \text{ m}^3/\text{sec}$ from 2 to 12 hours and $3.06\text{E-}4 \text{ m}^3/\text{sec}$ from 12 hours to 30 days).

Aerosol MSIV Impaction Sensitivity

The Nine Mile Point Unit 1 AST LOCA licensing basis described in H21C092 (ADAMS Accession No. ML070110240) credits the phenomenon of impaction at the first closed MSIV. In this scenario, some of the travelling aerosol particles will be deposited on the MSIV sealing surface as the aerosols entrained with the carrier gas pass through the closed MSIV. Nine Mile Point Unit 1 conservatively determined this impaction results in a DF of 2, which is modelled as

a 50% filter in the transfer pathway through the first closed MSIV. This reduction is only accounted for once in each main steam line. This approach was previously approved for Nine Mile Point Unit 1 (ADAMS Accession No. ML073230597) and is reasonable given that the aerosol settling rates calculated in this sensitivity analysis are conservatively low and are lower than those used in the Nine Mile Point Unit 1 analysis.

Condenser Holdup and Aerosol Deposition Sensitivity

A further conservatism that is not currently modelled in H21C-106 is the holdup and aerosol deposition provided by the condenser. Depending on the event scenario, multiple pathways could exist to route activity to the condenser including the drain lines and the turbine itself. In this sensitivity, the leakage is assumed to travel to the condenser through the drain lines from the main steam line piping between the MSIVs. This conservatively neglects any holdup and deposition in the outboard main steam line piping. Modelling the release to the condenser from the piping between the MSIV is consistent with other plants in the Exelon fleet (e.g., LaSalle and Limerick). Operating experience associated with the North Anna earthquake and post-Fukushima evaluations have shown that components and piping systems typically used in this release path are sufficiently rugged to ensure they are capable of performing some level of radioactivity removal during and following a safe shutdown earthquake (SSE). Thus, it is reasonable to assume that the condenser pathway could be made available for mitigating the consequences of MSIV leakage.

The data used to calculate the steam line and condenser aerosol removal rates are provided in Tables RAI-5b and 5c and are consistent with H21C-106, Revision 4.

Individual Sensitivity Cases and Results

A total of seven sensitivity cases were performed by varying the base case. The base case is essentially the H21C-106, Revision 4 model including the MSL nodalization, MSL break of the "A" inboard line, and flow rate distribution adjustments described in Attachment 13.19 (to address RAI-4 above), as well as the revised aerosol removal factors described above. As Table RAI-5e indicates, the seven sensitivity cases are various combinations of the three sensitivities described above (breathing rate, MSIV impaction, and condenser holdup). The sensitivity case results are summarized in Table RAI-5e.

As expected, the base case indicates the conservative modelling of the drywell spray impact on the aerosol removal in the main steam lines without adjusting any other inherent conservatisms in the RADTRAD inputs results in increased doses. Because the MSIV leakage portion of the Control Room dose is only 0.40 rem in the base analysis (H21C-106, Revision 4, Attachment 13.19), the increase (~0.26 rem) due to the revised aerosol removal rates does not increase the Control Room dose above the 5 rem limit. Rather, as the results in Table RAI-5e indicate, the base case doses are within approximately 2% of the previously submitted results (shown as H21C-106 Main Body).

The increase in dose is due to the conservative modelling approach taken to incorporate the effects of the drywell sprays. In order to analyze the effect of drywell spray, simplifications of the aerosol physics were made. As a result, the calculated lambdas are low when compared to values typically seen with high fidelity computer codes. For example, as discussed before, the Nine Mile Point Unit 1 AST licensing basis calculation (ADAMS Accession No. ML070110240) employed a higher fidelity approach and, in general, calculated higher steam line lambdas. As such, the overall decontamination factor for aerosols in this sensitivity analysis is conservatively

lower than what could typically be afforded by a higher fidelity approach. Given this larger conservatism, it is not unusual or unexpected that the calculated doses increased. This under estimation of the aerosol settling also justifies the usage of the aerosol impaction, which is consistent with the Nine Mile Point Unit 1 approval.

The dose increase due to the revised aerosol removal rates is offset by modelling all four main steam lines with 50 scfh of leakage each compared to only two main steam lines with 100 scfh of leakage each as in the main body of H21C-106, Revision 4. The revised main steam line nodalization and flow distribution is enough to offset the offsite dose increases due to the revised aerosol removal rates without crediting any additional margin. The combined effects of the nodalization changes and breathing rate reduction or impaction offset the Control Room dose increase. Crediting the condenser reduces the MSIV leakage contribution to the Control Room dose to approximately 1% of the total dose.

In conclusion, the sensitivity analysis results confirm adequate margin is present in the H21C-106, Revision 4 calculated dose using existing AEB-98-03 aerosol deposition with the 20-group particle size distribution with drywell spray.

Table RAI-5a: Drywell Particle Size Distributions

Group	D _a (micron)	Settling Velocity (m/s)	Cumulative Probability		
			No Spray Release	With Spray	
				During Release	After Release
1	0.091	2.33E-07	0.0001	0.00023	0.00026
2	0.106	3.14E-07	0.003	0.00696	0.00786
3	0.326	3.00E-06	0.01	0.02304	0.02588
4	0.409	4.71E-06	0.03	0.06860	0.07661
5	0.552	8.61E-06	0.05	0.11372	0.12647
6	0.642	1.16E-05	0.08	0.18090	0.20026
7	0.750	1.59E-05	0.1	0.22526	0.24862
8	0.850	2.04E-05	0.15	0.33555	0.36832
9	0.984	2.73E-05	0.2	0.44480	0.48598
10	1.140	3.67E-05	0.25	0.55317	0.60197
11	1.268	4.53E-05	0.3	0.66019	0.71534
12	1.410	5.61E-05	0.35	0.76620	0.82679
13	1.552	6.79E-05	0.4	0.86992	0.93393
14	1.683	7.99E-05	0.45	0.94575	0.99413
15	1.840	9.55E-05	0.5	0.96968	0.99996
16	1.997	1.13E-04	0.6	0.98009	1.00000
17	2.371	1.59E-04	0.7	0.98507	1.00000
18	2.897	2.37E-04	0.8	0.99005	1.00000
19	3.600	3.66E-04	0.9	0.99502	1.00000
20	4.859	6.66E-04	1	1.00000	1.00000

Figure RAI-5a: Time-Dependent Aerosol Particle Size Distribution

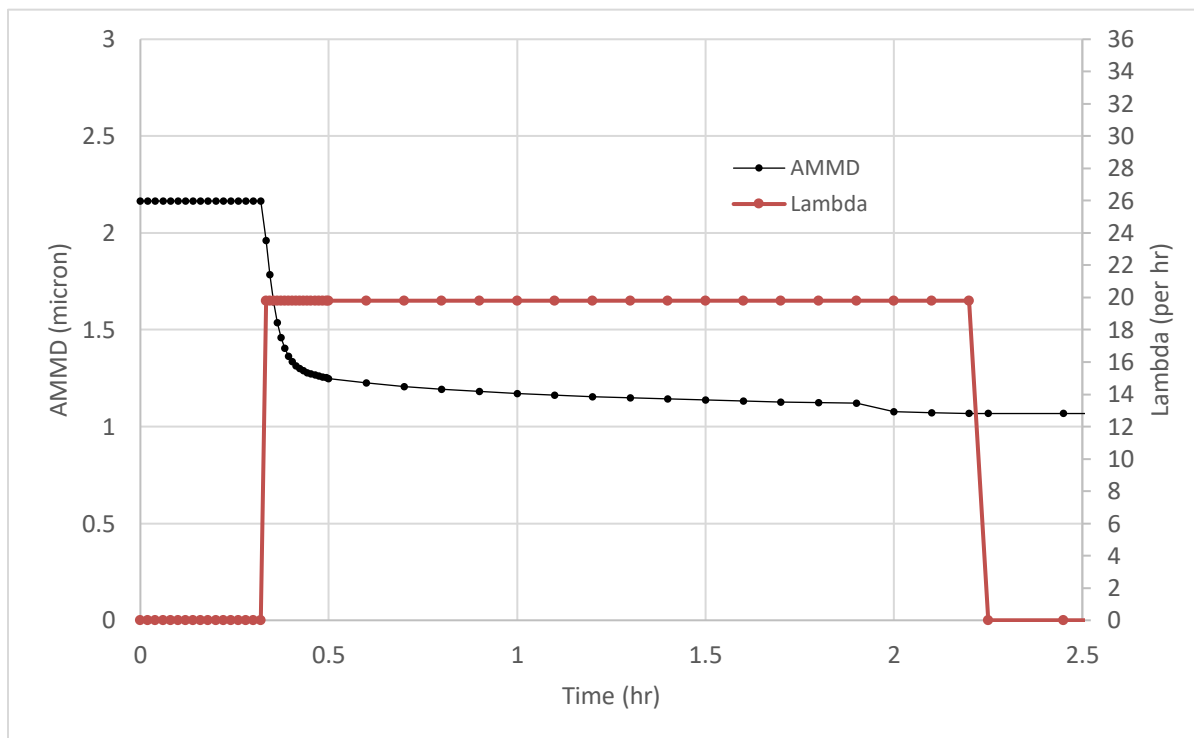


Figure RAI-5b: Modified Nodalization for a Single Steam Line

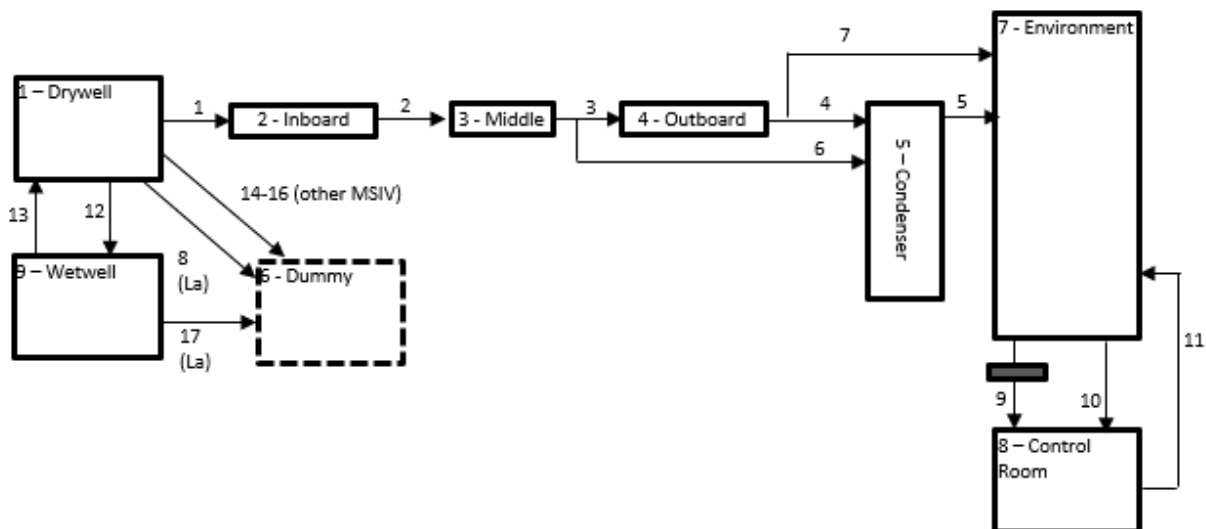


Table RAI-5b: Steam Line and Condenser Geometry Data

Steam Line "A"			
Parameter	Inboard	Between	Outboard
A (ft ²)	77.96	38.65	164.35
V (ft ³)	331.29	59.39	428.41
Steam Line "B"			
Parameter	Inboard	Between	Outboard
A (ft ²)	92.67	42.59	164.43
V (ft ³)	359.56	65.45	428.16
Steam Line "C"			
Parameter	Inboard	Between	Outboard
A (ft ²)	92.84	42.74	164.32
V (ft ³)	359.95	65.69	428.05
Steam Line "D"			
Parameter	Inboard	Between	Outboard
A (ft ²)	78.08	38.56	164.30
V (ft ³)	331.81	59.27	427.76

Parameter	Condenser
A (ft ²)	3327
V (ft ³)	97000

*A is the horizontal settling area of the inside of the pipe and V is the volume.

Table RAI-5c: Steam Line Leak Rate Data

Inboard Flow Rate Q (cfh)				
Time Period	Steam Lines			
	"A"	"B"	"C"	"D"
0 to spray initiation*	N/A	2.03E+01	2.03E+01	2.03E+01
spray initiation* to 2 hr	N/A	2.03E+01	2.03E+01	2.03E+01
2 hr to 24 hr	N/A	2.03E+01	2.03E+01	2.03E+01
24 hr+	N/A	1.01E+01	1.01E+01	1.01E+01

Between Flow Rate Q (cfh)				
Time Period	Steam Lines			
	"A"	"B"	"C"	"D"
0 to spray initiation*	2.03E+01	2.03E+01	2.03E+01	2.03E+01
spray initiation* to 2 hr	2.03E+01	2.03E+01	2.03E+01	2.03E+01
2 hr to 24 hr	2.03E+01	2.03E+01	2.03E+01	2.03E+01
24 hr+	1.01E+01	1.01E+01	1.01E+01	1.01E+01

Outboard Flow Rate Q (cfh)				
Time Period	Steam Lines			
	"A"	"B"	"C"	"D"
0 to spray initiation*	5.00E+01	5.00E+01	5.00E+01	5.00E+01
spray initiation* to 2 hr	5.00E+01	5.00E+01	5.00E+01	5.00E+01
2 hr to 24 hr	5.00E+01	5.00E+01	5.00E+01	5.00E+01
24 hr+	2.50E+01	2.50E+01	2.50E+01	2.50E+01

*Drywell sprays are initiated 20 minutes after the event.

Table RAI-5d: Steam Line and Condenser Aerosol Removal Factors

Inboard Aerosol Deposition λ_s (hr ⁻¹)				
Time Period	Steam Lines			
	"A"	"B"	"C"	"D"
0 to spray initiation*	N/A	0.196	0.196	0.186
spray initiation* to 2 hr	N/A	0.090	0.090	0.084
2 hr to 24 hr	N/A	0.082	0.082	0.076
24 hr+	N/A	0.074	0.074	0.069

Between Aerosol Deposition λ_s (hr ⁻¹)				
Time Period	Steam Lines			
	"A"	"B"	"C"	"D"
0 to spray initiation*	0.610	0.257	0.257	0.274
spray initiation* to 2 hr	0.257	0.174	0.174	0.182
2 hr to 24 hr	0.231	0.165	0.165	0.172
24 hr+	0.212	0.132	0.132	0.138

Outboard Aerosol Deposition λ_s (hr ⁻¹)				
Time Period	Steam Lines			
	"A"	"B"	"C"	"D"
0 to spray initiation*	0.167	0.090	0.089	0.095
spray initiation* to 2 hr	0.110	0.076	0.076	0.079
2 hr to 24 hr	0.104	0.073	0.073	0.076
24 hr+	0.084	0.052	0.052	0.054

Time Period	Condenser λ_s (hr ⁻¹)
0 to spray initiation*	0.01022
spray initiation* to 2 hr	0.00715
2 hr to 24 hr	0.00678
24 hr+	0.00536

*Drywell sprays are initiated 20 minutes after the event.

Table RAI-5e: Sensitivity Study Results

Case		Condenser Credit	Breathing Rate	MSIV Impaction	Dose (rem TEDE)		
Id	Description				Control Room	EAB	LPZ
N/A	H21C-106 Main Body				2.27	1.07	0.91
N/A	H21C-106 Att. 13.19 ¹				2.05	1.01	0.84
S0	Base Sensitivity Case				2.31	1.07	0.89
S1	Sensitivity 1		X		2.20	1.07	0.89
S2	Sensitivity 2			X	2.18	1.04	0.88
S7	Sensitivity 7		X	X	2.09	1.05	0.88
S3	Sensitivity 3	X			1.67	0.93	0.74
S4	Sensitivity 4	X	X		1.61	0.93	0.74
S5	Sensitivity 5	X		X	1.67	0.93	0.74
S6	Sensitivity 6	X	X	X	1.60	0.93	0.74

1 – H21C-106 Attachment 13.19 only presents results for the MSIV leakage cases; the other dose components are assumed to be the same as the main body

RAI 6:

Assumption 6.5 in Appendix A of RG 1.183 provides guidance on an acceptable model for crediting the deposition of elemental iodine in the main steam piping downstream of the MSIVs, and states that the amount of reduction allowed will be evaluated on an individual case basis. Assumption 6.5 references the J.E. Cline model (ADAMS Accession No. ML003683718). On page 10 of Attachment 1 of the LAR it states that the J.E. Cline methodology is used to calculate the time-dependent deposition and resuspension rates of elemental iodine for the MSIV release pathways in the revised LOCA analysis. The LAR proposes to increase the elemental iodine deposition in the steam line which would be expected to decrease the estimated calculated doses from the postulated LOCA.

The J.E. Cline model describes that the steam line temperatures assumed after the postulated LOCA directly impact the amount of elemental deposition credited in the steam line, which in turn, directly impact the estimated calculated doses from the postulated LOCA. As described in Calculation H21C-106, Revision 3, page 55, steam line temperatures are assumed from the J.E. Cline model. No justification for why these steam line temperatures are applicable for Nine Mile Point 2 is provided.

In addition, Attachment 1 of the LAR, page 8, states the steam line piping steel heat-up due to fission product deposition in the steam line is conservatively estimated to be 0.5 degrees Fahrenheit per hour (°F/hr) based upon Reference 14 ("BWR Steam Line Radionuclide Concentration Distribution following a DBA LOCA" (ADAMS Accession No. ML102380174) of the LAR. The NRC staff notes that Reference 14 is not part of the J.E. Cline model or RG 1.183, Revision 0. Therefore, the NRC staff reviewed the assumptions used to derive the estimated heat up in the steam line and the information regarding the steam line temperatures provided in the LAR.

- a) The heat-up values calculated in Reference 14 appear to range between 0.5°F/hr and 2.5°F/hr (see Section 3.2.2, page 32 of the LARs Reference 14) depending upon the assumptions made. No justification is provided on why a heat up rate of 0.5°F /hr is applicable to Nine Mile Point 2. Please provide additional information to justify the use of the heat up rate of 0.5°F /hr.
- b) Per Reference 14 of the LAR, the piping heat up value of 0.5°F/hr is based, in part, upon only the "Group 2" (Cesium Iodide and Rubidium Iodide) radionuclides, however, the LAR credits deposition of a significant amount of other radionuclides (that include almost all the aerosols and a significant amount of the elemental iodine that leaks into the steam lines). It is not clear why only Group 2 radionuclides are considered and not considering the other radionuclides could underestimate the decay heat, steam line temperatures, and estimated doses. Please provide additional information to explain why use of only Group 2 radionuclides does not result in an underestimation of the decay heat, steam line temperatures, and estimated doses.

The value of 0.5°F/hr is based, in part, upon the assumption that a quarter of the deposited power would escape based upon unattenuated gamma radiation. However, it appears that the decay power is based upon the thermal power. No information is provided as to why assuming a quarter of the deposited power is lost, due to gamma radiation, is an appropriate assumption that would result in an accurate heat up rate or estimated doses. Also, the value of 0.5°F/hr is based, in part, upon on the assumption that the amount of Group 2 (i.e., CsI) mass leaked to the environment (via the steam

line pathway) by the end of "the time frame of interest" is about $2.3\text{E-}5$ (as a fraction of core inventory). No justification is provided on the basis of this value and how the "time frame of interest" is defined.

Please provide additional information to:

- i. Explain why assuming a quarter of the deposited power is lost, due to gamma radiation, results in an accurate heat up rate and estimated doses.
 - ii. Clarify how the value of $2.3\text{E-}5$ relates to the deposition in the steam line and state how the "time frame of interest" is defined.
- c) The value of 0.5°F/hr heat up rate assumes that the deposited power would uniformly heat up steam piping that is 5 centimeter (cm) thick. However, the heat up rate would not be uniform because the radionuclides would be deposited on the inner surfaces of the pipe (where the temperatures would be higher than other portions of the pipe). Also, the assumed 5 cm pipe thickness in Reference 14 conflicts with the pipe thickness of 2.5 cm (as shown in Table 3 of the J.E. Cline model) and used to create the steam line temperature profile used by Nine Mile Point 2 in the revised LOCA analysis. No information is provided as to why the Reference 14 assumptions of a uniform heat-up rate and 5 cm pipe thickness appropriately reflect the expected temperatures in the steam line piping when the temperatures in the piping would not be uniform and the temperatures assumed by Nine Mile Point 2 are derived upon different main steam pipe thicknesses. Please provide additional information to justify the assumption of a uniform heat up rate and a 5 cm pipe thickness.
- d) In Attachment 1, page 8, the rise in steam line temperature (due only to fission product deposition) during the accident period of 720 hours is 360°F (assuming no radioactive decay and heat loss). However, it appears that in Table 5 of Calculation H21C-106, Revision 3, the steam line temperature used to determine the revised elemental deposition is decreasing. Using the equation on page 56 of Calculation H21C-106, Revision 3, the steam line temperature would continue to be about 80°F at 720 hours which is below the temperature rise value of 360°F due to only deposition.

Calculation H21C-106, Revision 3, page 21, states that:

The inboard piping is connected to the RPV [reactor pressure vessel] and subjected to achieve the temperature the same as the RPV dome prior to water being restored around 1 hr. Preliminary results using MAAP for Quad Cities indicates that the temperatures in the RPV head may briefly spike over 700°F but then fall below 600°F . The temperature in the first MSL [main steam line] node also exceeds 600°F in a few cases for short duration, but generally stays below 600°F . In the worst case the temperature transient in the inboard piping may last less than an hour that may potentially impact the aerosol physics and plateout mechanism, which may affect the aerosol removal credited in the analysis.

As discussed above, the steam line temperatures impact the amount of elemental deposition, thereby, impacting the doses. The temperature profile used for calculating the elemental deposition in the revised LOCA analysis does reflect any increasing

steam line temperatures as indicated in Reference 14. Not considering these increases in steam line temperature would underestimate the dose results.

Please provide additional information to justify use of:

- i. the steam line temperature profile proposed in the LAR is applicable to Nine Mile Point 2,
- ii. the Reference 14 analysis are correct and applicable to Nine Mile Point 2,
- iii. the preliminary MAPP results for Quad Cities are appropriate for design basis calculations for Nine Mile Point 2.

Exelon Response to RAI 6

H21C-106, Revision 3 credited time-dependent elemental iodine removal in the main steam lines using the J.E. Cline model and associated predicted steam line temperatures as a function of time. As discussed in the NRC public meeting on April 9, 2020, to address this RAI, instead of using the J.E. Cline model to determine the main steam line elemental iodine removal, H21C-106, Revision 4 implements a constant 50% elemental iodine removal efficiency in the main steam lines. This is consistent with the Nine Mile Point 2 current licensing basis (CLB), H21C-106, Revision 2, which was previously approved by the NRC. This methodology is not temperature or time-dependent and conservatively was only based on credited deposition in the piping between the MSIVs for each main steam line. Specifically, the time-dependent removal efficiencies in the well-mixed nodes of each main steam line in H21C-106, Revision 3 are replaced with a 50% filter on elemental iodine in a single pathway for each modelled steam line.

Other bypass leakage pathways from the wetwell and drywell are also included in the Nine Mile Point Unit 2 licensing basis. In the H21C-106, Revision 3 models submitted with the LAR, the most limiting time-dependent elemental iodine removal calculated for the steam line segments was applied to the wetwell and drywell bypass leakage pathways. Like the main steam line changes described previously, the other drywell and wetwell bypass leakage pathways are modified in H21C-106, Revision 4 to model a constant 50% elemental iodine removal, consistent with the CLB.

Additionally, discussion in Section 2.3.1.2 of H21C-106, Revision 3 related to the heatup of the main steam lines, and the associated justification of inadequate conditions for aerosol re-vaporization, is removed from the calculation. This discussion included the J.E. Cline (Reference 14 from the LAR) analysis and preliminary MAAP results for Quad Cities to justify a bounding heatup in the main steam lines. However, not considering aerosol re-vaporization due to potential main steam line heatup is consistent with the approved AEB-98-03 methodology for aerosol deposition used in the CLB analysis. As such, the references discussed in this RAI have been removed from the analysis and will not be part of the basis for aerosol behavior at Nine Mile Point Unit 2, consistent with what is already approved for Nine Mile Point Unit 2.

ATTACHMENT 2

License Amendment Request

Nine Mile Point Nuclear Station Unit 2

Docket No. 50-410

Supplemental Information

SUPPLEMENTAL INFORMATION

Response to Request for Additional Information
Increase Allowable MSIV Leakage Rates

The implementation period identified in Reference 1 is revised as follows:

The amendment will be implemented within 60 days following NRC approval.

ENCLOSURE

License Amendment Request

Nine Mile Point Nuclear Station Unit 2

Docket No. 50-410




H21C-106, Revision 4, "Unit 2 LOCA w/LOOP, AST Methodology"

(Total pages 1438)

CC-AA-309-1001-F-01

Revision 0

Design Analysis Cover Sheet Form

Design Analysis		Last Page No. 1438⁶	
Analysis No.: ¹	H21C-106	Revision: ²	4 Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/>
Title: ³	Unit 2 LOCA w/LOOP, AST Methodology		
EC No.: ⁴	ECP-18-000616	Revision: ⁵	0
Station(s): ⁷	NMP	Component(s): ¹⁴	
Unit No.: ⁸	2		
Discipline: ⁹	NUDC		
Descrip. Code/Keyword: ¹⁰	AST		
Safety/QA Class: ¹¹	SR		
System Code: ¹²	N/A		
Structure: ¹³	N/A		
CONTROLLED DOCUMENT REFERENCES ¹⁵			
Document No.:	From/To	Document No.:	From/To
Refer to References in Section 9.0	From		
USAR Ch. 15.6	To		
PR-C-27-S	To		
H21C105	To		
Is this Design Analysis Safeguards Information? ¹⁶		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, see SY-AA-101-106
Does this Design Analysis contain Unverified Assumptions? ¹⁷		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, ATI/AR#:
This Design Analysis SUPERCEDES: ¹⁸		H21C-106, Revision 3	in its entirety.
Description of Revision (list changed pages when all pages of original analysis were not changed): ¹⁹			
Revision incorporates responses to NRC requests for additional information. See Revision Page Index (page 5) for changed pages.			
Preparer: ²⁰	Marvin Morris (ENERCON)		4/30/2020
	Print Name	Sign Name	Date
Method of Review: ²¹	Detailed Review <input checked="" type="checkbox"/>	Alternate Calculations (attached) <input type="checkbox"/>	Testing <input type="checkbox"/>
Reviewer: ²²	Sam Lafountain (ENERCON)	Sam Lafountain	4/30/2020
	Print Name	Sign Name	Date
Review Notes: ²³	Independent review <input checked="" type="checkbox"/>	Peer review <input type="checkbox"/>	
The document has been reviewed in its entirety and found to be acceptable. All recommended changes were minor in nature, having been discussed, accepted, and incorporated into the final document			
(For External Analyses Only) External Approver: ²⁴			5/1/2020
	Jared Monroe (ENERCON)	Digitally signed by Jared Monroe Date: 2020.05.01 11:20:36 -04'00'	Sign Name
Exelon Reviewer: ²⁵	Annie Wong	Wong, Annie W.	5/4/2020
	Print Name	Sign Name	Date
Independent 3rd Party Review Req'd? ²⁶		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Exelon Approver: ²⁷	John Massari		14:09:18 -04'00'
	Print Name	Sign Name	Date

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CC-AA-103-1003

Revision 14

Attachment 2
Owner's Acceptance Review checklist for External Design Analysis
Page 1 of 3

Design Analysis No.: H21C-106Rev: 4Contract #: 00597114Release #: 00151

No	Question	Instructions and Guidance	Yes / No / N/A
1	Do assumptions have sufficient documented rationale?	<p>All Assumptions should be stated in clear terms with enough justification to confirm that the assumption is conservative.</p> <p>For example, 1) the exact value of a particular parameter may not be known or that parameter may be known to vary over the range of conditions covered by the Calculation. It is appropriate to represent or bound the parameter with an assumed value. 2) The predicted performance of a specific piece of equipment in lieu of actual test data. It is appropriate to use the documented opinion/position of a recognized expert on that equipment to represent predicted equipment performance.</p> <p>Consideration should also be given as to any qualification testing that may be needed to validate the Assumptions. Ask yourself, would you provide more justification if you were performing this analysis? If yes, the rationale is likely incomplete.</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2	Are assumptions compatible with the way the plant is operated and with the licensing basis?	Ensure the documentation for source and rationale for the assumption supports the way the plant is currently or will be operated post change and they are not in conflict with any design parameters. If the Analysis purpose is to establish a new licensing basis, this question can be answered yes, if the assumption supports that new basis.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3	Do all unverified assumptions have a tracking and closure mechanism in place?	If there are unverified assumptions without a tracking mechanism indicated, then create the tracking item either through an ATI or a work order attached to the implementing WO. Due dates for these actions need to support verification prior to the analysis becoming operational or the resultant plant change being op authorized.	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
4	Do the design inputs have sufficient rationale?	The origin of the input, or the source should be identified and be readily retrievable within Exelon's documentation system. If not, then the source should be attached to the analysis. Ask yourself, would you provide more justification if you were performing this analysis? If yes, the rationale is likely incomplete.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5	Are design inputs correct and reasonable with critical parameters identified, if appropriate?	The expectation is that an Exelon Engineer should be able to clearly understand which input parameters are critical to the outcome of the analysis. That is, what is the impact of a change in the parameter to the results of the analysis? If the impact is large, then that parameter is critical.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6	Are design inputs compatible with the way the plant is operated and with the licensing basis?	Ensure the documentation for source and rationale for the inputs supports the way the plant is currently or will be operated post change and they are not in conflict with any design parameters.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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CC-AA-103-1003

Revision 14

Attachment 2
Owner's Acceptance Review checklist for External Design Analysis
Page 2 of 3

Design Analysis No.: H21C-106Rev: 4

No	Question	Instructions and Guidance	Yes / No / N/A
7	Are Engineering Judgments clearly documented and justified?	See Section 2.13 in CC-AA-309 for the attributes that are sufficient to justify Engineering Judgment. Ask yourself, would you provide more justification if you were performing this analysis? If yes, the rationale is likely incomplete.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
8	Are Engineering Judgments compatible with the way the plant is operated and with the licensing basis?	Ensure the justification for the engineering judgment supports the way the plant is currently or will be operated post change and is not in conflict with any design parameters. If the Analysis purpose is to establish a new licensing basis, then this question can be answered yes, if the judgment supports that new basis.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
9	Do the results and conclusions satisfy the purpose and objective of the Design Analysis?	Why was the analysis being performed? Does the stated purpose match the expectation from Exelon on the proposed application of the results? If yes, then the analysis meets the needs of the contract.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
10	Are the results and conclusions compatible with the way the plant is operated and with the licensing basis?	Make sure that the results support the UFSAR defined system design and operating conditions, or they support a proposed change to those conditions. If the analysis supports a change, are all of the other changing documents included on the cover sheet as impacted documents?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
11	Have any limitations on the use of the results been identified and transmitted to the appropriate organizations?	Does the analysis support a temporary condition or procedure change? Make sure that any other documents needing to be updated are included and clearly delineated in the design analysis. Make sure that the cover sheet includes the other documents where the results of this analysis provide the input.	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
12	Have margin impacts been identified and documented appropriately for any negative impacts (Reference ER-AA-2007)?	Make sure that the impacts to margin are clearly shown within the body of the analysis. If the analysis results in reduced margins ensure that this has been appropriately dispositioned in the EC being used to issue the analysis.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
13	Does the Design Analysis include the applicable design basis documentation?	Are there sufficient documents included to support the sources of input, and other reference material that is not readily retrievable in Exelon controlled Documents?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
14	Have all affected design analyses been documented on the Affected Documents List (ADL) for the associated Configuration Change?	Determine if sufficient searches have been performed to identify any related analyses that need to be revised along with the base analysis. It may be necessary to perform some basic searches to validate this.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
15	Do the sources of inputs and analysis methodology used meet committed technical and regulatory requirements?	Compare any referenced codes and standards to the current design basis and ensure that any differences are reconciled. If the input sources or analysis methodology are based on an out-of-date methodology or code, additional reconciliation may be required if the site has since committed to a more recent code	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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CC-AA-103-1003

Revision 14

Attachment 2
Owner's Acceptance Review checklist for External Design Analysis
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Design Analysis No.: H21C-106**Rev: 4**

No	Question	Instructions and Guidance	Yes / No / N/A
16	Have vendor supporting technical documents and references (including GE DRFs) been reviewed when necessary?	Based on the risk assessment performed during the pre-job brief for the analysis (per HU-AA-1212), ensure that sufficient reviews of any supporting documents not provided with the final analysis are performed.	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
17	Do operational limits support assumptions and inputs?	Ensure the Tech Specs, Operating Procedures, etc. contain operational limits that support the analysis assumptions and inputs.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
18.	List the critical characteristics of the product and validate those critical characteristics. Input and assumption changes support RAI responses		

Create an SFMS entry as required by CC-AA-4008. SFMS Number: 68039

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REVISION HISTORY

Revision	Revision Description
0	Original Issue
1	Revision to add Appendix J
2	Revision to Appendix J and adds Appendices K, L and M
3	<p>This revision evaluates the post-LOCA doses due to two increased MSIV leak rate criteria of 400 scfh & 200 scfh by:</p> <ol style="list-style-type: none"> 1. Using additional CR dose margin. 2. Crediting the seismically supported inboard MSL piping and piping between outboard MSIV and TSV. 3. Using a 20-group probabilistic distribution of settling velocity, and total effective aerosol removal efficiency (TEARE). 4. Eliminating the holdup times in the MSIV & system bypass leakage pathways. 5. Limiting the DW spray operation up to DF cutoff times of elemental & aerosol iodine. 6. Using the time-dependent elemental iodine removal efficiency. 7. Using two nodes of well mixed volumes in both MSIV leakage pathways - MSIV failed and intact MSLs. <p>This is a major revision, which is completely re-written.</p>
4	<p>This revision provides an evaluation of NRC RAIs 4, 5, and 6. RAIs 4 and 5 are addressed in Attachments 13.19 and 13.20, respectively. RAI 6 is incorporated into the main body of the calculation by eliminating the use of the time dependent main steam line elemental iodine removal efficiency. Another change is the elimination of the 400 scfh MSIV leakage rate case.</p>

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1.0 PURPOSE

The purpose of this calculation is to evaluate the post-LOCA Exclusion Area Boundary (EAB), Low Population Zone (LPZ), and Control Room (CR) doses for the Nine Mile Point Unit 2 (NMP2) using the increased Core Average Exposure (CAVEX) inventory, as-built reasonably conservative design inputs and assumptions, a total MSIV leak rate criteria of 200 scfh, the Alternative Source Term (AST) methodology, the guidance in Regulatory Guide (RG) 1.183 and Regulatory Issue Summary (RIS) 2006-04, and Total Effective Dose Equivalent (TEDE) dose criteria.

This calculation is performed in a reasonably conservative manner for the following design basis post-LOCA release paths:

1. Containment Leakage + Traversing In-core Probe (TIP) Leakage (included as 0.12 volume % per day, based on the drywell free air volume)
2. Engineered Safety Feature (ESF) Leakage
3. Main Steam Isolation Valve (MSIV) & System Bypass Leakages

NMP2 received an NRC Safety Evaluation Report (SER) for license amendment 125 (Ref. 9.26.1) approving the adoption of Alternative Source Term (AST) methodology to be used for design basis accidents and implemented an Extended Power Uprate (Ref. 9.26.2). The AST LOCA analysis that supported the AST license amendment was performed in a very conservative manner with a large CR dose margin of 3.35 rem TEDE. Exelon learned that the excessive conservatism in the analyses need to be reduced to a reasonably acceptable level and the excessive CR dose margin needs to be prudently utilized to improve the plant operational flexibility and simultaneously reduce the expensive maintenance costs of repairing the MSIVs during a refueling outage. The conservatism in the design inputs are either added, multiplied, or compounded based on their interactions with each other within a given time domain to render the given CR dose margin. Therefore the Current Licensing Basis (CLB) analysis is revised to effectively allocate the CR dose margin and reduce excessive conservatism to optimize the MSIV leak rates to reduce MSIV repair costs to operate the plant safely and economically while still maintaining the adequate CR dose margin to comply with the underlying regulations. The MSIV leak rate criteria (200 scfh total), is conservatively analyzed in the following sections. The total MSIV leak rate criterion of 200 scfh and resulting dose consequences in Section 8.1 will support the current NMP2 MSIV leak rate Technical Specification (TS) amendment.

The maintenance costs to repair the MSIVs are increasing from outage to outage. Therefore, the allowable MSIV leak rates established in the CLB analysis are optimized safely and prudently adopting the following changes:

1. Optimizing and effectively utilizing the CR dose margin of 3.35 rem TEDE in the CLB LOCA analysis.
2. Crediting QA Category 1 main steam piping (MSP) seismically designed and supported to withstand safe shutdown earthquake (SSE) that qualified them to be used for aerosol removal per RG 1.183, Appendix A, Section 6.5. The inboard MSP segments and those between the outboard and turbine stop valve (TSV) are credited for aerosol deposition (see Figure 3).
3. Using the 20-Group probabilistic distributions of settling velocities and total effective aerosol removal efficiencies (TEARE) for the MSIV leakage pathways to address the NRC potential concern about the use of the higher settling velocity for a large range of aerosol particle size that over estimates aerosol deposition. The CLB uses 3rd percentile aerosol settling velocity.
4. Using two (2) nodes of well mixed volumes in both MSIV leakage pathways eliminated the multiple in-series node configuration, which over-estimated the removal of aerosols in bypass

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leakage pathways. Instead, the CLB analysis uses no aerosol deposition in the MSIV failed line and aerosol deposition in main steam line (MSL) between the MSIVs for intact line.

- Using the lessons learned from the NRC acceptance of the Exelon BWR fleet and other Industry BWR AST license amendments.

This analysis continued maintaining the following existing conservatisms and regulatory compliance in the CLB analysis:

- The containment and MSIV leakages are reduced after 24 hrs but conservatively the flow rate reduction is not credited in the determination of aerosol deposition.
- The aerosol natural deposition in the drywell is conservatively not credited in this analysis.
- Although the tracer gas test measures near zero Control Room (CR) unfiltered inleakage, 250 cfm unfiltered inleakage is used in this analysis.
- Although, four (4) seismically supported MSLs are available for the MSIV leakage pathways, the MSIV leakage is distributed among two MSLs.
- The system bypass leakages only credit the piping between the containment isolation valves (CIVs) for aerosol deposition. This is conservative, since the bypass pathway could be extended to the next seismic boundary.

The following additional conservatisms are added in this analysis:

- The holdup times in the MSIV leakage and system bypass leakage are not credited in this analysis. *This change is conservative and will considerably increase the CR dose due to MSIV & system bypass releases.*
- The drywell spray is not credited beyond the respective aerosol & elemental iodine cutoff times of 2.25 hrs and 2.40 hrs. The CLB analysis credited the spray for 6.0 hrs. *This change makes a larger portion of aerosol & elemental iodine available for the bypass leakage pathways.*
- The use of 20-Group probabilistic distributions of settling velocities and total effective aerosol removal efficiencies provide a conservative treatment to removal of the aerosols having a wide range of particle sizes (smaller to larger) and weight (heavier to lighter) in the MSIV & system bypass releases.
- The use of a 10% higher than nominal Standby Gas Treatment System (SGTS) exhaust rate maximizes the doses from the containment and ESF leakages by releasing a larger amount of activity to the environment.
- The use of a 10% lower than nominal SGTS exhaust rate for the evaluation of shine from the Reactor Building (RB) to the CR maximizes the post-LOCA activity confined above the RB operating floor, which increases the RB shine dose to the CR operator.
- Revision 3 used a time-dependent elemental iodine removal efficiency based on the J.E. Cline methodology. In response to RAI-6, this calculation revision (Revision 4) will revert to the 50% removal efficiency used in the CLB analysis (Revision 2 of this calculation).

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7. The Control Room Envelope Filtration (CREF) is conservatively assumed to be initiated at 60 sec instead of 50 sec and lower intake and recirculation flow rates are used to increase the CR dose.

Consequently, this calculation balances the conservatisms in the analysis by appropriately allocating the CR dose margin and providing the appropriate treatment to removal of the aerosols having a wide range of particle sizes (smaller to larger) and weight (heavier to lighter).

2.0 METHODOLOGY AND ACCEPTANCE CRITERIA

The design basis loss of coolant accident is analyzed using a reasonably conservative set of assumptions and as-built design inputs parameters proven compatible for the AST and TEDE dose criteria. The numeric values of the critical design inputs are selected in a reasonably conservative manner to assure an appropriate and prudent safety margin to protect against unpredicted events in the course of an accident and to compensate for large uncertainties in facility parameters, accident progression, radioactive material transport, and atmospheric dispersion.

2.1 Post-LOCA Containment Leakage

2.1.1 Source Term

The composite model for all post-LOCA release pathways including the containment leakage release pathways is shown in Figure 1. The BWR core inventory fractions listed in Regulatory Guide 1.183, Table 1 are postulated to be released into the containment at the release timing shown in RG 1.183, Table 4 (Ref. 9.1, Sections 3.2 & 3.3). Since the post-LOCA minimum suppression chamber water pH is maintained greater than 7.0 (Ref. 9.12, Section 6.2), the chemical form of radioiodine released into the containment is assumed to be 95% cesium iodide (CsI), 4.85 percent elemental iodine, and 0.15 percent organic iodide (Ref. 9.1, Section A.2). With the exception of elemental and organic iodine and noble gases, the remaining fission products are assumed to be in particulate form (Ref. 9.1, Section 3.5). The fission product isotopic inventory for the increased Core Average Exposure (CAVEX) is obtained from Reference 9.6 and listed in Table 1 and in Design Input (DI) 5.3.1.3. The RADTRAD Nuclide Inventory File (NIF) is developed using the core isotopic activities from Table 1 and core thermal power level of 4,067 MWt (= 102% of 3,988 MWt Rated Thermal Power [RTP]). The NIF is used as a source term input for the RADTRAD3.03 computer code (Reference 9.2). The RADTRAD3.03 computer code is used to develop the post-LOCA radioactive release models. The validation & verification (V&V) of the RADTRAD3.03 code is documented in Reference 9.21. The RADTRAD NIF file “nmp2.nif” (Attachment 13.14) is developed and used in this analysis. The source term design inputs are shown in Sections 5.3.1.1 through 5.3.1.7. The Release Fraction and Timing (RFT) file “bwr_dba.rft” (Attachment 13.15) is used in the analysis.

2.1.2 Transport In Primary Containment

The radioactivity released from the fuel is assumed to mix instantaneously and homogeneously throughout the free air volume of the primary containment as it is released as discussed below. The radioactivity release into the containment is assumed to terminate at the end of the Early In-Vessel phase, which occurs at the end of 2 hours after the onset of a LOCA (Ref. 9.1, Table 4). The design inputs for the transport in the primary containment are shown in Sections 5.3.2.1 through 5.3.2.12.

The radioactivity released from the core is initially confined in the drywell volume of $3.062\text{E}+05\text{ ft}^3$ during the first 2 hours of the LOCA, and then it gets distributed between the drywell and suppression chamber (wetwell) air volume of $1.908\text{E}+05\text{ ft}^3$ after 2 hours, at which time the total volume of $4.97\text{E}+05\text{ ft}^3$ is expected to become one well mixed volume following the restoration of core cooling

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system. The thermal-hydraulic conditions in the primary containment are expected to be quite active due to a very high flow established between the drywell and wetwell (pathways 1 & 2 in Figure 1) as a result of steaming and condensing phenomenon (Ref. 9.5, Table 2). The high flow between the drywell & wetwell is credited after two hours for the remaining duration of the accident to maintain the homogeneous distribution of activity in one well mixed volume. The containment and drywell represent the same compartment.

2.1.3 Reduction in Airborne Activity Inside Containment

2.1.3.1 Elemental Iodine & Aerosol Activity Removal in Containment

There are two independent mechanisms working simultaneously in the drywell for removal of airborne iodine activities, namely the natural deposition of aerosols by gravitation and removal of elemental and aerosol iodine activities by drywell spray. In accordance with Section 3.2 of Appendix A to RG 1.183 (Ref. 9.1), reduction in drywell airborne radioactivity by natural gravitational deposition within containment may be credited using the models described in NUREG/CR-6189 ("A Simplified Model of Aerosol Removal by Natural Processes in Reactor Containments") (Ref. 9.32), which is incorporated in the RADTRAD code. *However, the gravitational deposition of drywell airborne aerosols is conservatively not credited in the analysis.*

2.1.3.2 Iodine Removal by RHR Drywell Spray

RG 1.183, Appendix A, Section 3.3, allows licensees to take reduction in airborne radioactivity in the containment by containment spray systems that have been designed and are maintained in accordance with Chapter 6.5.2 of the Standard Review Plan (SRP) (Ref. 9.9). RG 1.183, Section 5.1.2 requires that credit may be taken for accident mitigation features that are classified as *safety-related*, are required to be *operable by technical specifications*, are *powered by emergency power sources*, and are *either automatically actuated or, in limited cases, have actuation requirements explicitly addressed in emergency operating procedures*. The drywell spray, alternatively called containment spray, is qualified to meet the above RG 1.183 requirement as follows:

1. The containment spray system is safety related (Ref. 9.30, Section 6.2.2.3.1.2).
2. Operable by TS 3.6.1.6, "Two RHR drywell spray subsystems shall be OPERABLE." (Ref. 9.17.1).
3. In case of LOOP, supplied with a redundant onsite standby power source (Ref. 9.30, Section 6.2.2.3.1.2).
4. The containment spray isolation valves are electrically interlocked to allow actuation of the drywell spray only when: 1) there is a LOCA signal or a system-level LPCI manual initiation signal, and 2) there is a high drywell pressure signal present. A second electrical interlock prevents actuation of either the drywell or suppression chamber spray lines until the corresponding LPCI injection valve is shut (Ref. 9.30, Section 6.2.2.3.1.2).
5. Containment spray cannot be initiated below 2 psig due to a pressure interlock permissive in the Unit 2 RHR control logic (Ref. 9.30, Appendix C, Section 8.2).

The drywell spray is manually started 20 minutes after onset of a LOCA (Section 5.8.4).

The first order removal coefficient for drywell spray for particulate aerosols can be determined by the following equation from Standard Review Plan 6.5.2 (Reference 9.9, Section III.4.C.4, page 6.5.2-11):

$$\lambda_{S,Partic} = (3 \times h \times F \times E) / (2 \times V \times D)$$

$$\lambda_{S,Partic} = (3 \times h \times F) \times (E/D) / (2 \times V)$$

where,

$$\lambda_{S,Partic} = \text{particulate aerosol removal coefficient by spray wash-out}$$

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h = spray drop fall height

F = spray flow

E/D = ratio of a dimensionless collection efficiency (E) to the average spray drop diameter (D)

V = containment building net free volume

The minimum particulate aerosol removal coefficient is calculated to be 19.8 hr^{-1} in Section 7.9. The aerosol removal is not credited after a decontamination factor (DF) of 50 is reached. Although, the elemental iodine removal coefficient is always considerably higher than the particulate aerosol removal coefficient, it is conservatively assumed to be the same as the particulate aerosol removal coefficient, which is 19.8 hr^{-1} .

Justification for Operation of Drywell Spray

As a result of a large break LOCA, the containment pressure will reach a maximum very early in the event sequence. Emergency Operating Procedures (EOPs) will be entered to start carrying out actions to protect the reactor core. At the same time, the AST accident sequence begins with fuel cladding failure starting at 2 minutes. In the AST scenario, fuel damage progressively worsens due the assumed inability to cool the reactor core, which is beyond the design basis requirements for the Emergency Core Cooling System (ECCS). As such, it is assumed that the operators will quickly transition to the Severe Accident Procedures (SAPs) and enter N2-SAP-1 (Ref. 9.25).

Following the symptoms-based procedure in N2-SAP-1, it is assumed that operators will enter No. 4, "Core debris cannot be retained in the RPV". This is because the previous paths are not applicable because the RPV has not been breached and the ability to inject to the reactor core is not applicable at this stage in the assumed AST scenario.

Under the AST accident scenario, release associated with fuel melting starts at the start of the early-in-vessel stage at 30 minutes post-LOCA. N2-SAP-1 directs operators to use drywell and suppression chamber sprays by N2-SAP-2 (Ref. 9.34) for drywell temperature, primary containment pressure, radiation or hydrogen/oxygen control if the entry conditions are satisfied, including drywell/suppression pool chamber pressure greater than 0 psig. The entry conditions to spray via N2-SAP-2 will be satisfied within minutes of this event. Both the pressure and radiation will exceed SAP thresholds within minutes.

The radiation based entry condition for drywell spray is $6.0\text{E}+4 \text{ R/hr}$ in the drywell (Ref. 9.34). The radiation level is based on minor revision 009718 (Ref. 9.35.1) to design analysis PR-C-24-O (Ref. 9.35) and corresponds to the General Emergency (GE) Emergency Action Level (EAL) for containment radiation monitors. The drywell source term for the GE EAL corresponds to gap release of 20% of the core noble gases (3% gap release) and halogens (2% gap release). The GE EAL is approximately 10% of the total AST gap inventory, which is released linearly from $t=0$ to 30 minutes. Thus, the GE EAL in the AST scenario will be exceeded at approximately 1/10th of the release duration or 3 minutes post-LOCA, which is comparable to the timeframe when the peak pressure will be reached. Once the radiation exceeds the GE EAL, it will take many hours to come back down due to the more substantial release that occurs from the fuel melting. Therefore, drywell spray entry conditions will be met for pressure and radiation within minutes of the LOCA; however, it is conservatively assumed that the drywell spray is manually started 20 minutes after onset of a LOCA (Section 5.8.4).

After sprays are manually initiated, N2-SAP-2 spray criterion on radiation will require spray operation for an extended period of time, well after the fuel release is terminated. However, the sprays may require termination due to low drywell pressure. The termination criterion for sprays is specified in both N2-SAP-1 and N2-SAP-2 as "before drywell pressure drops to 0 psig."

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The containment pressure is anticipated to remain above zero based on USAR containment analyses combined with the AST scenario which postulates significant fuel damage, including clad-water reaction and cladding perforation. Containment evaluations and combustible gas evaluations indicate a minimum pressure above zero will be reached within 10 minutes of the initial spray with containment pressure stabilizing above zero and then slowly increasing as the containment heats up and with the postulated hydrogen release associated with the fuel damage including the non-condensable gas buildup. Because the radiation levels will exceed the action level to spray the drywell based on the radiation criteria within the assumed 10-minute spray period where containment is depressurized, it can be assumed the operators will not secure the sprays. It is noted that the NMP2 containment spray system has an interlock that will prevent the operators from manually starting the sprays if the containment pressure is below 2 psig and therefore a precaution is appropriate to ensure operators continue to spray if in the N2-SAP-2 spray criterion on radiation and only secure sprays if pressure continues to trend to zero.

In summary, the above description provides adequate justification for the assumed operation of drywell spray from 20 minutes with the sprays continuing for at least 2.40 hours after the radiation levels exceed the N2-SAP-2 action level.

The iodine decontamination factor, DF, is defined as the maximum iodine concentration in the containment atmosphere divided by the concentration of iodine in the containment atmosphere at some time after decontamination (Ref. 9.9, Section III.4.d). The effectiveness of the spray in removing elemental iodine is presumed to end when the maximum elemental iodine DF of 200 is reached.

The post-LOCA maximum iodine concentration in the drywell occurs at the end of the Early-In-Vessel release phase, which is at 2.0 hrs from the onset of a LOCA. The isotopic elemental iodine atoms in the drywell represent the elemental iodine isotopic activities. Therefore, the containment leakage RADTRAD input file NMP2CL200.psf is modified by continuing the drywell spray elemental and particulate removal coefficients for the entire duration accident, 720 hrs., in RADTRAD input file NMP2CL11.psf (output file NMP2CL11.o0) to determine the time-dependent reduction in the drywell airborne elemental iodine atoms and aerosol (particulate) mass, which are listed in Table 1A. The drywell (DW) spray is assumed to start at 0.333 hr (20 minutes) after the onset of a LOCA. The elemental iodine atoms and particulate iodine mass at 2.00 hrs after the onset of a LOCA corresponds to the maximum concentrations of the elemental and particulate iodines in the drywell, which are divided by a factor of 200 and 50 respectively, to determine the numbers of elemental iodine atoms & particulate mass and times when the corresponding DFs are reached. The review of Table 1A indicates the elemental iodine reaches a DF of 200 at 2.42 hrs (2.4 hrs. used) and aerosol iodine mass reaches to a DF of 50 at 2.29 hrs. (2.25 hrs. used). At these times, SRP 6.5.2 requires the spray removal of elemental iodine to be terminated and the spray removal of aerosol be reduced by a factor of 10. The DW spray removal of elemental iodine and aerosol is conservatively not credited after the respective DFs are reached.

ADC-11-000648-CN-001 (Ref. 9.29.1) identifies an increase in valve leakage during the first few minutes after a LOCA event due to a lengthening of the closure time for certain isolation valves. The ECP identifies the leakage of 100 cfm during the first 5 minutes after onset of a LOCA.

The release from the valves in question is from the wetwell (WW), which does not contain the accident source until 2 hours into the accident. The above changes affect the containment leakage model only. This additional leakage from the isolation valve is expected to leak to the reactor building (RB) during the first few minutes when the RB is drawn down to establish sub-atmospheric pressure. Conservatively, the DW is postulated to leak to the RB (instead of WW) at a rate of 102.75 cfm (= 100 cfm valve leakage + 2.75 cfm DW leakage) for a duration of 5 minutes to leak additional core gap activity into RB

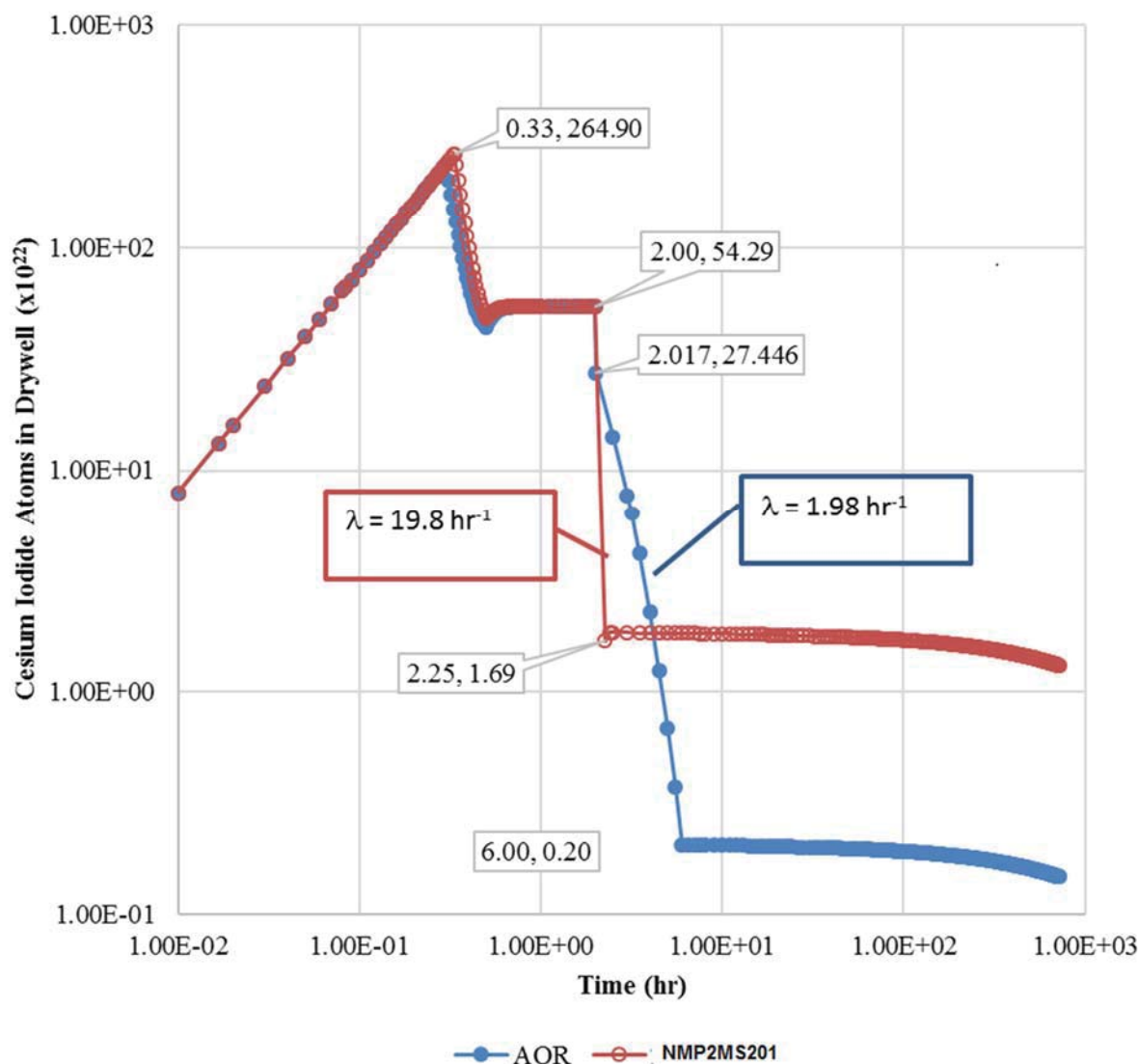
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volume, which is directly released to the atmosphere from the RB at the ground level release during the drawdown time at a rate of 2,670 cfm (Ref. 9.17.5). Note that this is conservative because the AST methodology in Regulatory Guide 1.183 (Reference 9.1) allows a 2 minute delay before the onset of the gap release phase, which is not credited and the release from the valves in question is from the wetwell, which does not contain the accident source (in the model) until 2 hours into the accident.

Aerosol Distribution in Drywell

The aerosol distribution in the drywell is evaluated for the analysis of record (AOR) case and the Revision 3 drywell model case, which is used in this analysis. To compare the aerosol distribution in the drywell, the drywell models in both cases are made consistent with the case-specific design input parameters including the drywell spray cutoff times. Because this comparison is only concerned with the drywell aerosol distribution, details of the main steam line models are not relevant. Particulate iodine release is only CsI per RG 1.183. The Cs is modeled as 7.2% of the total CsI activity based on use of molar fractions. The AOR case was developed by modifying the Revision 3 MSIV leakage RADTRAD file NMP2MS201.psf (see Attachment 13.24) by using the aerosol drywell spray model from the AOR. The RADTRAD file NMP2MSAOR.psf (see Attachment 13.25), developed in Revision 3, is used for the drywell aerosol distribution plot.

The 95% of 30% of the core iodine released during a LOCA is in the form of CsI, therefore, the CsI distribution in the drywell is evaluated for the LAR and AOR cases and compared to demonstrate that the LAR case is relatively bounding and provides a larger amount of aerosol in the drywell volume, which is available for release to the MSIV leakage pathways. The aerosol distribution in the drywell for both cases is plotted in the following Plot 1.

Plot 1: Comparison of CsI in Drywell

2.1.4 Reduction in Airborne Activity Inside Secondary Containment

The reduction in containment leakage activity by dilution in 50% of the volume of the RB and removal by the SGTS filtration are credited. The secondary containment (SC) and SGTS ESF grade charcoal and HEPA filters are operable per TS 3.6.4.1 and 3.6.4.3 (Ref. 9.17.2 & 9.17.3, respectively) and tested per NMP2 TS 5.5.7 (Ref. 9.17.4) to maintain the filter integrity necessary to provide the desired performance during a radiological emergency to protect the health & safety of site personnel and that of the general public. The compliance to Generic Letter (GL) 99-02 (Reference 9.13) requires use of a safety factor of 2 to calculate the filtration efficiency to be credited in the design basis analysis. The SGTS charcoal and HEPA filtration efficiencies of 99% are calculated in Section 7.8 and credited in this analysis. The SGTS exhaust flow rate varies 3,600 cfm to 4,400 cfm (Ref. 9.17.4). The larger SGTS flow rate of 4,400 cfm is used in the analysis to maximize CR & offsite doses but a lower SGTS flow rate of 3,600 cfm is conservatively used to maximize RB shine dose to CR.

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2.1.5 Dual Containment

Leakage from the primary containment is assumed to mix in 50% of the reactor building (RB) free air volume. The 50% mixing effectively reduces the RB net free volume by 50% from when modeled for the containment & ESF leakage releases.

2.1.6 Containment Purging

2.1.6.1 Normal Containment Purging (NCP)

Per NMP2 Technical Specification (TS) Basis B3.6.1.6 (Ref. 9.17.6), the 12" and 14" primary containment purge (CP) valves are PCIVs that are qualified for use during all operational conditions. The 12-inch and 14-inch primary containment purge valves are normally maintained closed in MODES 1, 2, and 3 to ensure the primary containment boundary is maintained. However, the purge valves may be open when being used for pressure control, inerting, de-inerting, ALARA, or air quality considerations since they are fully qualified. These PC valves are required to open in less than 5 seconds (Section 5.3.2.4 & Ref. 9.29.2, Attachment 5) and release the total containment air volume of 247.4 ft³ (Section 5.3.2.4 & Ref. 9.29.2, Item 3.18). Traditionally, the NCP doses are negligible because:

1. The duration of purge is less than 5 seconds.
2. The contaminated air released during the NCP is 247.4 ft³.
3. The reactor coolant activity is expected to be released during the NCP, which is multiple magnitudes smaller than the core activity.

The most conservative scenario is the occurrence of a LOCA while the NCP is in progress. This event would not last more than 5 seconds and during this time there will be no core activity available for release until 2 minutes after the onset of a LOCA (Ref. 9.1, Table 4). Therefore, this event is considered inconsequential.

2.1.6.2 Post-LOCA Containment Purging

Section 7 of Appendix A to R.G. 1.183 states that if post LOCA primary containment purging is performed as a combustible gas or pressure control measure or if primary containment purging is required within 30 days following a LOCA, then radiological consequences should be analyzed. It further states that if the containment purging capabilities are maintained for purposes of severe accident management and are not credited in any design basis analysis, then radiological consequences need not be evaluated. The NRC SER for TS improvement to eliminate requirements for hydrogen recombiners and hydrogen/oxygen monitors using the consolidated line item improvement process TSTF-447 (Ref. 9.24), indicates that the revised 10 CFR 50.44 no longer defines a design-basis LOCA hydrogen release, and eliminates requirements for hydrogen control systems to mitigate such a release. The installation of hydrogen recombiners and/or vent and purge systems required by 10 CFR 50.44(b) (3) was intended to address the limited quantity and rate of hydrogen generation that was postulated from a design-basis LOCA. The Commission has found that this hydrogen release is not risk-significant because the design-basis LOCA hydrogen release does not contribute to the conditional probability of a large release up to approximately 24 hours after the onset of core damage. In addition, these systems were ineffective at mitigating hydrogen releases from risk-significant beyond design-basis accidents. Therefore, the Commission eliminated the hydrogen release associated with a design-basis LOCA from 10 CFR 50.44 and the associated requirements that necessitated the need for the hydrogen recombiners and *the backup hydrogen vent and purge systems*. Therefore, the post-LOCA containment purging is not a credible event that needs to be analyzed.

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2.2 Post-LOCA ESF Leakage

The post-LOCA ESF leakage release model is shown in Figure 1. The ESF systems that recirculate suppression pool water outside of the primary containment are assumed to leak during their intended operation. This release source includes, but is not limited to, leakage through valve packing glands, pump shaft seals, flanged connections, and other similar components. The radiological consequences from this postulated leakage are analyzed in the following section and combined with the radiological consequences from other fission product release paths to determine the total calculated radiological consequences from the LOCA (see Section 8.1 of this calc). The ESF components are located in the RB.

2.2.1 Source Term

With the exception of noble gases, all the fission products released from the core to the containment (as defined in Sections 5.3.1.3 & 5.3.1.5) are assumed to instantaneously and homogeneously mix in the suppression pool water at the time of release from the core. The total ESF leakage from all components in the ESF systems is assumed to be 62 gpm or 8.29 cfm (Section 7.4) that includes 60 gpm of leakage associated with valves - 2RHS*MOV142, 2RHS*S0V35A, 2RHS*S0V36A, 2RHS*MOV149, 2RHS*S0V35B, & 2RHS*S0V36B (Ref. 9.4, Item 3.16) and 1 gpm of the system leakage, which was doubled per RG 1.183, Appendix A, section A.5.2 and assumed to start at time $t = 0.0$ minutes after the onset of a LOCA. With the exception of iodine, all remaining fission products in the recirculating liquid are assumed to be retained in the liquid phase. As such, ESF leakage is modeled as release of only iodine isotopes. Since the maximum suppression pool water temperature of 202°F is less than 212°F, 10% iodine activity in the ESF is assumed to become airborne (Ref. 9.1, Section A.5.5). 10% of iodine activity in the ESF leakage that becomes airborne (flushed into the air) is modeled as a filter with a 90% of iodine removal efficiency in RADTRAD files NMP2ES200.psf for elemental and organic iodine. The design inputs for the ESF leakage are shown in Section 5.4. The ESF leakage activity is assumed to mix in 50% of the RB volume and is filtered by the SGTS filtration system.

2.2.2 Chemical Form

The radioiodine that is postulated to be available for release to the environment is assumed to be 97% elemental and 3% organic (Ref. 9.1, Section A.5.6).

2.3 Post-LOCA Bypass Leakages

2.3.1 MSIV Bypass Leakage

The MSL piping schematic is shown in Figure 2. The four main steam lines, which penetrate the primary containment, are automatically isolated by the MSIVs in the event of a LOCA. There are two MSIVs on each steam line, one inside containment is called an Inboard MSIV and one outside containment is called an Outboard MSIV. The MSIVs are functionally part of the primary containment boundary and design leakage through these valves provides release pathways for fission products that bypass the secondary containment and enter the environment as a ground-level release. The MSIVs are postulated to leak at a total design leak rate of 200 scfh. The radiological dose consequences from postulated MSIV leakage are analyzed and combined with dose consequences from other post-LOCA sources to determine the total post-LOCA dose (see Section 8.1 of this calc).

As stated in Section 1.0, the MSIV leak rate criteria are optimized prudently allocating the CR dose margin and reducing excessive conservatism in the design inputs.

The following CLB NMP2 plant-specific design inputs are modified in a reasonably conservative manner for the MSIV leakage path:

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1. Using the 20-Group Probabilistic Distribution of Aerosol Settling Velocity
2. Crediting Aerosol Deposition in MSL Upstream of Inboard MSIV
3. Crediting Aerosol Deposition in MSLs Beyond the Outboard MSIVs

2.3.1.1 Using the 20-Group Probabilistic Distribution of Aerosol Settling Velocity

The review of various NRC AST Safety Evaluation Reports (SERs) addressed the following common concerns about the aerosol deposition in the MSLs:

1. Knowing characteristics used in AEB-98-03 (Ref. 9.5) and lack of further information, the NRC staff is concerned with how much deposition (i.e., what settling velocity value) is appropriate. The use of AEB-98-03 is acceptable to the NRC in accordance with RIS 2006-04 (Ref. 9.19), provided these concerns are addressed.
2. The settling would be expected to be at a lesser rate for the later sections of piping and at a later time considering that the larger and heavier aerosols would have already settled out of the main steam line atmosphere in upstream sections of piping.

The NRC concern is about the selection of a value of aerosol settling velocity, which is appropriate for removal of the aerosol particles having a wide range of particle sizes and weights. It means that a single value of settling velocity needs to be selected such that it covers the settling velocity range of 0.00021 m/s (10th percentile) through 0.00148 m/s (60th percentile) given AEB-98-03, Table A-1.

In response to these NRC concerns, this analysis implements a 20-group probabilistic settling velocity distribution rather than using a single median value from AEB-98-03, Table A-1. The same settling velocity probability distribution function shown in Equation (5) of AEB 98-03 is used to conservatively calculate aerosol settling velocity as follows:

$$u_s = \frac{\rho \cdot d_e^2 \cdot g \cdot C_s}{18 \cdot \mu \cdot k}$$

where:

- u_s = settling velocity (cm/sec)
- ρ = particle density (g/cm³)
- d_e = particle diameter (cm)
- g = gravitational acceleration (cm/sec²)
- C_s = Cunningham Slip Factor (dimensionless)
- μ = viscosity (g/cm-sec)
- k = shape factor (dimensionless)

As stated in AEB-98-03 and discussed above, this equation is conservative because it does not consider such phenomena as thermophoresis, diffusiophoresis, flow irregularities, and hygroscopicity, which would all serve to increase the rate of aerosol deposition and reduce the settling velocity. As applied in this analysis, the settling velocity distribution in this equation is a function of a randomly sampled range of the three (3) critical aerosol parameters, density/weight (logarithmically distributed), diameter/size (uniformly distributed), and shape (uniformly distributed); and three (3) constants, gravitational acceleration, Cunningham slip factor, and viscosity. The range of each particle parameter is discussed and given in AEB-98-03. A spreadsheet was developed to perform this random sampling, using 10,000 randomly generated

histories to ultimately generate a settling velocity distribution. Each of the 10,000 calculated settling velocities was given a probability of $1/10,000^{\text{th}}$, thereby making the cumulative fraction total to 1. A conservative 20-group step function was developed to approximate the continuous settling velocity distribution function calculated from the 10,000 histories. To ensure conservatism, this stepwise representation of the maximum settling velocity of a group is never allowed to exceed the value that defines the continuous probability curve.

Using the following equations (2) & (3) of AEB-98-03, settling velocity, settling area, volumetric flow rate, and the volume of the well-mixed region being modeled are used to calculate the aerosol particulate release fractions (RFs), based on initial activity concentration.

$$\eta_{\text{filt}} = 1 - \frac{C}{C_{\text{in}}} = 1 - \frac{1}{1 + \frac{\lambda_s * V}{Q}} = 1 - \frac{1}{1 + \frac{\mu_s * A}{Q}} \quad \lambda_s = \frac{\mu_s * A}{V} = Q/V ((1 / (1 - \eta) - 1))$$

where:

u_s = settling velocity (cm/sec)

A = settling area (cm^2)

V = volume of well-mixed region (cm^3)

C = concentration of nuclides in well-mixed volume (cm^{-3})

C_{in} = initial concentration of nuclides in well-mixed volume (cm^{-3})

λ_s = settling rate constant (sec^{-1})

Q = volumetric flow rate into well-mixed volume (cm^3/sec)

η_{filt} = filter efficiency

For each of the 20 groups, aerosol particulate RFs from each node or volume are calculated, as shown above, and then turned into removal efficiencies (REs) by subtracting them from 1. The set of 20 removal efficiencies, calculated for each volume, is combined to form a set of 20 Net Release Fractions (NRFs) for a given MSL. The NRF associated with a given group is the product of the RE for each volume, or node, and the probability associated with that specific settling velocity group. The set of 20 NRFs is summed, and again subtracted from 1, to calculate a total effective aerosol removal efficiency (TEARE) as shown in Table 4 for an MSIV leakage of 200 scfh for input to the RADTRAD code. This is performed for each MSL being modeled.

By implementing a conservative, semi-continuous, probability-weighted 20-group step function to simulate the varied population of particulate in a given MSL volume, as opposed to a single median value, this model accounts for the uneven settling of “easier to remove particles” versus “difficult to remove particles”. To transparently illustrate this, the settling velocity probability distribution exiting in each volume or node can be re-calculated and compared to the initial distribution. The probability distribution successively shifts “weight” from the “easier to remove particles” when entering the piping, to the “difficult to remove particles” as flow moves through the MSL. When the activity finally exits the system, the re-calculated probability distribution indicates a much more likely chance of seeing “difficult to remove particles” than was the case when entering the system. As shown in Table 4A, the spreadsheet individually re-calculates the probability distribution exiting MSL A & MSL D for illustration purposes. Because multiplication is the only affected mathematical operation in this model, and considering that multiplication is commutative and distributive, it is not necessary to individually re-calculate the distribution after each node or volume; by applying just the initial probability distribution to the calculation of the NRF, the changing distribution through the system is accounted for. *Recalculating each distribution exiting*

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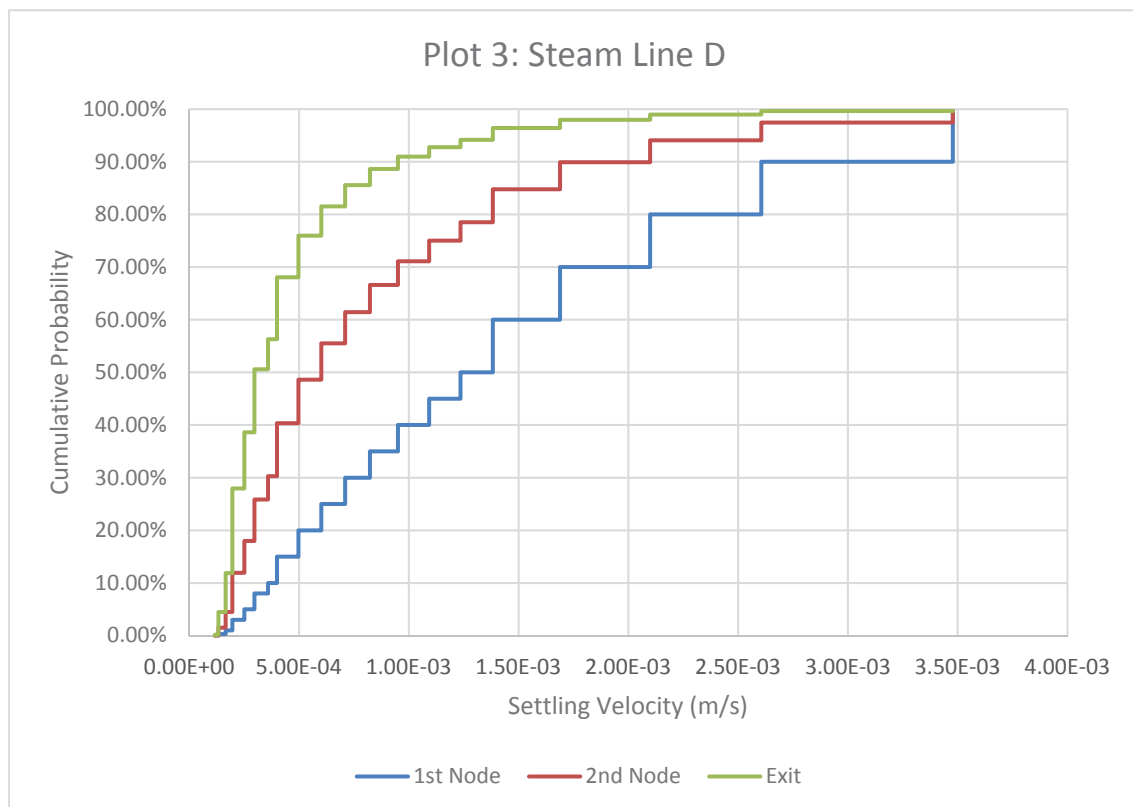
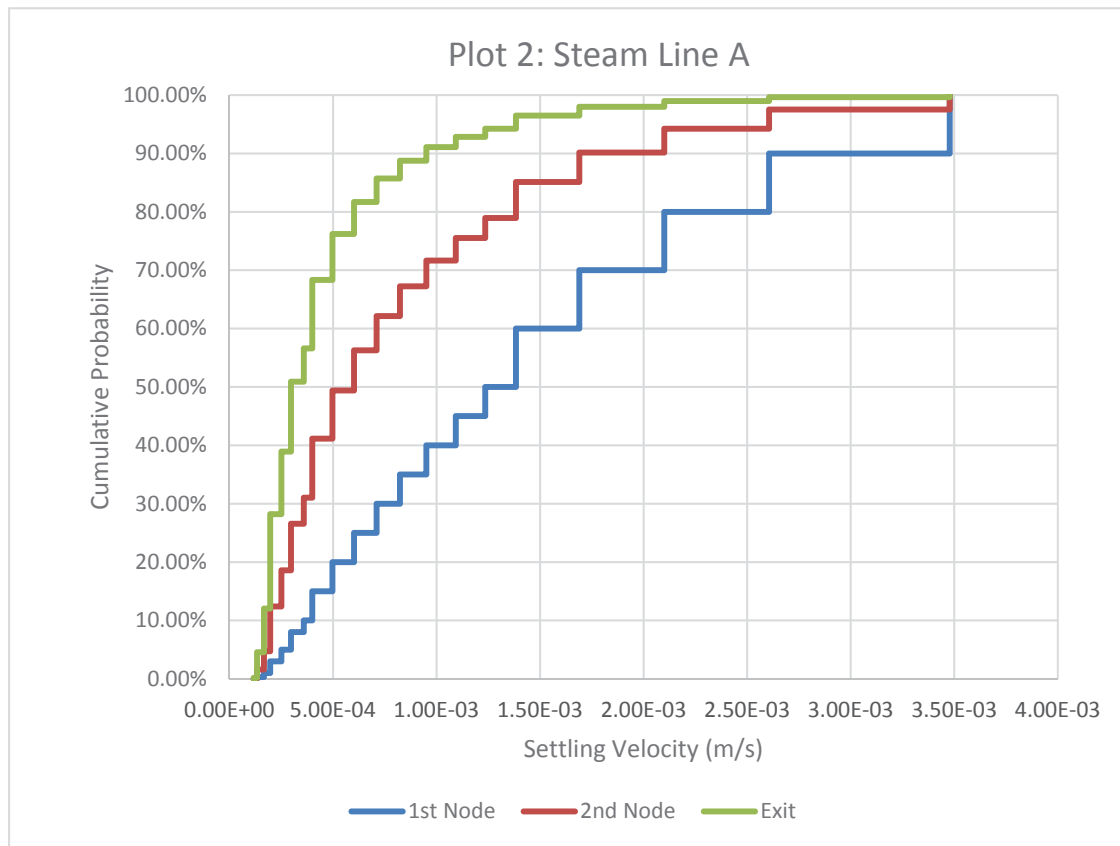
a node or volume, then using that to calculate the distribution entering the next node or volume, yields the same TEARE as that calculated in Tables 4 . Therefore, one TEARE is applied to the entire MSIV release pathway. Each MSIV release path consists of two MSL segments, the inboard and outboard MSL segments. Therefore, the TEARE is also applied to the outboard MSL segment in each MSIV release path exiting the environment.

In addition to the conservative implementation of the 20-group settling velocity distribution discussed above, the analysis added a large amount of conservatism in the analysis as discussed in Section 1.0. This conservative aerosol deposition treatment and the significant residual conservatism associated with and mentioned in the AEB-98-03 conclusions and discussed above, account for uncertainty associated with the aerosol settling velocity and deposition model in AEB-98-03.

The total effective aerosol removal efficiency (TEARE) in Table 4 is calculated using the MSL horizontal projected area in Table 2 and the MSIV leak rates in Table 3. The MSIV leak rate reduction after 24 hrs is credited for the release pathways but not credited for calculating the TEARE. The new RADTRAD input files NMP2MS00.psf and NMP2MS01.psf are generated for the MSIV leakage pathways using the well-mixed volumes information from Table 2, leak rate information from Tables 3, and TEARE from Table 4. The new RADTRAD input files NMP2MS02.psf and NMP2MS03.psf for the System Bypass leakage are generated using the leak rate and aerosol removal efficiency information from Table 9 and adjusted site boundary χ/Q information from Table 10A.

The effective aerosol removal efficiencies and aerosol removal rate constants, the lambdas (λ_s), are calculated in Table 4B for the MSL A & D inboard and outboard piping segments for a MSIV leak rate of 200 scfh. The RADTRAD file NMP2MS01.psf (200 scfh) is modified using the effective aerosol removal efficiencies and lambdas from Table 4B to calculate the resulting dose consequences listed in Table 4D (see output files in Attachment 13.22 and 13.23) and the doses are compared with those in this revised analysis that uses the 20-group TEARE. The comparison in Table 4D shows that the resulting dose consequences using the aerosol removal efficiencies and lambdas are essentially the same as those in this analysis and their use results in inconsequential changes in dose consequences.

The 20-group step function simulates a varied population of aerosols having uneven settling of the heavier & larger particles versus the lighter & smaller particles. The settling velocity probability distribution shifts from the “heavier & larger particles” when entering the MSL piping to the “lighter & smaller particles” when moving through the MSL. The settling velocity probabilistic distributions are calculated in Table 4C for MSLs A & D for Node 1 (entry node), Node 2 (piping node) and exit for the MSIV leak rate of 200 scfh and plotted in Plots 2 and 3, which show that the settling velocity probability distribution shifts from the “heavier & larger particles” when entering the entry node (Node 1) to the “lighter & smaller particles” when exiting from the MSL.



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2.3.1.2 Crediting Deposition in MSL Upstream of Failed Inboard MSIV

The “MSIV failed” line means that the inboard MSIV in one of the shortest MSLs fails to close and remains open during the accident, which extends the well mixed volume boundary from the RPV nozzle to the outboard MSIV without breaching its structural integrity to perform its intended safety related function of maintaining the reactor pressure boundary during and following a LOCA. This MSIV failure complies with a single active component failure requirement that results in the most limiting radiological consequences (RG 1.183, Section 5.1.2). All MSLs in the MSIV leakage release pathways are seismically designed and supported to withstand the Safe Shutdown Earthquake (SSE) (Figure 2) and thereby it complies with RG 1.183, Appendix A, Section 6.5 requirement. Therefore, the horizontal pipe surface area is credited for the aerosol deposition and volume for dilution in the MSL upstream of the inboard MSIV that failed to close. Postulating the MSL break upstream of the inboard MSIV during a LOCA is considered another DBA event of a main steam line break inside the containment, which is neither credible nor feasible based on the qualification of the MSLs. However, in response to RAI-4 (Ref. 9.39), the dose consequences resulting from an assumed main steam line break (MSLB) are evaluated in Attachment 13.19.

The information in Table 2 is modified to include the inboard MSL area and volume and is used to calculate the TEARE in Table 4. The CLB aerosol deposition model is modified to include the inboard MSL piping surface area and volume to calculate the aerosol removal efficiency in one well-mixed volume of the MSIV failed MSL A (Figure 3). The new RADTRAD input files for the MSIV leakage and system bypass leakage pathways NMP2MS00.psf, NMP2MS01.psf, NMP2MS02.psf, and NMP2MS03.psf are established using the well-mixed volumes information from Table 2, leak rate information from Table 3, and TEARE from Table 4.

2.3.1.3 Crediting Deposition in MSLs beyond the Outboard MSVs

As can be seen from Figure 2 obtained from Reference 9.10 that all four MSL headers are seismic I and QA Cat I from the RPV Nozzle to the seismic boundary break at the Turbine Stop Valve (TSV), therefore, they are qualified to withstand the SSE and thereby they comply with the RG 1.183, Appendix A, Section 6.5 requirement to be credited for aerosol deposition. Therefore, the MSIV leakage pathway boundary is extended up to the TSV. The post-LOCA MSIV leakage pathway boundaries from the CLB analysis are modified in the following section for increased MSIV leak rates. For the purpose of this analysis, the activity available for release via MSIV leakage is assumed to be that activity released into the drywell for evaluating containment leakage.

A total of 200 scfh MSIV leakage is assumed to occur in the following manner:

1. MSIV Failed MSL (Pathway 7 in Figure 1):

- MSIV leakage is increased from 24 scfh to 100 scfh.
- Horizontal piping surface area and volume of the MSL upstream of outboard MSIV are credited for aerosol deposition. One well-mixed volume (V_1) is between the RPV Nozzle and outboard MSIV.
- Horizontal piping surface area and volume of the MSL between the outboard MSIV and TSV are credited for aerosol deposition. A second well-mixed volume (V_2) is between the outboard MSIV and TSV.
- The airborne elemental iodine removal in this release path is assumed to be 50% in one pathway per steam line (DF=2) as in the CLB.
- No credit is taken for a holdup time in the MSIV failed MSL.

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2. First Shortest Intact MSL (Pathway 8 in Figure 1):

- MSIV leakage is increased from 72 scfh to 100 scfh
- Horizontal piping surface area and volume of the MSL between the RPV Nozzle and inboard MSIV are credited for aerosol deposition. One well-mixed volume (V_3) is between the RPV Nozzle and inboard MSIV.
- Horizontal piping surface area and volume of the MSL between the inboard MSIVs and TSV are credited for aerosol deposition. A second well-mixed (V_4) between the inboard MSIV and TSV.
- The airborne elemental iodine removal in this release path is assumed to be 50% in one pathway per steam line ($DF=2$) as in the CLB.
- No credit is taken for a holdup time in the intact MSLs.

3. Second Shortest Intact MSL

- 0 scfh through the third MSL is assumed.

4. Third Shortest Intact MSL

- 0 scfh through the fourth MSL is assumed.

2.3.1.4 MSL Elemental Iodine Removal

The NRC has consistently accepted the use of a 50% elemental iodine removal efficiency in the MSIV leakage release path for the entire duration of the accident based on the information used in AEB-98-03 (Ref. 9.5) for AST license amendments. Consequently, the CLB analysis uses a 50% elemental iodine removal efficiency for the MSIV release paths. In response to RAI-6 (see Attachment 13.21) this calculation revision will also use a 50% elemental iodine removal efficiency. This has been previously approved by the NRC (Reference 9.26.1). This iodine removal efficiency is only applied to one pathway on each modeled main steam line.

2.3.1.5 Determination of MSIV Leak Rates in Various Main Steam Line Volumes

The total MSIV leakage from all main steam lines is 200 scfh measured at 40 psig, allowing a maximum of 50 scfh from any one of the 4 main steam lines (conservatively modeled as 100 scfh in this analysis). The total MSIV leak rate of 200 scfh is converted using the Ideal Gas Law to determine the actual leakage (cfh) using post-LOCA peak temperature and pressure in Section 7.2. Since the actual MSIV leak rate is reduced at the accident condition due to the combined effects of compression (due to the high pressure) and expansion (due to the high temperature), the increase in the MSIV leak rates to the environment from the outboard MSIVs are conservatively calculated in Section 7.2 using the Ideal Gas Law and drywell post-LOCA peak pressure and temperature and listed in Table 3. The MSIV leak rates in Tables 3 are used in this analysis with the total effective aerosol removal efficiency (TEARE) calculated in Tables 4 based on the horizontal pipe surface areas calculated in Table 2 and the 20-group probabilistic distribution of settling velocities. The reduction in the containment leakage and MSIV leakage 24 hours after the onset of a LOCA is credited in the analysis (Ref. 9.1, RG 1.183 Appendix A, Section 6.2) but the leak rate reduction is conservatively not credited in the aerosol deposition calculation (Table 4).

2.3.2 System Bypass Leakages

The aerosol deposition depends on three variables namely the aerosol settling velocity, the horizontal projected pipe surface area (the horizontal length times the diameter), and volumetric flow rate of system bypass leakage. Also, only the portion of the line between the containment isolation valves (CIVs) is credited for aerosol deposition. This is conservative, since the bypass pathway could be extended to the next seismic boundary.

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Unlike the MSIV leakage pathways having the same size of MSLs in two release pathways, the 25 system bypass leakage pathways have different sizes of pipes that require determination of the piping size-specific aerosol removal efficiencies using the 20-group probabilistic distribution of settling velocities. This makes it difficult to calculate TEARE for each release path. Therefore, the procedure for aerosol deposition for each system bypass pathway is developed using a spreadsheet methodology as shown in Table 6 using the CLB 3rd percentile aerosol settling velocity, which remains bounding for the aerosol particle range discussed in Section 2.3.1.1. and discussed in the following section.

1. The system bypass leakage pathway conservatively credits only the piping between CIVs to be a well-mixed volume.
2. The CLB aerosol settling velocity of 3rd percentile is used, which continues to bound the range of aerosol particles described in AEB-98-03.
3. The tested system bypass leakage in scfh is listed in Column A of Table 6.
4. The internal piping areas (πDL) for the bypass leakage pathways are obtained from Reference 9.10, Table 6.11-2 and are listed in Column B of Table 6 of this calculation.
5. The projected horizontal piping surface area $[(\pi DL)/\pi]$ is calculated in Column C of Table 6.
6. The aerosol settling velocity of 0.777 ft/hr is calculated based on the 3rd percentile settling velocity and listed in Column D of Table 6.
7. The product of projected surface area times settling velocity ($\mu * A$) is calculated in Column E of Table 6.
8. A factor to convert the flow rate in scfh to actual flow rate cfh @ accident condition is calculated to be 0.4056 as follows:

$$\text{Actual cfh @ accident condition} = \text{scfh} \times [14.7 \text{ psia} / (40 \text{ psig} + 14.7 \text{ psia})] \times [800\text{R} / 530\text{R}] = \text{scfh} \times 0.4056 \text{ cfh/scfh} = \text{cfh}$$

The actual flow rate cfh = scfh (Column A) x 0.4056 and is listed in Column F of Table 6.

9. The aerosol removal efficiency is calculated in Column G of Table 6 using the following Equation (3) from Section 2.3.2:

$$\eta_{\text{filt}} = 1 - \frac{C}{C_{\text{in}}} = 1 - \frac{1}{1 + \frac{\mu_s * A}{Q}} = 1 - (1 + E/F)^{-1}$$

The ratio of accident volumetric flow (cfh) to scfh under these conditions is 0.4056. This ratio holds for all bypass pathways because all are tested under the same conditions and exposed to the same accident conditions (pressure and temperature).

The following is an example for a MSIV leak rate of 100 scfh:

The volumetric flow rate under accident conditions cfh = 100 scfh x 0.4056 = 40.56 cfh as shown in Table 3.

2.3.3 Grouping System Bypass Leakages

There are 25 other bypass leakages from various systems excluding the MSIV bypass leakages; these are discussed in Section 2.3.2 and listed in Section 5.5.6. These system bypass leakages are grouped together based on their release locations and origin of the radioactive sources. These system bypass leakages originate either from drywell or wetwell and get released to the environment via four (4) release locations, namely the main steam tunnel, combined radwaste & reactor building vent, standby gas treatment system building, and PASS panel. *No credit is taken for any holdup time in the system bypass pathways.* The time-dependent χ/Q values are shown in the following table obtained from Table 7:

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Time (hr)	Control Room χ/Q Values for Various NMP2 Release Points				
	Combined Radwaste & Reactor Bldg Vent	Post Accident Sampling System Panel (PASS)	Standby Gas Treatment Sys Building (SGTS)	Main Steam Tunnel	Main Stack
	(s/m ³) A	(s/m ³) B	(s/m ³) C	(s/m ³) D	(s/m ³) E
0-2	1.09E-03	3.84E-04	5.33E-04	1.47E-03	8.03E-05
2-8	7.23E-04	2.28E-04	3.72E-04	9.74E-04	4.48E-05
8-24	2.50E-04	8.23E-05	1.36E-04	3.63E-04	1.68E-05
24-96	1.92E-04	6.28E-05	9.17E-05	2.45E-04	1.20E-05
96-720	1.47E-04	4.57E-05	6.72E-05	1.90E-04	8.83E-06

These system bypass pathways are divided into two release categories, namely the drywell system bypass pathway 5 (Figure 1) and wetwell system bypass pathway 6 (Figure 1) based on their origins.

For the given source term, the system leak rate determines the activity release rate ($\text{Ci/m}^3 * \text{m}^3/\text{s} = \text{Ci/s}$). For the given system activity release rate, the location of the release point produces the activity concentration ($\text{Ci/s} * \text{s/m}^3 = \text{Ci/m}^3$), which is multiplied by the dose conversion factor yielding the dose at the given receptor location. As discussed in the preceding section, there are two system sources, the drywell and wetwell, and four release locations. First of all, the most limiting release point location is determined where the highest bypass leak rate occurs. The Main Steam Tunnel (MST) is the most limiting release location because the MSIV bypass leakage of 200 scfh and other largest system bypass leakages of Feedwater and RWCU systems are released at the MST location (Section 2.3.2 & Table 9). Additionally, the MST has the largest set of χ/Q values that supports the MST being the correct location for normalization (Table 7). All system bypass leakages occurring at the different release point locations can be transposed to the MST release point to provide both system bypass release categories (drywell & wetwell) a consistent basis for using one set of MST χ/Q s to minimize the number of computer runs without compromising accuracy. The MST χ/Q values are used to normalize other system bypass leakages to transpose them to the MST location. Each location-specific time dependent χ/Q value is divided by the corresponding MST χ/Q value to determine a set of multipliers for each release point location as shown in Table 8 and listed below.

Time (hr)	NMP2 Release Point Normalization Factors			
	Combined Radwaste & Reactor Bldg Vent	Post Accident Sampling System Panel (PASS)	Standby Gas Treatment Sys Building (SGTS)	Main Steam Tunnel
0-2	0.74	0.26	0.36	1.00
2-8	0.74	0.23	0.38	1.00
8-24	0.69	0.23	0.37	1.00
24-96	0.78	0.26	0.37	1.00
96-720	0.77	0.24	0.35	1.00

Choosing the largest calculated value from each set from the above table, the following multiplier values are selected:

- U2 Combined Radwaste & Reactor Vent: Multiplier = 0.78
- U2 Post Accident Sampling Sys. Panel (PASS): Multiplier = 0.26
- U2 Standby Gas Treatment Sys. Building (SGTS): Multiplier = 0.38

- U2 Main Steam Tunnel: Multiplier = 1.00

The factor varies from 0.26 for the PASS system release point to 1.0 for the MST release point. The adjusted system bypass leak rate at the MST release point can be determined by multiplying the system leak rate by the applicable multiplier for the release point location. The normalized system bypass leak rate is substantially reduced for the PASS system due to having the lowest multiplier value. The aerosol removal (deposition) efficiency is inversely proportional to the system bypass leak rate. The reduction in the system bypass leak rate is appropriate for its normalized location to the MST release point but it proportionately increases the aerosol removal efficiency, which is adverse and non-conservative. Therefore, the combined aerosol removal efficiencies in Table 9, Columns D & J and penetration in Column E are calculated using the actual flow rates instead of the adjusted flow rates. (Table 9, Columns E and Note J).

The following equation is used to calculate the aerosol removal efficiencies as used in Tables 4 and 4B for the MSIV bypass leakage and Table 6 for the other system bypass leakages.

$$\eta_{\text{filt}} = 1 - \frac{C}{C_{\text{in}}} = 1 - \frac{1}{1 + \frac{\mu_s * A}{Q}}$$

Table 9 was developed to calculate the composite leak rates and aerosol removal efficiencies for two categories (drywell and wetwell) of system bypass pathways. The actual system bypass leak rates are appropriately adjusted (normalized) using the applicable largest multipliers from Table 9 in Column C. The aerosol penetration in Column E is conservatively calculated using the actual system bypass leak rate from Column B, which is used to calculate the combined aerosol removal efficiency in Column J. The composite adjusted flow rates and combined aerosol removal efficiencies are used for the drywell system bypass leakage pathway 5 (Figure 1) and wetwell system bypass leakage pathway 6 (Figure 1) respectively, in Figure 1 and RADTRAD bypass release modeling. The corresponding drywell and wetwell system bypass leak rates at standard temperature and pressure (STP) conditions are calculated in Table 9A.

The CR air intake χ/Q values are developed using site-specific release point locations. Unlike the CR χ/Q values, the offsite χ/Q values for EAB & LPZ are determined for the worst-case release/receptor geometry in the PAVAN code to provide with the bounding sets of the χ/Q values for the overall site release points (ground or stack release). Therefore, the offsite dose χ/Q values need to be corrected using the ratios of actual bypass leak rate to effective bypass leak rate for the drywell system bypass pathway 5 (Figure 1) and wetwell system bypass leakage pathway 6 (Figure 1) as shown in Table 10A and listed below.

Time Interval (hr)	Offsite Receptor	Actual Value A	System Bypass Pathway	
			Drywell B=A*(1)	Wetwell C=A*(2)
Ratio	EAB / LPZ	-	1.22E+00	2.63E+00
Worst 2-hr (Ground-level)	EAB	1.19E-04	1.46E-04	3.13E-04
0-8 hr	LPZ	1.62E-05	1.98E-05	4.26E-05
8-24 hr		1.09E-05	1.33E-05	2.87E-05
24-96 hr		4.59E-06	5.61E-06	1.21E-05
96-720 hr		1.33E-06	1.63E-06	3.50E-06

A From Sections 5.7.2 & 5.7.5

(1) The ratio of G/I from Table 9 DW Bypass

(2) The ratio of G/I from Table 9 DW Bypass

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The modified offsite χ/Q values are used in RADTRAD files NMP2MS02.psf & NMP2MS03.psf for the DW & WW system bypass leakage pathways to calculate the EAB and LPZ doses.

The RADTRAD files for the containment leakage (NMP2CL200.psf), MSIV leakage (NMP2MS00.psf & NMP2MS01.psf), and system bypass leakage (NMP2MS02.psf & NMP2MS03.psf) have all of these release pathways. These pathways, including release rate, can be turned on by releasing it to the environment with the associated removal efficiencies, if any, or turned off by directing it to the Dummy node depending on the specific release pathway being analyzed. For example, for the containment leakage pathway, RADTRAD File NMP2CL200.psf turns on the pathways from DW & WW to RB and RB to environment and turns off the MSIV leakage pathways 7 & 8 and system bypass leakage pathways 5 & 6 by directing releases from the source nodes to the Dummy node by just providing leak rate from each node to balance the activity in the drywell. No other inputs are required for these passive pathways not released to the environment. Similarly, for the MSIV and system leakage bypass pathways, the applicable pathway is postulated to be released to the environment directing the remaining passive pathways to the Dummy node. Other RADTRAD files NMP2CL22.psf, NMP2CL00.psf, and NMP2MS22.psf are treated in a similar manner. *A minor leak rate change in the passive pathways associated with the release to the environment will not impact the resulting dose consequences.*

2.3.4 Outstanding Changes Posted to Bypass Leakage

The various changes posted to or affecting calculation H21C-106, Rev 2 related to bypass leakage pathways are listed in Table 1B (Refs 9.29.1, 9.29.2 & 9.29.3) and appropriately incorporated in the applicable sections of this calculation.

2.4 Control Room Model

The analysis for CR operator radiation exposure from various sources is performed in the following sections using the information from supporting drawings and documents referenced in this section.

The post-LOCA control room RADTRAD nodalization is shown in Figure 4 with the design input parameter values. The post-LOCA radioactive releases that contribute to the CR TEDE dose are as follows:

- Post-LOCA Containment + TIP Leakage (included as 0.12 volume % per day, based on the drywell free air volume)
- Post-LOCA ESF Leakage
- Post-LOCA MSIV & System Bypass Leakages

The radioactivity from the above sources is assumed to be released into the atmosphere and transported to the CR, where it may leak into the CR envelope as unfiltered inleakage or as a filtered intake by the CR intake filtration system prior to being distributed in the CR envelope. The five major radioactive sources which contribute to the CR TEDE dose are:

- Post-LOCA airborne activity inside the CR through filtered intake and unfiltered inleakage
- Post-LOCA airborne cloud external to CR
- Post-LOCA RB shine to CR
- Post-LOCA Control Room Envelope Filtration (CREF) filter shine

2.4.1 Post-LOCA Airborne Activity inside CR through Filtered Intake & Unfiltered Inleakage

The post-LOCA radioactive release pathways from various sources are shown in Figures 1 and 4. The activities released from the various sources are diluted by atmospheric dispersion and transported to the CR air intake. The atmospheric dispersion factors are shown in Sections 5.6.8 through 5.6.12 for the containment, ESF, and bypass leakages. The containment and ESF leakages have the same release point and χ/Q_s . The RADTRAD release models are developed for each release pathway using appropriate design inputs from Sections 5.3 through 5.8. The CR dose model is developed using the design input parameters in Section 5.6. The CR TEDE dose contributions from the airborne post-LOCA activities available inside the CR envelope via filtered intake and unfiltered inleakage are calculated and tabulated in Section 8.1.

2.4.2 Post-LOCA Airborne Cloud External to CR

The post-LOCA radioactive plume contains the radioactive sources from the containment, ESF, and Bypass leakages. The CR whole body (WB) gamma dose from the radioactive external cloud shine will be attenuated by the 2 feet minimum concrete east wall and roof shielding (Ref. 9.28, page 71). The RADTRAD3.03 code calculates the WB gamma dose based on the semi-infinite cloud submergence at the site boundary location (Ref. 9.2, Section 2.3.1 and Ref. 9.1, Section 4.1.4). Therefore, the χ/Q values for the LPZ receptor locations in RADTRAD file NMP2CL200.psf, NMP2ES200.psf, and NMP2MS00.psf are modified in the newly developed RADTRAD files NMP2CL22.psf, NMP2ES22.psf, and NMP2MS22.psf by replacing the LPZ χ/Q values with the corresponding CR air intake χ/Q values. The resulting WB dose at the CR air intake would be due to the semi-infinite cloud submergence of the CR envelope. This WB gamma submergence dose is reduced based on the minimum CR concrete shielding and occupancy factor to calculate the CR dose from the post-LOCA external cloud. The post-LOCA time-dependent WB gamma doses at the CR intake are listed in Table 10 without & with the CR occupancy factors from Section 5.6.13 for all three (3) post-LOCA release pathways. The total post-LOCA external cloud unshielded WB gamma dose in the CR is calculated to be 17.186 rem (Table 10). The 2 feet concrete shielding gamma attenuation factor is calculated to be 0.00427 in Section 7.5 for a 1 MeV gamma emission. This attenuation factor includes the buildup due to multiple scattering. The resulting CR gamma dose from the external cloud shine is 0.0734 rem ($17.186 \text{ rem} \times 0.00427 = 0.0734 \text{ rem}$), which is added with the dose contribution from other post-LOCA sources in Sections 8.1.

2.4.3 Post-LOCA RB Shine to CR

Reactor Building Activities

The post-LOCA activity released from the containment leakage from the drywell & wetwell and ESF leakage from recirculation system in the RB leakage accumulates in the RB volume above the operating floor, which contributes the direct shine dose to CR operators (Figure 5). The activity release from these leakages get homogeneously distributed in 50% of the well-mixed air volume of the RB. 10% higher SGTS exhaust flow rate 4,400 cfm ($=1.10 \times 4,000$) is used in RADTRAD runs NMP2CL200.psf and NMP2ES200.psf because it maximize the CR and offsite doses but it becomes non-conservative for the RB shine dose because it removes a larger amount of activity from the containment volume leaving a lesser amount to contribute the RB shine dose to CR operator. The RADTRAD files NMP2CL200.psf and NMP2ES200.psf are revised using the SGTS flow rate of 3,600 cfm ($=0.90 \times 4,000 \text{ cfm}$) to create RADTRAD input files NMP2CL00.psf (Attachment 13.12) and NMP2ES00.psf (Attachment 13.13). The post-LOCA time-dependent isotopic activity from the containment and ESF leakages are listed in Tables 11 & 12 respectively and are combined in Table 13. The containment and CR shielding geometry

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parameters are calculated in Section 7.6 based on the information obtained from Reference 9.28, pages 71 through 76 and shown in Figure 5.

Reactor Building:

The post-LOCA airborne activity is expected to be confined in the volume above the operating floor area between ELs 386'-10" and 426'-3". The RB cylindrical wall located above EL 386' -10" elevation at radius of 88.0' is a sheet metal wall and is assumed to provide no shielding. The secondary containment airborne source term located above 386' -10" is modeled as a right circular cylinder - MicroShield Geometry (Cylinder Volume - Side Shields). The previous QADMOD shielding model shown in Figure 5 was developed based on the shielding associated with CR and the distance associated with the RB radioactive source volume (Ref. 9.28, Figure 1). The QADMOD code models three-dimensional shielding geometry and accurately calculates the direct shine dose. MicroShield models one-dimensional shielding geometry, which does not accurately model the precision of QADMOD. Therefore, the three-dimensional shielding geometry associated with the RB shine QADMOD shielding model is conservatively translated into a one dimensional MicroShield geometry by translating the source/dose point distance and source volume contributing dose with the fraction shielded by the RB concrete structure. The three-dimensional source/ receptor line-of-sight distance is translated into a straight-line distance in Section 7.6 including the shielded and directly contributing source volumes. A simplified MicroShield geometric model is developed in Figure 6 that conservatively calculates the RB shine dose to the CR operator. The dose point is placed in the north-east corner of the CR, one foot from the north & east walls (see Figure 5). The horizontal line-of-sight distance is calculated in Section 7.6 based on the plan view of the shielding geometry in Figure 5, which is then used to account for vertical elevation difference to calculate the three-dimensional line-of-sight distance for the MicroShield input with the CR concrete wall shielding to determine the CR dose rate as shown in Figure 6. The CR operator is postulated to stand 6 feet tall above the CR floor at EL 306'-0" to calculate the minimum vertical elevation difference between the source and the dose point. The MicroShield model places the CR dose point relative to the center of the cylindrical source.

The shielding geometry dimensions and distances are calculated in Section 7.6 and are used to develop the MicroShield geometric model in Figure 6. The time dependent CR RB shine dose rates are listed in Table 15 and integrated to obtain the 720-day cumulative dose, which is appropriately reduced to compensate for the source volume (Section 7.6.3) in Section 7.7 and added to the dose contribution from other post-LOCA sources in Section 8.1.

2.4.4 Post-LOCA CREF Filter Shine

The NMP2 CR is located at the south-west of the RB (Ref. 9.28, page 75). The same charcoal filter and HEPA filter serve both the intake and recirculation filtration (Figure 4). The CREF intake & Recirculation charcoal filters remove both the elemental & organic iodines and CREF HEPA filter removes the aerosol (particulates). There are two CR filter assemblies (2HVC*FLT2A & 2B). FLT2A is located on EL 288'-6". FLT2B is located on EL 306'-0" almost directly above FLT2A (Ref. 9.28, page 95). Also, it is conservatively assumed that all iodine and particulate activity removed from the CR intake and recirculated air is built up on filter 2HVC*FL T2B, which is on the same elevation as the CR (Ref. 9.28, page 95). The RADTRAD3.03 code calculates the 720-hr cumulative elemental and organic iodine atoms and the aerosol mass accumulated on the CR intake and recirculation filters separately in the RADTRAD output files.

2.4.4.1 Post-LOCA Iodine Activity on CREF Charcoal Filter – Post-LOCA Releases

The total number of elemental iodine and organic iodine atoms accumulated on the CREF charcoal filter and aerosol mass collected on the CREF HEPA filter are listed and summed in Table 16 from the

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RADTRAD output files NMP2CL200.o0 (Attachment 13.2), NMP2ES200.o0 (Attachment 13.3), and NMP2MS00.o0 (Attachment 13.4) for the intake and recirculation charcoal filters. The isotopic iodine atom/curie relationship is established in Table 17 using the containment leakage RADTRAD file NMP2CL200.o0, which is used to convert the total number of iodine atoms on the charcoal filter (Table 16) into isotopic iodine activity in Table 18. Table 18 calculates the total iodine activity of 2.385 Ci on the CREF charcoal. There is 2 feet of concrete shielding between the filter and CR operator (Ref. 9.28, page 97), which will reduce the CR operator dose to an insignificant level. This is as expected, because most of the elemental iodine is removed by drywell spray and a good amount of the remaining elemental iodine is adsorbed in the main steam piping volume before it gets released to the environment where it is further diluted by air dispersion and then filtered by the CR intake and recirculation filter. The post-LOCA iodine loading on the CREF charcoal filters is provided in Table 18. Only iodine activity on the CREF charcoal bed is required to calculate heat load per RG 1.52, Section C.3.k (Ref. 9.33). Therefore, the CREF time-dependent iodine activity loading is provided in Table 18.

2.4.4.2 Post-LOCA Aerosol Activity on CREF HEPA Filter – Post-LOCA Releases

The total aerosol mass deposited on the CREF HEPA filter due to the Containment, ESF, & MSIV leakage pathways are obtained from the RADTRAD output files NMP2CL200.o0 (Attachment 13.2), NMP2ES200.o0 (Attachment 13.3), & NMP2MS00.o0, (Attachment 13.4) listed and summed in Table 16. The resulting aerosol mass is calculated to be 2.972E-07 kg or 0.2972 milligram, which is negligibly small and becomes inconsequential for the filter shine dose. This is as expected, because most of the aerosols get removed by drywell spray and the remaining aerosol further deposited on the horizontal surface areas of MSL piping in the bypass pathways. Therefore, the CREF filter shine dose is considered inconsequential and not added with the dose contribution from other post-LOCA sources in Section 8.1.

2.5 Post-LOCA Iodine Loading on SGTS Filter

Per RG 1.52, Section C.3.k (Ref. 9.33), only iodine activity on the SGTS charcoal bed is required to calculate heat load, therefore, the iodine loading on the SGTS filter is calculated in this section. The time dependent SGTS filter iodine loading is determined in a manner similar to the CREF filter loading as discussed in Section 2.4.4.1. The time-dependent elemental & organic iodine atoms accumulated on the SGTS are listed in Tables 19 & 20 for the containment leakage and ESF leakage, respectively from the RADTRAD output files NMP2CL200.o0 (Attachment 13.2) and NMP2ES200.o0 (Attachment 13.3). It is to be noted here that the MSIV & system leakages bypass the RB and do not contribute to SGTS activity loading. The time-dependent isotopic iodine atom/curie relationships are established in Tables 17 through 17J. These relationships are used to convert the total number of iodine atoms on the charcoal filter (Table 19) into iodine isotopic activities in Table 23.

2.6 Updating UFSAR Section 15.6.5 Tables

The revision of this calculation requires revision of the information in various sections of NMP2 UFSAR Chapter 15.6.5 as noted in Section 12.0 of this calculation. The information for release of post-LOCA activity to the primary containment at the end of the vessel release listed in Table 15.6-14 and the subsequent release of a portion of that activity to the environment in Table 15.6-15b are revised and listed in Tables 25 & 26, respectively.

3.0 ACCEPTANCE CRITERIA

The following NRC regulatory requirement and guidance documents are applicable to this NMP2 AST LOCA Calculation:

- Regulatory Guide 1.183 (Ref. 9.1)

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- 10CFR50.67 (Ref. 9.3)
- Standard Review Plan section 15.0.1 (Ref. 9.15)

Dose Acceptance Criteria are:

Regulatory Dose Limits			
Dose Type	Control Room (30 days) (rem TEDE)	EAB (Max 2 hours) (rem TEDE)	LPZ (30 days) (rem TEDE)
TEDE Dose	5	25	25

4.0 ASSUMPTIONS

The following assumptions used in evaluating the offsite and control room doses resulting from a LOCA are based on the requirements in the RG 1.183 (Ref. 9.1). These assumptions become the design inputs in Sections 5.3 through 5.7 and are incorporated in the analyses.

4.1 Source Term Assumptions

Acceptable assumptions regarding core inventory and the release of radionuclides from the fuel are provided in Sections 3.1 through 3.4 of Reference 9.1 as follows:

4.2 Equilibrium Core Inventory

The assumed increased CAVEX inventory of fission products in the reactor core and available for release to the containment is based on the maximum power level of 4,067 MWt, which represents the maximum full power operation of the core at a power level equal to the Extended Power Uprate (EPU) thermal power level of 3,988 MWt plus a 2% margin for instrument uncertainty (Section 5.3.1.1). The equilibrium core inventory is described in DI 5.3.1.3.

4.3 Release Fractions and Timing

The core inventory release fractions, by radionuclide group, for the gap release and early in-vessel damage phases for a Design Basis Accident (DBA) LOCA are listed in DI 5.3.1.5. These fractions are applied to the equilibrium core inventory (Ref. 9.1, Tables 1 & 4). The release fractions are acceptable for use given that the peak fuel burnup meets the 62,000 MWD/MTU requirement specified in Regulatory Guide 1.183 (Ref. 9.1, Note 10) as shown in DI 5.3.1.2.

4.4 Radionuclide Composition

The elements in each radionuclide group to be considered in design basis analyses are shown in DI 5.3.1.4 (Ref. 9.1, Section 3.4).

4.5 Chemical Form

The long-term suppression pool water pH is greater than 7 during a LOCA (9.12, Section 6.0) with credit taken for sodium pentaborate in the Standby Liquid Control System. Consequently, the chemical forms of radioiodine released to the containment can be assumed to be 95% cesium iodide (CsI), 4.85 percent elemental iodine, and 0.15 percent organic iodide (Ref. 9.1, Sections 3.5 and A.2). These are shown in DI 5.3.1.7. With the exception of elemental and organic iodine and noble gases, fission products are assumed to be in particulate form (Ref. 9.1, Sections 3.5 and A.2).

4.6 Assumptions on Activity Transport in Primary Containment

4.6.1 The radioactivity released from the fuel is assumed to mix instantaneously and homogeneously throughout the free air volume of the primary containment. The radioactivity released from the

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fuel doesn't mix with the suppression pool air space until after two hours, as previously discussed in Section 2.1.2.

4.6.2 Reduction in airborne radioactivity in the containment is credited by the following means:

- Removal of the containment airborne elemental and aerosol iodine by drywell spray (Ref. 9.1, Section A.3.3 and Section 2.1.3.2) using applicable lambdas calculated per guidance in the SRP 6.5.2 (Ref. 9.9). Conservatively, the aerosol lambda is used for elemental iodine removal.

4.6.3 The primary containment and the MSIVs are assumed to leak at the allowable TS peak pressure leak rate for the event duration (Ref. 9.1, Section A.3.7).

- Primary containment and MSIV leakage rates are assumed to reduce by 50% after 24 hrs (Ref. 9.1, Section A.3.7; and Ref. 9.29.2 Item 6.5). This is supported by secondary containment bypass leakage analysis (Ref. 9.29.4), which calculates for 50 scfh MSIV leakage at test conditions and 1 MSIV closed, the initial leakage (39.75 psig drywell pressure) is 61.7 scfh. At 24 hours the drywell pressure is reduced to 15.2 psig, and the corresponding leakage is 29.7 scfh. This supports a 50% reduction in containment leakage at 24 hours.

4.6.4 NMP2 does not purge containment to relieve containment pressure or to reduce containment hydrogen concentration (Section 2.1.6.2). Therefore, the release from containment purging is not analyzed.

4.6.5 The MSIV leakage rate through each MSIV leakage path is assumed to be 100 scfh at 40 psig and the combined leakage rate for all leakage paths is 200 scfh at 40 psig. This assumption converts MSIV leak rates in scfh to actual testing conditions in cfh using the Ideal Gas Law, using the post-LOCA peak pressure of 40.0 psig and a temperature of 340⁰ F (Section 5.3.2.10). The MSIV leakage rates modeled in this analysis appropriately implement the allowable TS MSIV leakage limits.

4.7 Offsite Dose Consequences

The following assumptions are used in determining the TEDE for a maximum exposed individual at EAB and LPZ locations:

4.7.1 The offsite dose is determined as a TEDE, which is the sum of the committed effective dose equivalent (CEDE) from inhalation and the deep dose equivalent (DDE) from external exposure from all radionuclides that are significant with regard to dose consequences and the released radioactivity (Ref. 9.1, Section 4.1.1; and Refs. 9.7 & 9.8). The RADTRAD 3.03 computer code (Ref. 9.2) performs this summation to calculate the TEDE.

4.7.2 The offsite dose analysis uses the Committed Effective Dose Equivalent (CEDE) Dose Conversion Factors (DCFs) for inhalation exposure. (Ref. 9.1, Section 4.1.2; and Ref. 9.7).

4.7.3 Since RADTRAD 3.03 calculates DDE using whole body submergence in a semi-infinite cloud with appropriate credit for attenuation by body tissue, the DDE can be assumed nominally equivalent to the Effective Dose Equivalent (EDE) from external exposure. Therefore, the offsite dose analysis uses EDE in lieu of DDE DCFs in determining external exposure (Ref. 9.1, Section 4.1.4; and Ref. 9.8).

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- 4.7.4 The maximum EAB TEDE for any two-hour period following the start of the radioactivity release is determined and used in determining compliance with the dose acceptance criteria in 10 CFR 50.67 (Ref. 9.1, Section 4.1.5 & Section 4.4; and Ref. 9.3).

EAB Dose Acceptance Criterion: 25 Rem TEDE (50.67(b)(2)(i)) (Ref. 9.3)

- 4.7.5 TEDE is determined for the most limiting receptor at the outer boundary of the low population zone (LPZ) and is used in determining compliance with the dose criteria in 10 CFR 50.67 (Ref. 9.1, Sections 4.1.6 and 4.4; and Ref. 9.3).

LPZ Dose Acceptance Criterion: 25 Rem TEDE (50.67(b)(2)(ii)) (Ref. 9.3)

- 4.7.6 No correction is made for depletion of the effluent plume by deposition on the ground (Ref. 9.1, Section 4.1.7).

- 4.7.7 The breathing rates used for persons at offsite locations are given in Reference 9.1, Sections 4.1.3 & 4.4. These rates are incorporated in DIs 5.7.3 & 5.7.6.

4.8 Control Room Dose Consequences

The following guidance is used in determining the TEDE for maximum exposed individuals located in the control room:

- 4.8.1 The CR TEDE analysis considers the following sources of radiation that will cause exposure to control room personnel (Ref. 9.1, Section 4.2.1). See applicable Design Inputs 5.6.1 through 5.6.13.
- Contamination of the control room atmosphere by the intake of the radioactive material contained in the post-accident radioactive plume released from the facility (via CR filtered air intake) (Section 2.4.1),
 - Contamination of the control room atmosphere by the infiltration of airborne radioactive material from areas and structures adjacent to the control room envelope (via CR unfiltered inleakage) (Section 2.4.1),
 - Radiation shine from the external radioactive plume released from the facility (external airborne cloud) (Section 2.4.2),
 - Radiation RB shine from radioactive material in the reactor containment (Section 2.4.3),
 - Radiation shine from radioactive material in systems and components inside or external to the control room envelope, e.g., radioactive material buildup in recirculation filters (CR filter shine dose) (Section 2.4.4).
- 4.8.2 The radioactivity releases and radiation levels used for the control room dose are determined using the same source term, transport, and release assumptions used for determining the exclusion area boundary (EAB) and the low population zone (LPZ) TEDE values (Ref. 9.1, Section 4.2.2).
- 4.8.3 The occupancy and breathing rate of the maximum exposed individual present in the control room are incorporated in DIs 5.6.13 & 5.6.5 (Ref. 9.1, Section 4.2.6).
- 4.8.4 10 CFR 50.67 (Ref. 9.3) establishes the following radiological criterion for the control room. This criterion is stated for evaluating reactor accidents of exceedingly low probability of

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occurrence and low risk of public exposure to radiation, e.g., a large-break LOCA (Ref. 9.1, Section 4.4).

CR Dose Acceptance Criteria: 5 Rem TEDE (50.67(b)(2)(iii)) (Ref. 9.3)

4.8.5 Credit for engineered safety features that mitigate airborne activity within the control room is taken for control room isolation/pressurization and intake and recirculation filtration (Ref. 9.1, Section 4.2.4). The CR emergency filtration system is conservatively assumed to be initiated at 60 seconds (DI 5.6.2) due to loss-of-offsite-power (LOOP) and system constraints after onset of a LOCA (refer to Figure 4).

4.8.6 The CR unfiltered inleakage is conservatively assumed to be 250 cfm during emergency mode of CREF operation (DI 5.6.6).

4.8.7 No credits for KI pills or respirators are taken (Ref. 9.1, Section 4.2.5).

5.0 DESIGN INPUTS

5.1 General Considerations

5.1.1 Applicability of Prior Licensing Basis

NMP2 is licensed to use the AST and TEDE methodology (Ref. 9.26.1). The NMP2 specific design inputs and assumptions used in the CLB analysis are validated to represent the as-built condition of the plant and further evaluated to make them reasonably conservative with respect to the underlying regulatory requirements and to create dose margin for operational flexibility as discussed in Section 1.0.

5.1.2 Credit for Engineered Safety Features

Credit is taken only for those accident mitigation features that are classified as safety-related, are required to be operable by technical specifications, are powered by emergency power sources, and are either automatically actuated or, in limited cases, have actuation requirements explicitly addressed in emergency operating procedures (Ref. 9.1, Section 5.1.2). The single active component failure that results in the most limiting radiological consequences is assumed. The single active failures considered in this calculation are the MSIV in one main steam line failing to close and the operation of the CREF system failing to start due to a LOOP and a loss of a division of emergency power for Control Room modelling assumptions. The single active component failure that results in the most limiting radiological consequence is assumed (Ref. 9.1, Section 5.1.2).

5.1.3 Assignment of Numeric Input Values

The numeric values that are chosen as inputs to analyses required by 10 CFR 50.67 are compatible with AST and TEDE dose criteria and selected with the objective of to be reasonably conservative. As a conservative alternative, the limiting value applicable to each portion of the analysis is used in the evaluation of that portion. The use of 10% lower flow rates for the CREF intake & recirculation, assuming single failure of the dose mitigating active component (failure of one CREF & SGTS filtration train and failure of one drywell spray pump), not crediting the drywell spray beyond the DF cutoff times, not crediting the inboard piping for aerosol deposition in the system bypass leakage pathways, and use of ground level release χ/Q_s demonstrate the inherent conservatism in the plant design and post-accident response.

5.1.4 Meteorology Considerations

Atmospheric dispersion factors (χ/Q_s) for the onsite and offsite release points are developed (Ref. 9.11) using the NRC sponsored ARCON96 and PAVAN computer codes. These χ/Q values are developed

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using the NMP2 plant-specific meteorological hourly data and appropriate regulatory guidance (Ref. 9.11).

5.2 Accident-Specific Design Inputs/Assumptions

The design inputs/assumptions utilized in the EAB, LPZ, and CR habitability analyses are listed in the following sections. The design inputs are compatible with the requirements of the AST and TEDE dose criteria and the assumptions are consistent with those identified in Regulatory Position 1.1.3 and Appendix A of RG 1.183 (Ref. 9.1). The design inputs and assumptions in the following sections represent the as-built design of the plant.

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Design Input Parameter		Value Assigned		Reference	
5.3 Containment Leakage Model Parameters					
5.3.1 Source Term					
5.3.1.1 Thermal Power Level		4,067 MWt (includes 2% margin over 3,988 MWt)		9.17.7	
5.3.1.2 Peak Fuel Burnup		62,000 MWD/MTU		9.1, Section 3.2, Note 10	
5.3.1.3 CAVEX Isotopic Core Inventory (Ci/MWt) (Table 1)					
Isotope	Ci/MW _t	Isotope	Ci/MW _t	Isotope	Ci/MW _t
Kr-83m	4.05E+03	Ru-105	3.17E+04	Cs-134	6.26E+03
Kr-85m	9.12E+03	Ru-106	1.85E+04	Cs-136	1.91E+03
Kr-85	4.61E+02	Rh-105	2.95E+04	Cs-137	4.86E+03
Kr-87	1.84E+04	Sb-127	2.56E+03	Ba-139	5.20E+04
Kr-88	2.50E+04	Sb-129	7.91E+03	Ba-140	5.06E+04
Rb-86	6.26E+01	Te-127	2.53E+03	La-140	5.11E+04
Rb-88	2.52E+04	Te-127m	4.33E+02	La-141	4.75E+04
Sr-89	3.44E+04	Te-129	7.41E+03	La-142	4.66E+04
Sr-90	3.68E+03	Te-129m	1.42E+03	Ce-141	4.78E+04
Sr-91	4.24E+04	Te-131m	5.38E+03	Ce-143	4.66E+04
Sr-92	4.39E+04	Te-132	3.86E+04	Ce-144	3.83E+04
Y-90	3.81E+03	I-131	2.72E+04	Pr-143	4.56E+04
Y-91	4.31E+04	I-132	3.96E+04	Nd-147	1.86E+04
Y-92	4.44E+04	I-133	5.64E+04	Np-239	5.45E+05
Y-93	4.81E+04	I-134	6.47E+04	Pu-238	1.19E+02
Zr-95	5.09E+04	I-135	5.33E+04	Pu-239	1.20E+01
Zr-97	4.91E+04	Xe-133	5.64E+04	Pu-240	2.12E+01
Nb-95	5.02E+04	Xe-133m	1.73E+03	Pu-241	4.71E+03
Mo-99	5.14E+04	Xe-135	2.37E+04	Am-241	6.66E+00
Tc-99m	4.53E+04	Xe-135m	1.17E+04	Cm-242	1.83E+03
Ru-103	4.45E+04	Xe-138	5.06E+04	Cm-244	1.21E+02
5.3.1.4 Radionuclide Composition					
Group		Elements		9.1, Section 3.4, Table 5	
Noble Gases		Xe, Kr			
Halogens		I, Br			
Alkali Metals		Cs, Rb			
Tellurium Group		Te, Sb, Se			
Barium, Strontium		Ba, Sr			
Noble Metals		Ru, Rh, Pd, Mo, Tc, Co			
Lanthanides		La, Zr, Nd, Eu, Nb, Pm, Pr, Sm, Y, Cm, Am			
Cerium		Ce, Pu, Np			

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Design Input Parameter	Value Assigned	Reference
5.3.1.5 Release Fraction (Ref 9.1, Table 1)		
BWR Core Inventory Fraction Released into Containment		
Group	Gap Release Phase	Early In-Vessel Release Phase
Noble Gases	0.05	0.95
Halogens	0.05	0.25
Alkali Metals	0.05	0.20
Tellurium Metals	0.00	0.05
Ba, Sr	0.00	0.02
Noble Metals	0.00	0.0025
Cerium Group	0.00	0.0005
Lanthanides	0.00	0.0002
5.3.1.6 Timing of Release Phase (Ref. 9.1, Table 4)		
Phase	Onset	Duration
Gap Release	2 min	0.5 hr
Early In-Vessel Release	0.5 hr	1.5 hr
5.3.1.7 Iodine Chemical Form		
Aerosol (CsI)	95%	9.1, Section 3.5
Elemental	4.85%	
Organic	0.15%	
5.3.2 Activity Transport in Primary Containment		
5.3.2.1 Minimum Drywell Air Volume	3.062E+05 ft ³	9.4, Item 3.8.1
5.3.2.2 Minimum Wetwell Air Volume	1.908E+05 ft ³	9.4, Item 3.8.2
5.3.2.3 Drywell plus Wetwell Volume	4.97E+05 ft ³ (=1.908E+05 ft ³ + 3.062E+05)	9.4, Item 3.8
5.3.2.4 Containment Normal Purge Release Time Volume	< 5 sec 247.4 ft ³	9.29.2, Attachment 5 9.29.2, Item 3.18
5.3.2.5 Reactor Building Free Volume	3.88E+06 ft ³ 1.94E+06 Credited for Mixing	9.4, Item 3.17
5.3.2.6 Containment Leak Rate Drywell Wetwell	1.22 v%/day (= 4.21 cfm Total) 102.75 cfm (0-5 minutes) 2.75 cfm (5 min to 24 hrs) 1.375 cfm (> 24 hrs) 1.46 cfm (< 24 hrs) 0.73 cfm (> 24 hrs)	9.29.1, Section 2 9.4, Items 3.10 9.4, Item 3.11
5.3.2.7 Fraction of Reactor Building Available for Mixing	50%	9.4, Item 3.17
5.3.2.8 SGTS Exhaust Rate	3,600 to 4,400 cfm 4,400 cfm used in the analysis to maximize CR & O/S doses; 3,600 cfm used to maximize RB shine dose to CR	9.17.4

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Design Input Parameter	Value Assigned	Reference
5.3.2.9 RB Drawdown Time	1 hr	9.17.5
Leakage during drawdown	2670 cfm	9.4, Item 6.6
5.3.2.10 Post-LOCA Drywell Pressure	40.0 psig	9.4, Item 6.4
Temperature	340°F	
5.3.2.11 SGTs Exhaust Charcoal and HEPA Filter Efficiencies		
Elemental Iodine	99%	Section 7.8
Organic Iodide	99%	9.29.2, Item 4.1
Particulate Aerosols	99%	
5.3.2.12 Mixing Flow Rates: DW to WW WW to DW	8.971E+04 %/day 1.440E+05 %/day	Section 7.11
5.4 ESF Leakage Model Parameters		
5.4.1 Suppression Pool Minimum Water Volume	1.45E+05 ft ³	9.4, Item 3.9
5.4.2 Suppression Pool Water Activity (Ref. 9.1, Tables 1 & 4)		
Group	Gap Release Phase	Early In-Vessel Release Phase
Timing Duration (Hrs)	2 min – 0.50 hr	0.50 – 2.0 hr
Halogen	0.05 hr	0.25
5.4.3 ESF Leakage Rate	60 gpm (failure of six valves) + 2 gpm operational leakage (doubled)	9.4, Item 3.16 & 9.1, Section A5.2
5.4.4 ESF Leakage Duration Time	0 to 30 days	Assumed
5.4.5 Maximum Suppression Pool Water Temperature	202°F	9.4, Item 6.7
5.4.6 Long-Term Suppression Pool Water pH	> 7.0	9.12, Section 6.2, 9.1, Section A.2 9.29.2, Item 7.6
5.4.7 Fraction of Iodine in ESF Leakage that becomes Airborne	0.10	9.1, Section A.5.5
5.4.8 Chemical Form of Iodine in ESF Leakage		
Elemental	97%	9.1, Section A.5.6
Organic	3%	
5.4.9 Fraction of RB Volume for ESF Leakage Mixing	50%	9.4, Item 3.17
5.5 MSIV Leakage Model Parameters		
5.5.1 Total MSIV Leak Rate Through All Four Lines	200 scfh @ 40.0 psig & 340°F	Assumed, Section 2.3.1.3
5.5.2 MSIV Leak Rate Through One Line with MSIV Failed	100 scfh @ 40.0 psig & 340°F	Assumed - Section 2.3.1.3
5.5.3 MSIV Leak Rate Through Three Intact Lines		
First Intact Line	100 scfh @ 40.0 psig & 340°F	Assumed - Section 2.3.1.3
Second Intact Line	0.0	
Third Intact Line	0.0	

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Design Input Parameter	Value Assigned	Reference
5.5.4 MSL Data Internal Area & Volume	Table 2	9.10, Tables 6.1-1, 6.1-2, & 6.1-4
5.5.5 Maximum Steam Line Temperature	558 ⁰ F	9.4, Item 6.3
5.5.6 System Bypass Leakages		
Bypass Pathway	Leakage (scfh)	
MSL Inboard Drains	1.875	9.29.2, Item 3.19 * EC/ECR No. ECP-18-000616-CN-002, “This line was removed by ECP-13-000087, however it is retained in the analysis, however it is most limiting line with regards to fission product deposition in the group of six lines shown.” (Refs. 9.29.2 & 9.29.3, Insert 1)
MSL Outboard Drains	0.625	
Drywell Floor Drain	1.875	
Drywell Floor Drain Tank Vent	0.9375	
Drywell Equip Drain	1.25	
Drywell Equip Drain Tank Vent	0.625	
2in. CPS Line in Drywell	0.625	
PASS Sample A	0.2344	
PASS Sample B	0.2344	
PASS Return A	0.2344	
PASS Return B	0.2344	
IAS Line 1	0.9375	
IAS Line 2	0.9375	
IAS Line 3	3.6	
IAS Line 4		
IAS Line 5		
GSN		
1in. CPS Line 1		
1in. CPS Line 2*		
12in.CPS Line in Wetwell	3.75	
2in.CPS Line in Wetwell	0.625	
Feedwater Line A	12	
Feedwater Line B	12	
RWCU	2.5	
14 in. CPS Line in Drywell	4.38	
5.6 Control Room Model Parameters		
5.6.1 CR Envelope Pressure Boundary Free Volume	3.81E+05 ft ³	9.4, Item 3.2
5.6.2 CREF Flow Rates 0 to 60 sec > 60 sec	750 cfm (unfiltered) 1,350 cfm (filtered)	9.29.2, Items 3.12, 3.13, 3.14 and Attachment 10
5.6.3 CREF & Recirculation Actuation Time	60 seconds	
5.6.4 CREF Recirculation Rate	675 cfm (> 60 seconds, filtered)	
5.6.5 CR Breathing Rate	3.5E-04 m ³ /sec	9.1, Section 4.2.6

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Design Input Parameter	Value Assigned	Reference
5.6.6 CREF Unfiltered Inleakage (includes ingress/egress inleakage of 10 cfm)	0 cfm measured 250 cfm used in analysis	9.29.2, Item 3.15 & Attachment 11 9.4, Item 3.15
5.6.7 CR Emergency Ventilation Mode Intake Charcoal and HEPA Filter Efficiencies		
Elemental Iodine	99%	Section 7.8 9.29.2, Item 4.2
Organic Iodide	99%	
Particulate Aerosols	99%	
5.6.8 CR χ /Qs For Containment & ESF Leakage Release Via SGTS Stack (Station Chimney)		
Time	X/Q (sec/m ³)	9.11, Table 7.3.4 (Worst case value of CR intake) 9.4, Section 5
0-2	8.03E-05	
0-8	4.48E-05	
8-24	1.68E-05	
24-96	1.20E-05	
96-720	8.83E-06	
5.6.9 CR X/Qs For Bypass Leakage Release Via Main Steam Tunnel		
Time	X/Q (sec/m ³)	9.11, Table 7.3.4 (Worst case value of CR intake) 9.4, Section 5
0-2	1.47E-03	
0-8	9.74E-04	
8-24	3.63E-04	
24-96	2.45E-04	
96-720	1.90E-04	
5.6.10 CR X/Qs For Bypass Leakage Release Via Combined Radwaste & Reactor Bldg Vent		
Time	X/Q (sec/m ³)	9.11, Table 7.3.4 (Worst case value of CR intake) 9.4, Section 5
0-2	1.09E-03	
0-8	7.23E-04	
8-24	2.50E-04	
24-96	1.92E-04	
96-720	1.47E-04	
5.6.11 CR X/Qs For Bypass Leakage Release Via Post Accident Sampling System Panel (PASS)		
Time	X/Q (sec/m ³)	9.11, Table 7.3.4 (Worst case value of CR intake) 9.4, Section 5
0-2	3.84E-04	
0-8	2.28E-04	
8-24	8.23E-05	
24-96	6.28E-05	
96-720	4.57E-05	
5.6.12 CR X/Qs For Bypass Leakage Release Via Standby Gas Treatment System Building		
Time	X/Q (sec/m ³)	9.11, Table 7.3.4 (Worst case value of CR intake) 9.4, Section 5
0-2	5.33E-04	
0-8	3.72E-04	
8-24	1.36E-05	
24-96	9.17E-05	
96-720	6.72E-05	

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Design Input Parameter	Value Assigned	Reference
5.6.13 CR Occupancy Factors		
Time (Hr)	%	
0-24	100	9.1, Section 4.2.6
24-96	60	9.4, Section 5
96-720	40	
5.7 Offsite Dose Receptor Release Model Parameters		
5.7.1 EAB X/Qs for Containment & ESF Leakage Release Via SGTS Stack (Station Chimney)		
Time (hrs)	X/Q (sec/m³)	
0-2 (Stack Fumigation)	2.96E-05	9.11, Table 7.2; 9.4, Section 5
5.7.2 EAB X/Q for MSIV Leakage Release Via Main Steam Tunnel		
Time (hrs)	X/Q (sec/m³)	9.11, Table 7.1; 9.4, Section 5
0-720	1.19E-04	
5.7.3 EAB Breathing Rate	3.5E-04 m³/sec	9.1, Section 4.1.3, 9.4, Section 5
5.7.4 LPZ X/Qs for Containment & ESF Leakage Release Via SGTS Stack		
Time (hrs)	X/Q (sec/m³)	
0-2 (Stack Fumigation)	1.42E-05	9.11, Table 7.2, 9.4, Section 5
0-8	1.42E-05	
8-24	5.41E-07	
24-96	2.31E-07	
96-720	7.65E-08	
5.7.5 LPZ X/Qs for Ground Level Release		
Time (hrs)	X/Q (sec/m³)	
0-8	1.62E-05	9.11, Table 7.1, 9.4, Section 5
8-24	1.09E-05	
24-96	4.59E-06	
96-720	1.33E-06	
5.7.6 LPZ Breathing Rates (BR)		
Time (hrs)	BR (m³/sec)	
0-8	3.5E-04	9.1, Section 4.1.3, 9.4, Section 5
8-24	1.8E-04	
24-720	2.3E-04	
5.8 Drywell Spray Parameters		
5.8.1 Spray Average Height	31.5 ft	Section 7.9
5.8.2 Spray Average Flow Rate	5,237.49 gpm	Attachment 13.1
5.8.3 Spray Aerosol & Elemental Removal Rate Constant	19.8 hr ⁻¹	Section 7.9
5.8.4 Spray Initiation Time	20 minutes (manually initiated)	9.30, page 6.2-11
5.9 Shielding Inputs		
5.9.1 CR Roof & East wall Concrete Shielding	2 feet	Ref. 9.28, Page 71

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5.9.2 RB/CR Shielding Geometry	See Sections 2.4.3, 2.4.4 & 7.6	Ref. 9.28, Pages 71 through 76	
5.9.3 CR Filter Elevations	288'-6" / 306'-0"	Ref. 9.28, Page 95	
5.9.4 CR Concrete Shielding Between Filter & Operator	2 feet	Ref. 9.28, Page 97	
5.9.5 Inner Radius of RB Concrete Wall	83'	Ref. 9.28, Page 72	
5.9.6 Outer Radius of RB Concrete Wall	$83 + 2.5' = 85'-6"$		
5.9.7 Radius of RB sheet metal wall	88'		
5.9.8 Concrete Density	2.16 g/cc	Ref. 9.28, Page 22	

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6.0 COMPUTER CODES & COMPLIANCE WITH REGULATORY REQUIREMENTS

6.1 Computer Codes

All computer codes used in this calculation have been approved for use with appropriate Verification and Validation (V&V) documentation. Computer codes used in this analysis include:

- **RADTRAD** (Ref. 9.2): This is an NRC-sponsored code approved for use in determining control room and offsite doses from releases due to reactor accidents. EXELON performed an in-house V&V of the RADTRAD3.03 code (Ref. 9.21). Therefore, the code is considered acceptable to be used for the EXELON AST analyses. RADTRAD also has been approved and documented by Enercon Services, Inc., RADTRAD Computer Software Acceptance (Ref. 9.38). For this calculation, all 18 error notices posted to the RADTRAD Industry Users Group's website (radtrad.com) were reviewed as documented in Attachment 13.18. The input files were executed on the listed computer that is part of the validation and verification package for RADTRAD. Input files for RADTRAD, Version 3.03 were run on machine LAP7-219-MM located in the ENERCON office in Kennesaw Georgia.
- **MicroShield** (Ref. 9.20): A commercially available and accepted code used to determine dose rates at various source-receptor combinations. MicroShield, Version 10.04 is approved for use in this calculation and has been approved and documented by Enercon Services, Inc., MicroShield Computer Software Acceptance (Ref. 9.22). The input files were executed on the listed computer that is part of the validation and verification package for MicroShield. Input files for MicroShield, Version 10.04 were run on machine LAP7-219-MM located in the ENERCON office in Kennesaw Georgia.

6.2 Compliance with Regulatory Requirements

As discussed in Section 4.0, Assumptions, the analysis in this calculation complies with line-by-line requirements in Regulatory Guide 1.183.

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7.0 CALCULATIONS

7.1 NMP2 Plant Specific Nuclide Inventory File (NIF) for RADTRAD3.03 Input

The RADTRAD nuclide inventory nmp2.nif (Attachment 13.14) is a radionuclide power density in Ci/MW_t established using the EPU/CAVEX core inventory listed in Table 1 and used for RADTRAD release models for the containment, ESF, and MSIV /other system bypass leakages.

7.2 Determination of MSIV Leak Rates

7.2.1 Design Basis Case

The total leakage from all main steam lines is 200 scfh at 40 psig, allowing a maximum of 50 scfh at 40 psig from any one of the 4 main steam lines. Because only two main steam lines are modelled in this analysis, each is modelled with a leakage of 100 scfh. The design basis leakage is converted to LOCA conditions using the Ideal Gas Law at 40.0 psig and 340⁰ F.

7.2.2 MSIV Leakage During 0-24 hrs

Drywell volume = 3.062E+05 ft³

Total MSIV leakage measured @ 40.0 psig = 200 scfh (assumed)

Per the ideal gas law, $PV = nRT$ or $PV/T = nR$. Given that nR is a constant for the air leakage, PV/T at post-LOCA conditions is equal to PV/T at STP conditions.

$P @LOCA = \text{Drywell peak pressure} = 40.0 \text{ psig}$

$T @LOCA = \text{Drywell peak temperature} = 340^{\circ}\text{F} = 340^{\circ}\text{F} + 460 = 800^{\circ}\text{R}$

$P @STP = \text{Standard pressure} = 14.7 \text{ psia}$

$T @STP = \text{Standard temperature} = 70^{\circ}\text{F} = 70^{\circ}\text{F} + 460 = 530^{\circ}\text{R}$

$V @STP = \text{MSIV leakage based @ 40.0 psig} = 200 \text{ scfh}$

$V @LOCA = (PV/T @ STP) \times (T/P @ LOCA)$

0-2 hrs MSIV leakage @ drywell peak pressure of 40 psig and temperature of 340⁰F
 $= 200 \text{ scfh} \times [14.7 \text{ psia} / (40 \text{ psig} + 14.7 \text{ psia})] \times [800^{\circ}\text{R} / 530^{\circ}\text{R}]$
 $= 200 \text{ scfh} \times 0.4056 = 81.12 \text{ cfh}$

The 0-24 hrs 200 scfh MSIV leakage is released via four Main Steam Lines (MSLs). A maximum allowable leak rate of 100 scfh is postulated to leak in the shortest MSL with its failed MSIV to close. The balance of allowable leak rate of 100 scfh is postulated to leak in the second shortest intact MSL. The MSIV leakage of 0 scfh is postulated in the remaining intact MSLs 3 & 4.

0-24 hrs allowable leakage from MSL with failed MSIV (at maximum 100 scfh leak rate)

$= (100 \text{ scfh} / 200 \text{ scfh total}) \times 81.12 \text{ cfh} = 40.56 \text{ cfh} = 0.676 \text{ cfm}$

0-24 hrs allowable leakage from intact MSL (at maximum 100 scfh leak rate)

$= (100 \text{ scfh} / 200 \text{ scfh total}) \times 81.12 \text{ cfh} = 40.56 \text{ cfh} = 0.676 \text{ cfm}$

7.2.3 MSIV Leakage During 24-720 hrs

Per RG 1.183, Appendix A, Section 6.2, the postulated MSIV leakage is reduced to 50% of the maximum leak rate after the first 24 hours.

0-24 hrs MSIV leak rate = 40.56 cfh = 0.676 cfm from MSL with failed MSIV (Section 7.2.2)

24-720 hrs allowable leakage from MSL with failed MSIV

$= 40.56 \text{ cfh} / 2 = 20.28 \text{ cfh} = 0.338 \text{ cfm}$

24-720 hrs allowable leakage from intact MSL

$= 40.56 \text{ cfh} / 2 = 20.28 \text{ cfh} = 0.338 \text{ cfm}$

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7.2.4 MSIV Leakage to Environment

0-24 hrs MSIV Leakage to Environment

It is assumed that the post-LOCA activity released in the MSL with the failed inboard MSIV is instantaneously and homogeneously distributed in the single well-mixed volumes of MSL segments between the RPV nozzle and outboard MSIV and the outboard MSIV and Turbine Stop Valve (TSV). The MSIV leakage from the TSV expands to the atmospheric condition as follows:

0-24 hrs Upstream of TSV in MSIV Failed MSL (Section 7.2.2):

$$V1 = 40.56 \text{ cfh} \quad P1 = 40.0 \text{ psig} + 14.7 = 54.7 \text{ psia} \quad T1 = (340^{\circ}\text{F} + 460) = 800^{\circ}\text{R}$$

0-24 hrs Downstream of TSV in MSIV Failed MSL (Atmospheric Condition):

$$V2 = \text{TBD} \quad P2 = 14.7 \text{ psia} \quad T2 = (70^{\circ}\text{F} + 460) = 530^{\circ}\text{R}$$

0-24 hrs MSIV Leakage to Environment from MSIV Failed MSL:

$$\begin{aligned} V2 &= (PV/T @ 1) \times (T/P @ 2) \\ &= (54.7 \text{ psia} \times 40.56 \text{ cfh} / 800^{\circ}\text{R}) \times (530^{\circ}\text{R} / 14.7 \text{ psia}) \\ &= 100.0 \text{ cfh} = 1.667 \text{ cfm} \end{aligned}$$

This is as expected, given that the 40.56 cfh leakage rate is equivalent to 100 scfh upstream of the outboard MSIV, and therefore it is equivalent to 100 cfh downstream of the outboard MSIV in the presence of standard pressure and temperature atmospheric conditions.

0-24 hr Upstream of TSV in Intact MSL (Section 7.2.2):

$$V1 = 40.56 \text{ cfh} \quad P1 = 40.0 \text{ psig} + 14.7 = 54.7 \text{ psia} \quad T1 = (340^{\circ}\text{F} + 460) = 800^{\circ}\text{R}$$

0-24 hrs Downstream of TSV in Intact MSL (Atmospheric Condition):

$$V2 = \text{TBD} \quad P2 = 14.7 \text{ psia} \quad T2 = (70^{\circ}\text{F} + 460) = 530^{\circ}\text{R}$$

0-24 hrs MSIV Leakage to Environment from Intact MSL:

$$\begin{aligned} V2 &= (PV/T @ 1) \times (T/P @ 2) \\ &= (54.7 \text{ psia} \times 40.56 \text{ cfh} / 800^{\circ}\text{R}) \times (530^{\circ}\text{R} / 14.7 \text{ psia}) \\ &= 100 \text{ cfh} = 1.667 \text{ cfm} \end{aligned}$$

24-720 hr MSIV leakages to Environment

The MSIV leakage is reduced by 50% after 24 hours, therefore, the MSIV leakage during 0-24 hrs is reduced by a factor of 2 as follows:

24-720 hrs Upstream of TSV in MSIV Failed MSL (Section 7.2.3):

$$V1 = 20.28 \text{ cfh} \quad P1 = 40.0 \text{ psig} + 14.7 = 54.7 \text{ psia} \quad T1 = (340^{\circ}\text{F} + 460) = 800^{\circ}\text{R}$$

24-720 hrs Downstream of TSV in MSIV Failed MSL (Atmospheric Condition):

$$V2 = \text{TBD} \quad P2 = 14.7 \text{ psia} \quad T2 = (70^{\circ}\text{F} + 460) = 530^{\circ}\text{R}$$

24-720 hrs MSIV Leakage to Environment from MSIV Failed MSL:

$$\begin{aligned} V2 &= (PV/T @ 1) \times (T/P @ 2) \\ &= (54.7 \text{ psia} \times 20.28 \text{ cfh} / 800^{\circ}\text{R}) \times (530^{\circ}\text{R} / 14.7 \text{ psia}) \\ &= 50.0 \text{ cfh} = 0.833 \text{ cfm} \end{aligned}$$

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24-720 hrs Upstream of TSV in Intact MSL (Section 7.2.3):

$$V1 = 20.28 \text{ cfh} \quad P1 = 40.0 \text{ psig} + 14.7 = 54.7 \text{ psia} \quad T1 = (340^{\circ}\text{F} + 460) = 800^{\circ}\text{R}$$

24-720 hrs Downstream of TSV in Intact MSL (Atmospheric Condition):

$$V2 = \text{TBD} \quad P2 = 14.7 \text{ psia} \quad T2 = (70^{\circ}\text{F} + 460) = 530^{\circ}\text{R}$$

24-720 hrs MSIV Leakage to Environment from MSIV Failed Line (MS Line 1):

$$\begin{aligned} V2 &= (PV/T @ 1) \times (T/P @ 2) \\ &= (54.7 \text{ psia} \times 20.28 \text{ cfh} / 800^{\circ}\text{R}) \times (530^{\circ}\text{R} / 14.7 \text{ psia}) \\ &= 50.0 \text{ cfh} = 0.833 \text{ cfm} \end{aligned}$$

The MSIV leak rate information in Section 7.2 above is listed in Table 3 for the total MSIV leakage of 200 scfh. These time dependent MSIV leakage values are used in the RADTRAD runs NMP2MS00.psf and NMP2MS01.psf.

7.3 MSIV Bypass Leakage – MSL Volumes & Surface Area for Plateout of Activity

Calculation H21C-093 (Ref. 9.10) provides the piping data for bypass release pathways. The calculation documents the piping lengths, internal areas, and volumes. The horizontal piping projected areas and horizontal piping volume are calculated for the MSIV bypass and other system bypass leakages in the following sections. Reference 9.10 calculates internal horizontal piping area, which is a product of π , internal diameter (D), and length (L). The projected area can be obtained by dividing the internal area by π in the following sections.

7.3.1 Main Steam Header A

7.3.1.1 Control Volume V_1 for MSIV Failed MSL Between RPV Nozzle & Outboard MSIV (100 scfh)

Horizontal Pipe Volume

= MSL segment between RPV and inboard MSIV + Interstitial volume between inboard & outboard MSIVs

$$= 119.82 \text{ ft}^3 + 59.39 \text{ ft}^3 = 179.21 \text{ ft}^3 \text{ (Ref. 9.10, Table 6.1-1)}$$

Total Pipe Volume V_1

= Horizontal Pipe Volume + Vertical Pipe Volume

$$= 179.21 \text{ ft}^3 + 211.47 \text{ ft}^3 = 390.68 \text{ ft}^3$$

Horizontal Pipe Surface Area

$$= (244.93 \text{ ft}^2) / \pi + (121.41 \text{ ft}^2) / \pi = 77.96 \text{ ft}^2 + 38.65 \text{ ft}^2 = 116.61 \text{ ft}^2 \text{ (Ref. 9.10, Table 6.1-1)}$$

7.3.1.2 Control Volume V_2 for MSIV Failed MSL Between Outboard MSIV & TSV (100 scfh)

Horizontal Pipe Volume

$$= 271.38 \text{ ft}^3 \text{ (Ref. 9.10, Table 6.1-1)}$$

Total Pipe Volume V_2

= Horizontal Pipe Volume + Vertical Pipe Volume

$$= 271.38 \text{ ft}^3 + 157.03 \text{ ft}^3 = 428.41 \text{ ft}^3 \text{ (Ref. 9.10, Table 6.1-1)}$$

Horizontal Pipe Surface Area

$$= (516.31 \text{ ft}^2) / \pi = 164.35 \text{ ft}^2 \text{ (Ref. 9.10, Table 6.1-1)}$$

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7.3.2 Main Steam Header D

7.3.2.1 Control Volume V₃ for MSIV Intact MSL Between RPV Nozzle & Inboard MSIV (100 scfh)

Horizontal Pipe Volume

= MSL segment between RPV and inboard MSIV

= 119.99 ft³ (Ref. 9.10, Table 6.1-4)

Total Pipe Volume V₃

= Horizontal Pipe Volume + Vertical Pipe Volume

= 119.99 ft³ + 211.82 ft³ = 331.81 ft³ (Ref. 9.10, Table 6.1-4)

Horizontal Pipe Surface Area

= (245.28 ft²) / π = 78.07 ft² (Ref. 9.10, Table 6.1-4)

7.3.2.2 Control Volume V₄ for MSIV Intact MSL Between Inboard MSIV & TSV (100 scfh)

Horizontal Pipe Volume

= 59.27 ft³ + 271.31 ft³ = 330.58 ft³ (Ref. 9.10, Table 6.1-4)

Total Pipe Volume V₄

= Horizontal Pipe Volume + Vertical Pipe Volume

= 330.58 ft³ + 156.45 ft³ = 487.03 ft³ (Ref. 9.10, Table 6.1-4)

Horizontal Pipe Surface Area

= (121.15 ft²) / π + (516.17 ft²) / π = 202.86 ft²

These MSIV bypass leakage piping parameters calculated in the above section are listed in Table 2 and used in Tables 4 & 4B to calculate the TEAREs.

7.4 ESF Leak Rates

As stated in Section 2.2.1, the total ESF leakage from all components in the ESF systems is assumed to be 62 gpm that includes 60 gpm of six assumed failure of valves (Ref. 9.4, Item 3.16)- 2RHS*MOV142, 2RHS*S0V35A, 2RHS*S0V36A, 2RHS*MOV149, 2RHS*S0V35B, & 2RHS*S0V36B and 1 gpm of the system leakage, which was doubled (Ref. 9.1, Section A.5.2).

62 gallon/min \times 1/7.4805 ft³/gallon = 8.29 cfm, which is used in RADTRAD files NMP2ES200.psf, NMP2ES00.psf, and NMP2ES22.psf.

7.5 External Cloud Gamma Dose Attenuation Factor

The gamma attenuation for concrete shielding for an external cloud dose is conservatively calculated for an average gamma energy of 1 MeV.

The gamma radiation external radioactive plume shine to the CR personnel is attenuated by the 2'-0" minimum concrete wall shielding (Ref. 9.28, page 71). Gamma dose attenuation for 1'-6" concrete shielding is calculated as follows:

Mass attenuation coefficient for concrete at 1 MeV μ/ρ = 0.0635 cm²/g (Ref. 9.14, Table 3.7)

Density of concrete ρ = 2.16 g/cm³ (Section 5.9.8)

Linear attenuation coefficient μ in concrete = $\mu/\rho \times \rho$ = 0.0635 cm²/g \times 2.16 g/cm³ = 0.137 cm⁻¹

Shielding thickness r = 24 inch \times 2.54 cm/inch = 60.96 cm

μ in concrete shielding = 0.137 cm⁻¹ \times 60.96 cm = 8.35 mean free paths

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Exposure buildup factor for isotropic point source at disintegration energy of 1 MeV and 8.35 mean free paths of the 1 MeV gammas

$$B_p(\mu r) = A_1 e^{-\alpha_1 \mu r} + A_2 e^{-\alpha_2 \mu r} \text{ (Ref. 9.14, page 556)}$$

Where A_1 , A_2 , α_1 , and α_2 are functions of energy, and
 $A_1 + A_2 = 1$

Values of these parameters are obtained from Table 10.3 of Reference 9.14 for 1 MeV gamma in concrete shielding as follows:

$$A_1 = 25.507 \quad \alpha_1 = -0.07230 \quad \alpha_2 = -0.01843 \quad A_2 = 1 - A_1 = 1 - 25.507 = -24.507 \quad \mu r = 8.35$$

Substituting these values in the above equation yields:

$$B_p(\mu r) = 46.65 - 28.58 = 18.07$$

$$\text{Direct Shield Attenuation } I/I_0 = B_p(\mu r) e^{-\mu r}$$

Where

I = shielded gamma dose rate

I_0 = unshielded gamma dose rate

$B_p(\mu r)$ = Exposure buildup factor

Substituting the values of parameters into the above attenuation Equation (1) yields a direct shield attenuation factor of

$$I/I_0 = B_p(\mu r) e^{-\mu r} = 18.07 e^{-(8.35)} = 18.07 \times 2.364E-04 = 0.00427$$

7.6 Containment/CR Shielding Geometry

7.6.1 Dimensions:

The dimensions shown below are taken from Reference 9.28, pages 71 through 74. These dimensions are used in determining the boundaries that define the geometry model for MicroShield.

Horizontal distances from the center line of RB - Figure 5 (Plan View)

CR East Wall = 63' -0"

North Wall = 97'-6"

Vertical Elevations - Figure 5 (Plan View):

RB Roof EL 426'-3"

RB Operating Floor EL 386' -10"

CR Roof EL 328' -0"

CR Floor EL 306'-0"

Control Room wall thicknesses (Ref. 9.28, page 71):

North wall 24" concrete

East Wall 24" concrete

South Wall 24" concrete

West wall 24" concrete

Roof 24" concrete

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RB Dimensions (Ref. 9.28, page 72)

Inner Radius of RB Concrete Wall = 83' -0"

Outer radius of RB concrete wall = (83' -0") + (2' -6") = 85' -6"

Radius of RB sheet metal wall = 88' -0"

Source Volume:

Radioactive source volume is calculated as follows:

Radius of RB sheet metal wall = R = 88' -0"

Height of source = H = (426' -3") - (386' -10") = 39' -5" = 39.42'

Volume = $\pi R^2 H = \pi * (88')^2 * 39.42' = 959,029.21 \text{ ft}^3$

7.6.2 Slant Distance Through 2' CR Concrete Roof

The location of CR is such that the line-of-sight with RB source passes through the CR roof having a thickness of 2 feet (Figure 5)

The slant distance is calculated just above the CR dose point at the bottom of the roof at EL 326' -0"

Minimum vertical elevation difference with the bottom of the RB source

= 386' -10" - 326' -0" = 60' -10" = 60.83'

Horizontal distance at CR dose point = 66.0'

$\tan \theta = 60.83' / 66.0' = 0.922$

$\theta = 42.68^\circ$

$\sin 42.68^\circ = 0.678 = 2' \text{ (CR roof thickness)} / \text{Slant Distance}$

Minimum slant distance through CR concrete roof = $2' / 0.678 = 2.95'$ credited in MicroShield shielding model

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7.6.3 QADMOD Parameters (Figure 5):

Contact dose point (DP) location = 1' from east CR wall

CR wall thickness = 2'

Horizontal east-west distance of CR DP = $63'-0'' + 2.0' + 1.0' = 66.0'$

Horizontal north-south distance of CR DP = $97.5' + 2.0' + 1.0' = 100.5'$

Horizontal line-of-sight distance of CR DP = $[(66')^2 + (100.5')^2]^{1/2} = 120.23'$

Elevation difference between CR operator and RB source = $386'-10'' - (306' + 6') = 74.83'$

Slant line-of-sight distance of CR DP = $[(120.23')^2 + (74.83')^2]^{1/2} = 141.61' \cong 141'$

MicroShield Parameters (Figure 6):

Cylindrical source diameter = $88' \times 2 = 176'$

Cylinder source height = $39'-5'' = 39.42'$

Slant distance of CR dose point from RB centerline = $141'$

CR east wall is modeled 2.95' (slant distance through east wall)

Distance between CR east wall and RB source surface

= $141.0' - (2.95' \text{ concrete thickness} + 1.0' \text{ DP distance from wall}) - 88.0' \text{ (radius of RB)} = 49.05'$

CR Dose Point Coordinates:

$x = 141.0'$

$y = 19.71' (= 39.42' / 2)$

The post-LOCA activity is assumed to distribute in 50% of the RB volume, which is $1.94\text{E}+06 \text{ ft}^3 (= 0.50 \times 3.88\text{E}+06 \text{ ft}^3)$. Therefore, the CR dose from the RB shine is reduced by a factor 0.494 ($= 959,029.21 \text{ ft}^3 / 1.94\text{E}+06 \text{ ft}^3$).

7.6.4 RB Source Volumes:

Figure 5 shows that the location of the CR roof with respect to the projection of the RB radiation source above the operating floor is such that any source within the RB inner radius (83.0') will be shielded by the slant distance in 2.5' of RB concrete wall and CR wall. The RB source volume contributing the CR dose is calculated in the following section.

Angle $\theta = 2 * \text{Cos}^{-1}(38/88) = 2 * \text{Cos}^{-1}(0.432) = 2 * 64.41^\circ = 128.82^\circ$

Area of projected source contributing RB shine dose

$$= \frac{R^2}{2} (\pi/180 * 128.82^\circ - \sin 128.82^\circ)$$

Where

R = Radius of Circle of Which Segment is a Part

C = Central Angle in Degrees

$$= \frac{(88)^2}{2} \left(\frac{3.14 * 128.82}{180} - 0.779 \right) = 3,872 * (2.247 - 0.779) = 3,872 * 1.468 = 5,684.1 \text{ ft}^2$$

Height of RB projected source = $39.42'$

Volume of RB projected source = $5,684.1 \text{ ft}^2 \times 39.42 \text{ ft} = 224,067.22 \text{ ft}^3$

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$$= 224,067.22 \text{ ft}^3 / 959,029.21 \text{ ft}^3 = 0.234$$

The post-LOCA activity is expected to distribute in 50% of the RB volume, which is $1.94\text{E}+06 \text{ ft}^3$ ($= 0.50 \times 3.88\text{E}+06 \text{ ft}^3$). The post-LOCA activity below the operating floor is heavily shielded by the compartment walls, ceilings, floor, and 2.5' of the RB wall. Therefore, the CR dose from the RB shine is reduced by a factor 0.494 ($= 959,029.21 \text{ ft}^3 / 1.94\text{E}+06 \text{ ft}^3$).

Total source volume related reduction factor applicable to the CR dose

= 0.234 x 0.494 = 0.116, which is applied to the RB shine dose to the CR calculated in the following Section 7.7.

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7.7 CR RB shine Dose

720-hr RB shine dose to the CR operator including the control room occupancy factors

= 506.8 mrem = 0.5068 rem (Table 15)

Total source volume related reduction factor = 0.116 (Section 7.6.4)

Total RB shine dose to CR operator

= 0.5068 rem x 0.116 = 5.88E-02 rem, which is added to other post-LOCA dose contributions in Section 8.1

7.8 SGTS and CREF Filtration Efficiencies

HEPA Filter:

In-place penetration testing acceptance criteria for the safety related HEPA filters are as follows:

SGTS System HEPA Filter – in-place testing penetration and system bypass < 0.05% (Ref. 9.17.4, Section 5.5.7.a)

CREF System HEPA Filter – in-place testing penetration and system bypass < 0.05% (Ref. 9.17.4, Section 5.5.7.a)

GL 99-02 (Ref. 9.13) requires a safety factor of at least 2 should be used to determine the filter efficiencies to be credited in the design basis accident.

Testing penetration (%)

= $[(100\% - \eta)/\text{safety factor}] - \text{System Bypass} = [(100\% - \eta)/2] - 0.05$

Where η = SGTS System HEPA filter efficiency to be credited in the analysis

$0.05\% = [(100\% - \eta)/2] - 0.05$

$0.2\% = (100\% - \eta)$

$\eta = 100\% - 0.2\% = 99.8\%$

Testing penetration (%)

= $[(100\% - \eta)/\text{safety factor}] - \text{System Bypass} = [(100\% - \eta)/2] - 0.05$

Where η = CREF System HEPA filter efficiency to be credited in the analysis

$0.05\% = [(100\% - \eta)/2] - 0.05$

$0.2\% = (100\% - \eta)$

$\eta = 100\% - 0.2\% = 99.8\%$

Conservatively, the SGTS & CREF Systems HEPA filter efficiencies of 99% are credited in the analysis.

Charcoal Filter:

Laboratory penetration testing acceptance criteria for the safety related Charcoal filters are as follows:

SGTS System Charcoal Filter – in- laboratory testing methyl iodide penetration and system bypass < 0.05% (Ref. 9.17.4, Section 5.5.7.b)

CREF System Charcoal Filter – in- laboratory testing methyl iodide penetration and system bypass < 0.05% (Ref. 9.17.4, Section 5.5.7.b)

GL 99-02 (Ref. 9.13) requires a safety factor of at least 2 should be used to determine the filter efficiencies to be credited in the design basis accident.

Testing methyl iodide penetration (%)

$$= [(100\% - \eta)/\text{safety factor}] - \text{System Bypass} = [(100\% - \eta)/2] - 0.05$$

Where η = SGTS Vent charcoal filter efficiency to be credited in the analysis

SGTS System Charcoal Filter

$$0.05\% = [(100\% - \eta)/2] - 0.05$$

$$0.2\% = (100\% - \eta)$$

$$\eta = 100\% - 0.2\% = 99.8\%$$

Testing methyl iodide penetration (%)

$$= [(100\% - \eta)/\text{safety factor}] - \text{System Bypass} = [(100\% - \eta)/2] - 0.05$$

Where η = CREF charcoal filter efficiency to be credited in the analysis

CREF Charcoal Filter

$$0.05\% = [(100\% - \eta)/2] - 0.05$$

$$0.2\% = (100\% - \eta)$$

$$\eta = 100\% - 0.2\% = 99.8\%$$

Conservatively, the SGTS & CREF Systems charcoal filter efficiencies of 99% are credited in the analysis.

Safety Grade Filter	Filter Efficiency Credited (%)		
	Aerosol	Elemental	Organic
SGTS System	99	99	99
CREF	99	99	99

The NRC approved the above filtration efficiencies in Reference 9.26.1, Sections 3.2.1.2.1 for SGTS and Section 3.3 for CR.

7.9 Drywell Spray Aerosol Removal Coefficient

The first order removal coefficient for particulate aerosols can be determined by the following equation from Standard Review Plan 6.5.2 (Reference 9.9, Section III.4.c.4, page 6.5.2-11):

$$\lambda_{S, \text{Partic}} = (3 \times h \times F \times E) / (2 \times V \times D)$$

$$\lambda_{S, \text{Partic}} = (3 \times h \times F) \times (E/D) / (2 \times V)$$

where,

$\lambda_{S, \text{Partic}}$ = particulate aerosol removal coefficient by spray wash-out

h = spray drop fall height

F = spray flow

E/D = ratio of a dimensionless collection efficiency (E) to the average spray drop diameter (D)

V = containment building net free volume

Per SRP 6.5.2 (Ref. 9.9, Section III.4.c.4, page 6.5.2-12), since the removal of particulate aerosol material chiefly depends on the relative sizes of the particles and the spray drops, it is convenient to combine parameters that cannot be known. It is conservative to assume E/D to be 10 per meter initially (i.e., 1% efficiency for spray drops of 1 millimeter in diameter), changing abruptly to 1 spray drop per meter after the particulate aerosol mass has been depleted by a factor of 50 (i.e., 98% of the suspended mass is 10 times more readily removed than the remaining 2%).

Per SRP 6.5.2 (Ref. 9.9, Section III.4.d, page 6.5.2-12), because the removal mechanisms for particulate iodines are significantly different from and slower than the mechanisms for elemental iodine, there is no need to limit the DF for particulate iodines. Therefore, the value of $DF > 50$ for particulate iodines is calculated in the following section for information only. The value of $DF \leq 50$ for particulate iodines should be used for the entire duration of CS operation in the dose consequence analysis. The particulate aerosol removal coefficient is calculated as follows:

F = effective spray flow rate (Loop B) = 5,237.49 gal/min (Attachment 13.1)

$F = 5,237.49 \text{ gal/min} \times 0.13368 \text{ ft}^3/\text{gal} \times 0.028317 \text{ m}^3/\text{ft}^3 \times 60 \text{ min/hr} = 1,189.56 \text{ m}^3/\text{hr}$

V = Drywell net free sprayed volume = $3.062\text{E}+05 \text{ ft}^3$ (DI 5.3.2.1)

$V = 3.062\text{E}+05 \text{ ft}^3 \times 0.028317 \text{ m}^3/\text{ft}^3 = 8.671\text{E}+03 \text{ m}^3$

Fall height is assumed to be 50% of full height

Fall Height of DW Spray: Loop B Outer Loop EL303' (Ref. 9.4, Item 7.7)

DW Floor EL 240' (Ref. 9.4, Item 8.1)

Full Height = $303' - 240' = 63'$ and Fall Height $h = 63.00' / 2 = 31.5' \times 0.3048 \text{ m/ft} = 9.60 \text{ m}$

Solving, the particulate aerosol spray removal coefficient equation:

DW Spray Flow of 5,237.49 gpm

For $DF \leq 50$:

$\lambda_{S, \text{Partic}} = (3 \times 9.60 \text{ m} \times 1,189.56 \text{ m}^3/\text{hr}) \times (10 \text{ m}^{-1}) / (2 \times 8.671\text{E}+03 \text{ m}^3)$

$\lambda_{S, \text{Partic}} \cong 19.8 \text{ per hour}$

For $DF > 50$:

$\lambda_{S, \text{Partic}} = (3 \times 9.60 \text{ m} \times 1,189.56 \text{ m}^3/\text{hr}) \times (1 \text{ m}^{-1}) / (2 \times 8.671\text{E}+03 \text{ m}^3)$

$\lambda_{S, \text{Partic}} \cong 1.98 \text{ per hour}$

7.10 Mixing Flow Rate Between DW & WW

The mixing flow rate between the DW and WW is assumed to be $1.908\text{E}+05 \text{ cfm}$ or one WW volume per minute.

$1 \text{ WW vol/min} = 100\%/\text{min} \times 1440 \text{ min/day} = 1.44\text{E}+05 \text{ \%/day}$

$dN/dt = dN/dt \text{ (WW to DW)} - dN/dt \text{ (DW to WW)} = 0$ (mass transfer rate balanced)

Assuming constant thermodynamic conditions and mass flow rate proportional to volumetric flow rate.

WW to DW transfer rate = $1 \text{ vol/min} = 1.908\text{E}+05 \text{ cfm} = \text{DW to WW transfer rate}$ (arbitrary selection of the 1 vol/min)

DW to WW = $1.908\text{E}+05 \text{ cfm} / 3.062\text{E}+05 \text{ ft}^3 = 0.623 \text{ DW vol/min} \times 1440 \text{ min/day} \times 100\% = 8.971\text{E}+04 \text{ \%/day}$

Therefore,

WW to DW = $1.44\text{E}+05 \text{ \%/day}$

DW to WW = $8.971\text{E}+04 \text{ \%/day}$

These volumetric flow rates are used in the RADTRAD inputs for all release pathways except the ESF leakage release pathway.

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8.0 RESULTS SUMMARY & CONCLUSIONS

8.1 Results Summary

The post-LOCA EAB, LPZ, & CR doses due to the increased MSIV leakage of 200 scfh are summarized in the following table:

NMP2 Post-LOCA EAB, LPZ, & CR Doses
Total MSIV Leak Rate of 200 scfh, Max 100 scfh per Line

Post-LOCA Release Pathway / RADTRAD Run	Post-LOCA TEDE Dose (Rem)		
	Receptor Location		
	Control Room	EAB	LPZ
Containment Leakage NMP2CL200.o0	0.468	0.312	0.364
		(occurs @ 0.0 hr)	
ESF Leakage NMP2ES200.o0	0.348	0.185	0.179
		(occurs @ 16.0 hr)	
MSIV Leakage NMP2MS01.o0	0.620	0.135	0.179
		(occurs @ 8 hr)	
Drywell Bypass Leakage NMP2MS02.o0	0.690	0.408	0.178
		(occurs @ 0.8 hr)	
Wetwell Bypass Leakage NMP2MS03.o0	0.017	0.025	0.012
		(occurs @ 2.0 hr)	
Reactor Building Shine	0.059	N/A	N/A
External Cloud	0.073	N/A	N/A
CR Filter Shine	Negligible	N/A	N/A
Total Dose	2.27	1.07	0.91
Allowable TEDE Limit	5	25	25

8.2 Conclusions

The results indicate that the post-LOCA EAB, LPZ, and CR doses due to the increased MSIV leak rate of 200 scfh total is within their allowable TEDE limits with adequate dose margin for the continued safe operation of NMP2.

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- 9.2 S.L. Humphreys, et al., NUREG/CR-6604 (including Supplements 1 and 2), "RADTRAD: A Simplified Model for Radionuclide Transport and Removal and Dose Estimation," (originally published December 1997; Supplement 1 dated June 8, 1999, and Supplement 2 dated October 2002).
- 9.3 10CFR50.67, "Accident Source Term."
- 9.4 PSAT3101CF.QA.03, Revision 1, "Design Data Base for Application of Alternative DBA Source Term to Nine Mile Point 2."
- 9.5 AEB-98-03, Assessment of Radiological Consequences for the Perry Pilot Plant Application Using The Revised (NUREG-1465) Source Term.
- 9.6 Calculation H21C-115, Rev 0, "Design Basis Core Inventories."
- 9.7 EPA-520/1-88-020, Federal Guidance Report 11, Limiting Values of Radionuclide Intake and Air Concentration and Dose Conversion Factors for Inhalation, Submersion and Ingestion."
- 9.8 EPA-402-R-93-081, Federal Guidance Report 12, "External Exposure to Radionuclides in Air, Water and Soil."
- 9.9 NUREG-0800, Standard Review Plan, "Containment Spray as a Fission Product Cleanup System," SRP 6.5.2, Revision 2, 1988.
- 9.10 Calculation H21C-093, "LOCA Bypass Piping Models for Alternative Source Term Methodology", Revision 0
- 9.11 NMP2 Calculation H21C076, "X/Qs for Releases from NMP U1 & U2," Rev. 2, 12/22/2003.
- 9.12 Calculation H21C-097, "Post-LOCA Suppression Pool pH Analysis", Revision 1.
- 9.13 USNRC, "Laboratory Testing of Nuclear-Grade Activated Charcoal," NRC Generic Letter 99-02, June 3, 1999
- 9.14 Introduction to Nuclear Engineering By John Lamarsh, Third Printing, December 1977, Addison-Wesley Publishing Company.
- 9.15 Standard Review Plan Section 15.0.1, Rev. 0, "Radiological Consequence Analyses Using Alternative Source Terms," July 2000
- 9.16 Not used.
- 9.17 NMP2 Technical Specifications and Bases:
 - 9.17.1 Specification 3.6.1.6, Amendment No. 91, "Two RHR drywell spray subsystems shall be OPERABLE."
 - 9.17.2 Specification 3.6.4.1 (Amendment No. 168) and SR 3.6.4.1.5, Amendment No. 169, "The secondary containment shall be OPERABLE."
 - 9.17.3 Specification 3.6.4.3 (Amendment No. 168) and SR 3.6.4.3.2 (Amendment No. 168), "Two SGT subsystems shall be OPERABLE."
 - 9.17.4 Specification 5.5.7, Amendment No. 95, "Ventilation Filter Testing Program (VFTP)."

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- 9.17.5 Surveillance Requirement SR 3.6.4.1.5, Amendment No. 169, “Verify the secondary containment can be maintained ≥ 0.25 inch of vacuum water gauge for 1 hour using one SGT subsystem at a flow rate of ≤ 2670 cfm.”
- 9.17.6 Bases 3.6.1.6, Rev 45, “Primary Containment Isolation Valves (PCIVs).”
- 9.17.7 Specification 1.0, Amendment No. 168, “Rated Thermal Power Level.”
- 9.18 NMP2 UFSAR, Section 15.6.5, Revision 22, “Loss-of-Coolant Accidents (Resulting from Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary) Inside Primary Containment”
- 9.19 Regulatory Issue Summary 2006-04, “Experience with the Implementation of Alternative Source Terms,” March 7, 2006.
- 9.20 MicroShield Computer Code, V&V Version 10.04, Grove Engineering
- 9.21 Exelon DTSQA Number EX0009077 RADTRAD Version 3.03
- 9.22 ENERCON MicroShield, Version 10.04, Computer Software Acceptance Package for Project EXL-009, Revision 0.
- 9.23 NMP2 Calculation No. PR-(C)-27-S, Revision 2, “Decay Heat Rate for SGTS and Control Room Charcoal Filters Post-LOCA.”
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- 9.26.2 Nine Mile Point Nuclear Station, Unit No. 2 - Issuance of Amendment 140 Re: Extended Power Uprate (TAC No. ME1476), December 22, 2011.
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- 9.28 NMP2 Calculation No. PR-(C)-28-E, Revision 2, “Design Basis Loss of Coolant Accident Doses In The Control Room With CREVS MOD N2-98-008.”
- 9.29 Design Analysis Minor Revisions:
- 9.29.1 ADC-11-000648-CN-001 H21C-106-02.00, Rev 0, “Add Calculation for RCIC Timing Modification ECP-10-000716.”
- 9.29.2 ECP-18-000616-CN-002 PSAT3101CF.QA.03-01.00, Rev 0, “Design Data Base for Application of the Revised DBA Source Term to Nine Mile Point Unit 2.”
- 9.29.3 ECP-13-000087-CN-108 H21C-106-02.00, Rev. 0 “Unit 2 LOCA w/LOOP AST Methodology – HCVS Mod and TS 3.6.1.6 Modification.”
- 9.29.4 ECP-18-000616-CN-001 ES-177-05.00, Rev. 0, “Secondary Containment Bypass Leakage.”

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- 9.30 NMP2 UFSAR Section 6.2, Rev 22, “Containment Systems.”
- 9.31 Spray Removal Spreadsheet from H21C-106, Revision 2 (Attachment 13.1).
- 9.32 D.A. Powers et al, “A Simplified Model of Aerosol Removal by Natural Processes in Reactor Containments,” NUREG/CR-6189, USNRC, July 1996.
- 9.33 U.S. NRC Regulatory Guide 1.52, Revision 2, “Design, Testing, And Maintenance Criteria For Postaccident Engineered-Safety-Feature Atmosphere Cleanup System Air Filtration And Adsorption Units of Light-Water-Cooled Nuclear Power Plants.”
- 9.34 NMP2 Severe Accident Procedure N2-SAP-2, Revision 01000, “RPV, Containment, Radioactivity Release Control.”
- 9.35 NMP2 Calculation No. PR-(C)-24-O, Revision 4, “Calculation of Drywell Radiation General Emergency EAL.”
 - 9.35.1 Minor Revision 009718 Rev. 0, to PR-(C)-24-O, “Calculation of Drywell Radiation General Emergency EAL.”
- 9.36 Not used.
- 9.37 Not used.
- 9.38 ENERCON RADTRAD, Version 3.03, Computer Software Acceptance Package for Project EXL-009, Revision 0.
- 9.39 Letter from Michael Marshall (NRC) to Ron Reynolds (Exelon), “Nine Mile Point Nuclear Station, Unit 2– Draft Request for Additional Information Regarding License Amendment Request to Increase Allowable MSIV Leakage Rates (EPID L-2019-LLA-0115),” dated February 14, 2020, (ML20045E358).

10.0 TABLES

Table 1
NMP2 CAVEX Core Inventory

Isotope	Core Inventory (Ci/MWt)	Isotope	Core Inventory (Ci/MWt)	Isotope	Core Inventory (Ci/MWt)
Kr-83m	4.05E+03	Ru-105	3.17E+04	Cs-134	6.26E+03
Kr-85m	9.12E+03	Ru-106	1.85E+04	Cs-136	1.91E+03
Kr-85	4.61E+02	Rh-105	2.95E+04	Cs-137	4.86E+03
Kr-87	1.84E+04	Sb-127	2.56E+03	Ba-139	5.20E+04
Kr-88	2.50E+04	Sb-129	7.91E+03	Ba-140	5.06E+04
Rb-86	6.26E+01	Te-127	2.53E+03	La-140	5.11E+04
Rb-88	2.52E+04	Te-127m	4.33E+02	La-141	4.75E+04
Sr-89	3.44E+04	Te-129	7.41E+03	La-142	4.66E+04
Sr-90	3.68E+03	Te-129m	1.42E+03	Ce-141	4.78E+04
Sr-91	4.24E+04	Te-131m	5.38E+03	Ce-143	4.66E+04
Sr-92	4.39E+04	Te-132	3.86E+04	Ce-144	3.83E+04
Y-90	3.81E+03	I-131	2.72E+04	Pr-143	4.56E+04
Y-91	4.31E+04	I-132	3.96E+04	Nd-147	1.86E+04
Y-92	4.44E+04	I-133	5.64E+04	Np-239	5.45E+05
Y-93	4.81E+04	I-134	6.47E+04	Pu-238	1.19E+02
Zr-95	5.09E+04	I-135	5.33E+04	Pu-239	1.20E+01
Zr-97	4.91E+04	Xe-133	5.64E+04	Pu-240	2.12E+01
Nb-95	5.02E+04	Xe-133m	1.73E+03	Pu-241	4.71E+03
Mo-99	5.14E+04	Xe-135	2.37E+04	Am-241	6.66E+00
Tc-99m	4.53E+04	Xe-135m	1.17E+04	Cm-242	1.83E+03
Ru-103	4.45E+04	Xe-138	5.06E+04	Cm-244	1.21E+02

Core Inventory from Reference 9.6, Table 1

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Table 1A
DW Spray Elemental & Particulate Iodine Cutoff Time

Post-LOCA Time (hr)	Aerosol Atom (kg) A	Elemental Iodine Atom B	Cutoff Value	
			Aerosol (kg) C = A/50	Ele. Iodine Atom D = B/200
2	1.7747E+00	2.1372E+21	3.5494E-02	1.0686E+19
2.2	9.7138E-02	1.1648E+20		
2.25	5.5480E-02	6.6438E+19		
2.3	3.1700E-02	3.7896E+19		
2.35	1.8125E-02	2.1615E+19		
2.45	5.9509E-03	7.0326E+18		
2.5	3.4247E-03	4.0114E+18		

Cutoff Time

2.29**2.42**

A and B from RADTRAD Run NMP2CL11.o0 (Drywell Transport Group Inventory)

Table 1B
Outstanding Minor Revisions Affecting H21C-106 Rev. 2

Minor Revision Document ID	Posted Changes Again H21C-106-02	Changes Incorporated in H21C-106-03
ADC-11-000648-CN-001 H21C-106-02.00 (Ref. 9.29.1)	100 cfm during the first 5 minutes after the event	Sections 2.1.3.2 & 5.3.2.6
ECP-18-000616-CN-002 PSAT3101CF.QA.03-01.00 (Ref. 9.29.2)	Purge Release Volume Change from 230.4 ft ³ to 247.4 ft ³	Section 5.3.2.4
	Insert 1 - Note to 1" CPS Line 2	Section 5.5.6
	2" bypass line volume changed from 215.0 ft ³ to 232 ft ³	Section 5.3.2.4
	GNF2 core inventory	Replaced by CAVEX inventory (Ref. 9.6)
ECP-13-000087-CN-108 H21C-106.02.00 (Ref. 9.29.3)	Insert 1 - Note to 1" CPS Line 2	Section 5.5.6
	1" CPS Line 2 has most limiting aerosol deposition characteristic	Note (1) underneath Table 6
	Conversion ratio of 0.4056 (Insert 3)	Section 2.3.2
	Inserts 4, 5, & 6	Not Applicable to Revision 3 as Table is deleted

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Table 2
Aerosol Horizontal Settling Surface Areas and Volumes

Main Steam Piping Segment	Horizontal		Vertical Volume C ft³	Total Horizontal		Total Volume D = B+C ft³
	Area(3) A ft²	Volume B ft³		Area ft²	Volume ft³	
Main Steam Line A (1)						
RPV Nozzle to Inboard MSIV	77.96	119.82	211.47	116.61	179.21	390.68
Interstitial Between MSIVs	38.65	59.39	0.00			
Outboard MSIV to Cat 1	164.35	271.38	157.03	164.35	271.38	428.41
Main Steam Line D (2)						
RPV Nozzle to Inboard MSIV	78.07	119.99	211.82	78.07	119.99	331.81
Interstitial Between MSIVs	38.56	59.27	0.00	202.86	330.58	487.03
Outboard MSIV to Cat 1	164.30	271.31	156.45			

(1) From Calc H21C-093, Rev 0 (Ref. 9.10), Table 6.1-1

(2) From Calc H21C-093, Rev 0 (Ref. 9.10), Table 6.1-4

(3) Areas calculated as diameter*length

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Table 3**Maximum MSIV Leakage = 100 scfh In Shortest (Failed) MSL****Balance of MSIV Leakage 100 scfh In Second Shortest MSL****Total MSIV Leakage = 200 scfh**

Post- LOCA Time Interval (hr)	MSIV Leak Rate from DW to Various MSL Control Volumes (cfh)/(cfm)					
	Drywell To	Volume V₁	Volume V₂	Drywell To	Volume V₃	Volume V₄
	MSIV Failed	To	To	Intact Line 1	To	To
	Volume V₁ cfh/cfm	Volume V₂ cfh/cfm	Atmosphere cfh/cfm	Volume V₃ cfh/cfm	Volume V₄ cfh/cfm	Atmosphere cfh/cfm
0-24	40.56	40.56	100.00	40.56	40.56	100.00
	0.676	0.676	1.667	0.676	0.676	1.667
24-720	20.28	20.28	50.00	20.28	20.28	50.00
	0.338	0.338	0.833	0.338	0.338	0.833

MSIV Leak Rate Information From Section 7.2

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Table 4

NMP2 MSL Aerosol Removal Efficiency Based on the NRC AEB-98-03 Monte Carlo Settling Velocity Distribution
Total Effective Aerosol Removal Efficiency (TEARE) - MSIV Leakage of 200 scfh

Probability			Settling Velocity (m/sec) A	Settling Velocity (ft/hr) B	Removal Efficiency		MSL A Net Release Fraction E	Removal Efficiency		MSL D Net Release Fraction H
Group	Lower	Upper			MSL A	MSL A		MSL D	MSL D	
	Bound	Bound			Inboard	Outboard		Inboard	Outboard	
					C	D		F	G	
1	0.00%	0.01%	1.170E-04	1.382E+00	79.89%	69.43%	6.15E-06	72.68%	73.71%	7.18E-06
2	0.01%	0.30%	1.331E-04	1.572E+00	81.88%	72.09%	1.47E-04	75.16%	76.13%	1.72E-04
3	0.30%	1.00%	1.661E-04	1.962E+00	84.94%	76.33%	2.49E-04	79.07%	79.92%	2.94E-04
4	1.00%	3.00%	1.965E-04	2.321E+00	86.97%	79.23%	5.41E-04	81.71%	82.48%	6.41E-04
5	3.00%	5.00%	2.509E-04	2.963E+00	89.50%	82.96%	3.58E-04	85.08%	85.74%	4.26E-04
6	5.00%	8.00%	2.967E-04	3.504E+00	90.97%	85.20%	4.01E-04	87.09%	87.67%	4.78E-04
7	8.00%	10.00%	3.589E-04	4.239E+00	92.42%	87.45%	1.90E-04	89.08%	89.58%	2.27E-04
8	10.00%	15.00%	3.995E-04	4.718E+00	93.13%	88.58%	3.92E-04	90.08%	90.54%	4.69E-04
9	15.00%	20.00%	4.971E-04	5.871E+00	94.41%	90.61%	2.63E-04	91.87%	92.25%	3.15E-04
10	20.00%	25.00%	6.015E-04	7.105E+00	95.33%	92.11%	1.84E-04	93.19%	93.51%	2.21E-04
11	25.00%	30.00%	7.104E-04	8.390E+00	96.02%	93.24%	1.35E-04	94.17%	94.45%	1.62E-04
12	30.00%	35.00%	8.229E-04	9.720E+00	96.55%	94.11%	1.02E-04	94.93%	95.17%	1.22E-04
13	35.00%	40.00%	9.510E-04	1.123E+01	97.00%	94.86%	7.72E-05	95.58%	95.80%	9.29E-05
14	40.00%	45.00%	1.093E-03	1.291E+01	97.38%	95.50%	5.91E-05	96.13%	96.32%	7.12E-05
15	45.00%	50.00%	1.235E-03	1.459E+01	97.67%	96.00%	4.66E-05	96.56%	96.73%	5.62E-05
16	50.00%	60.00%	1.383E-03	1.634E+01	97.92%	96.41%	7.49E-05	96.92%	97.07%	9.03E-05
17	60.00%	70.00%	1.689E-03	1.995E+01	98.29%	97.04%	5.07E-05	97.46%	97.59%	6.12E-05
18	70.00%	80.00%	2.099E-03	2.479E+01	98.62%	97.60%	3.31E-05	97.95%	98.05%	4.00E-05
19	80.00%	90.00%	2.606E-03	3.078E+01	98.88%	98.06%	2.17E-05	98.34%	98.42%	2.62E-05
20	90.00%	100.00%	3.478E-03	4.108E+01	99.16%	98.54%	1.23E-05	98.75%	98.81%	1.48E-05
					Total		3.34E-03	Total		3.99E-03
					MSL A Effective Removal Efficiency		99.67%	MSL B Effective Removal Efficiency		99.60%

$$Bi = Ai * 3.28 \text{ ft/m} * 3600 \text{ sec/hr}$$

$$Ci = (1 - (1 / (1 + (Bi * 116.61) / 40.56)))$$

$$Di = (1 - (1 / (1 + (Bi * 164.35) / 100)))$$

$$Ei = (\text{upper bound} - \text{lower bound}) * (1 - Ci) * (1 - Di)$$

$$Fi = (1 - (1 / (1 + (Bi * 78.07) / 40.56)))$$

$$Gi = (1 - (1 / (1 + (Bi * 202.86) / 100)))$$

$$Hi = (\text{upper bound} - \text{lower bound}) * (1 - Fi) * (1 - Gi)$$

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Table 4A

Settling Velocity Probabilistic Distribution - MSIV Leakage of 200 scfh

MSL A Net Settling Velocity J	MSL D Net Settling Velocity K	MSL A Released Settling Velocity Probability Distribution L	Cumulative Probability M	MSL D Released Settling Velocity Probability Distribution N	Cumulative Probability O
93.85%	92.82%	0.18%	0.18%	0.18%	0.18%
94.94%	94.07%	4.39%	4.57%	4.31%	4.49%
96.44%	95.80%	7.46%	12.03%	7.38%	11.87%
97.29%	96.80%	16.19%	28.22%	16.07%	27.95%
98.21%	97.87%	10.70%	38.93%	10.67%	38.62%
98.66%	98.41%	11.99%	50.92%	11.98%	50.60%
99.05%	98.86%	5.69%	56.61%	5.70%	56.31%
99.22%	99.06%	11.73%	68.34%	11.77%	68.07%
99.47%	99.37%	7.85%	76.19%	7.90%	75.97%
99.63%	99.56%	5.51%	81.70%	5.54%	81.51%
99.73%	99.68%	4.02%	85.72%	4.06%	85.57%
99.80%	99.76%	3.04%	88.77%	3.07%	88.64%
99.85%	99.81%	2.31%	91.08%	2.33%	90.97%
99.88%	99.86%	1.77%	92.84%	1.79%	92.76%
99.91%	99.89%	1.39%	94.24%	1.41%	94.17%
99.93%	99.91%	2.24%	96.48%	2.26%	96.43%
99.95%	99.94%	1.52%	97.99%	1.54%	97.97%
99.97%	99.96%	0.99%	98.99%	1.00%	98.97%
99.98%	99.97%	0.65%	99.63%	0.66%	99.63%
99.99%	99.99%	0.37%	100.00%	0.37%	100.00%
		100.00%		100.00%	

$$J_i = 1 - (1 - C_i) * (1 - D_i)$$

$$K_i = 1 - (1 - F_i) * (1 - G_i)$$

$$L_i = E_i / (\text{Total } E_i)$$

$$M_i = \text{Cumulative Probability}$$

$$N_i = H_i / (\text{Total } H_i)$$

$$O = \text{Cumulative Probability}$$

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Table 4B
Effective Aerosol Efficiency and Lambda- MSIV Leakage of 200 scfh

Group	MSL A Penetration		MSL D Penetration		MSL Net Probability
	Inboard	Outboard	Inboard	Outboard	
1	20.11%	30.57%	27.32%	26.29%	0.01%
2	18.12%	27.91%	24.84%	23.87%	0.29%
3	15.06%	23.67%	20.93%	20.08%	0.70%
4	13.03%	20.77%	18.29%	17.52%	2.00%
5	10.50%	17.04%	14.92%	14.26%	2.00%
6	9.03%	14.80%	12.91%	12.33%	3.00%
7	7.58%	12.55%	10.92%	10.42%	2.00%
8	6.87%	11.42%	9.92%	9.46%	5.00%
9	5.59%	9.39%	8.13%	7.75%	5.00%
10	4.67%	7.89%	6.81%	6.49%	5.00%
11	3.98%	6.76%	5.83%	5.55%	5.00%
12	3.45%	5.89%	5.07%	4.83%	5.00%
13	3.00%	5.14%	4.42%	4.20%	5.00%
14	2.62%	4.50%	3.87%	3.68%	5.00%
15	2.33%	4.00%	3.44%	3.27%	5.00%
16	2.08%	3.59%	3.08%	2.93%	10.00%
17	1.71%	2.96%	2.54%	2.41%	10.00%
18	1.38%	2.40%	2.05%	1.95%	10.00%
19	1.12%	1.94%	1.66%	1.58%	10.00%
20	0.84%	1.46%	1.25%	1.19%	10.00%
Eff. Penetration	3.39%	5.69%	4.92%	4.69%	
Efficiency	96.61%	94.31%	95.08%	95.31%	
Lambda (1/hr)	6.44	6.11	6.53	6.14	

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Table 4C
Settling Velocity Probabilistic Distribution - MSIV Leakage of 200 scfh

Group Seq	V (m/s)	Steam Line A			Steam Line D		
		1st Node	2nd Node	Exit	1st Node	2nd Node	Exit
1	1.17E-04	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1	1.17E-04	0.01%	0.06%	0.18%	0.01%	0.06%	0.18%
2	1.33E-04	0.01%	0.06%	0.18%	0.01%	0.06%	0.18%
2	1.33E-04	0.30%	1.61%	4.57%	0.30%	1.52%	4.49%
3	1.66E-04	0.30%	1.61%	4.57%	0.30%	1.52%	4.49%
3	1.66E-04	1.00%	4.71%	12.03%	1.00%	4.49%	11.87%
4	1.97E-04	1.00%	4.71%	12.03%	1.00%	4.49%	11.87%
4	1.97E-04	3.00%	12.40%	28.22%	3.00%	11.92%	27.94%
5	2.51E-04	3.00%	12.40%	28.22%	3.00%	11.92%	27.94%
5	2.51E-04	5.00%	18.59%	38.93%	5.00%	17.98%	38.62%
6	2.97E-04	5.00%	18.59%	38.93%	5.00%	17.98%	38.62%
6	2.97E-04	8.00%	26.57%	50.92%	8.00%	25.85%	50.60%
7	3.59E-04	8.00%	26.57%	50.92%	8.00%	25.85%	50.60%
7	3.59E-04	10.00%	31.04%	56.61%	10.00%	30.28%	56.30%
8	3.99E-04	10.00%	31.04%	56.61%	10.00%	30.28%	56.30%
8	3.99E-04	15.00%	41.16%	68.34%	15.00%	40.35%	68.07%
9	4.97E-04	15.00%	41.16%	68.34%	15.00%	40.35%	68.07%
9	4.97E-04	20.00%	49.40%	76.19%	20.00%	48.61%	75.97%
10	6.02E-04	20.00%	49.40%	76.19%	20.00%	48.61%	75.97%
10	6.02E-04	25.00%	56.28%	81.70%	25.00%	55.53%	81.51%
11	7.10E-04	25.00%	56.28%	81.70%	25.00%	55.53%	81.51%
11	7.10E-04	30.00%	62.14%	85.72%	30.00%	61.45%	85.57%
12	8.23E-04	30.00%	62.14%	85.72%	30.00%	61.45%	85.57%
12	8.23E-04	35.00%	67.23%	88.77%	35.00%	66.60%	88.64%
13	9.51E-04	35.00%	67.23%	88.77%	35.00%	66.60%	88.64%
13	9.51E-04	40.00%	71.66%	91.08%	40.00%	71.09%	90.97%
14	1.09E-03	40.00%	71.66%	91.08%	40.00%	71.09%	90.97%
14	1.09E-03	45.00%	75.53%	92.84%	45.00%	75.02%	92.76%
15	1.24E-03	45.00%	75.53%	92.84%	45.00%	75.02%	92.76%
15	1.24E-03	50.00%	78.96%	94.24%	50.00%	78.51%	94.17%
16	1.38E-03	50.00%	78.96%	94.24%	50.00%	78.51%	94.17%
16	1.38E-03	60.00%	85.10%	96.48%	60.00%	84.77%	96.43%
17	1.69E-03	60.00%	85.10%	96.48%	60.00%	84.77%	96.43%
17	1.69E-03	70.00%	90.15%	97.99%	70.00%	89.92%	97.97%
18	2.10E-03	70.00%	90.15%	97.99%	70.00%	89.92%	97.97%
18	2.10E-03	80.00%	94.23%	98.99%	80.00%	94.09%	98.97%
19	2.61E-03	80.00%	94.23%	98.99%	80.00%	94.09%	98.97%
19	2.61E-03	90.00%	97.53%	99.63%	90.00%	97.46%	99.63%
20	3.48E-03	90.00%	97.53%	99.63%	90.00%	97.46%	99.63%
	3.48E-03	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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Table 4D
CR, EAB, & LPZ Doses - Lambda Vs. Filter Efficiency

	MSIV Leak Rate scfh	Aerosol Removal				Dose Consequence		
		MSL A		MSL D		CR	EAB	LPZ
		Inboard	Outboard	Inboard	Outboard	rem TEDE	rem TEDE	rem TEDE
Effective Lambda (1)	200	6.44	6.11	6.53	6.14	0.6178	0.1420	0.1833
Effective Efficiency (2)		96.61%	94.31%	95.08%	95.31%	0.6184	0.1360	0.1793
20-group Efficiency (3)		H21C-106, Revision 4				0.6204	0.1352	0.1788

(1) From RADTRAD Output File NMP2MS11.o0

(2) From RADTRAD Output File NMP2MS12.o0

(3) From RADTRAD Output File NMP2MS01.o0

Table 5
MSL Elemental Iodine Removal Efficiency

Time (hrs.)	Removal Efficiency
0-720	50%

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Table 6
Aerosol Removal Efficiencies - Other Bypass Leakages

Bypass Leakage Pathways	Bypass Leakage scfh A	Horizontal		Settling Velocity ft/hr D	Product cfh E = C * D	Leakage At Accident Condition cfh F=A*0.4056	Aerosol Removal efficiency G
		Internal Piping Surface Area ft ² B	Projected Internal Surface Area ft ² C = B / π				
MSL Inboard Drains	1.875	42.40	13.50	0.777	1.05E+01	0.7605	93.24%
MSL Outboard Drains	0.625	0.00	0.00	0.777	0.00E+00	0.2535	0.00%
Drywell Floor Drain	1.875	13.41	4.27	0.777	3.32E+00	0.7605	81.35%
Drywell Floor Drain Tank Vent	0.9375	15.44	4.92	0.777	3.82E+00	0.3803	90.95%
Drywell Equip Drain	1.25	14.67	4.67	0.777	3.63E+00	0.5070	87.75%
Drywell Equip Drain Tank Vent	0.625	4.54	1.45	0.777	1.12E+00	0.2535	81.59%
2in.CPS Line in Drywell	0.625	4.57	1.46	0.777	1.13E+00	0.2535	81.69%
PASS Sample A	0.2344	0.22	0.07	0.777	5.44E-02	0.0951	36.41%
PASS Sample B	0.2344	0.22	0.07	0.777	5.44E-02	0.0951	36.41%
PASS Return A	0.2344	0.22	0.07	0.777	5.44E-02	0.0951	36.41%
PASS Return B	0.2344	0.25	0.08	0.777	6.19E-02	0.0951	39.42%
IAS Line 1	0.9375	1.98	0.63	0.777	4.90E-01	0.3803	56.30%
IAS Line 2	0.9375	1.15	0.37	0.777	2.85E-01	0.3803	42.80%
IAS Line 3	3.6	1.43	0.46	0.777	3.54E-01	1.4602	19.40%
IAS Line 4		8.18	2.61	0.777	2.02E+00		
IAS Line 5		1.99	0.63	0.777	4.92E-01		
GSN		1.96	0.62	0.777	4.85E-01		
1in. CPS Line 1		4.17	1.33	0.777	1.03E+00		
1in. CPS Line 2		1.42	0.45	0.777	3.51E-01		
12in.CPS Line in Wetwell	3.75	34.43	10.96	0.777	8.52E+00	1.5210	84.85%
2in.CPS Line in Wetwell	0.625	9.40	2.99	0.777	2.33E+00	0.2535	90.17%
Feedwater Line A	12	72.01	22.93	0.777	1.78E+01	4.8672	78.55%
Feedwater Line B	12	71.90	22.90	0.777	1.78E+01	4.8672	78.52%
RWCU	2.5	26.28	8.37	0.777	6.50E+00	1.0140	86.51%
14 in.CPS Line in Drywell	4.38	40.40	12.87	0.777	1.00E+01	1.7765	84.91%

A From Section 5.5.6

B From Reference 9.10, Table 6.11-2

D = 3rd Percentile Settling Velocity = 6.58E-05 m/sec (Ref. 9.26.1, Section 3.2.1.2.4.2) x 3.28 ft/m x 3600 sec/hr = 0.777 ft/hr

F = cfh @ Accident Condition = [14.7 psia / (40 psig + 14.7 psia)] x [800R / 530R] = 0.4056 cfh

G = Aerosol Removal Efficiency = $\eta = 1 - (1 + E/F)^{-1}$

(1) 1in. CPS Line 2 provides the most limiting characteristic for aerosol deposition because of having the smallest values of A* μ (Column F) for the given volumetric flow yields the lowest aerosol removal efficiency (Ref. 9.29.3, Insert 2)

Table 7
Control Room χ/Q Values - NMP2 Site-specific Release Points

Time (hr)	Control Room χ/Q Values for Various NMP2 Release Points				
	Combined Radwaste & Reactor Bldg Vent	Post Accident Sampling System Panel (PASS)	Standby Gas Treatment Sys Building (SGTS)	Main Steam Tunnel	Main Stack
	(s/m ³) A	(s/m ³) B	(s/m ³) C	(s/m ³) D	(s/m ³) E
0-2	1.09E-03	3.84E-04	5.33E-04	1.47E-03	8.03E-05
2-8	7.23E-04	2.28E-04	3.72E-04	9.74E-04	4.48E-05
8-24	2.50E-04	8.23E-05	1.36E-04	3.63E-04	1.68E-05
24-96	1.92E-04	6.28E-05	9.17E-05	2.45E-04	1.20E-05
96-720	1.47E-04	4.57E-05	6.72E-05	1.90E-04	8.83E-06

A, B, C, D & E from Reference 9.11, Table 7.3.4

Table 8
Control Room χ/Q Normalization Factors

Time (hr)	NMP2 Release Point			
	Combined Radwaste & Reactor Bldg Vent	Post Accident Sampling System Panel (PASS)	Standby Gas Treatment Sys Building (SGTS)	Main Steam Tunnel
0-2	0.74	0.26	0.36	1.00
2-8	0.74	0.23	0.38	1.00
8-24	0.69	0.23	0.37	1.00
24-96	0.78	0.26	0.37	1.00
96-720	0.77	0.24	0.35	1.00

U2 Combined Radwaste & Reactor Vent: Multiplier = 0.78

U2 Post Accident Sampling Sys. Panel (PASS): Multiplier = 0.26

U2 Standby Gas Treatment Sys. Building (SGTS): Multiplier = 0.38

U2 Main Steam Tunnel: Multiplier = 1.00

Table 9
Combined Other Bypass Pathway Aerosol Removal Efficiencies

	X/Q Set	X/Q Multiplier A	Release Path Description	Flowrate (actual) cfh B	Adjusted Flowrate C=A x B	Efficiency D	Penetration E=B*(1-D/100)	Combined Flow Rate		Adjusted Flow Rate		Combined Efficiency J
								cfh F	cfm G = F/60	cfh H	cfm I = H/60	
DW Bypass	Tunnel	1.00	MSL Inboard Drains	0.7605	0.7605	93.24%	0.0514					
			MSL Outboard Drains	0.2535	0.2535	0.00%	0.2535					
	Radwaste	0.78	DW Floor Drain	0.7605	0.5932	81.35%	0.1418					
			DW Floor Drain Tank Vent	0.3803	0.2966	90.95%	0.0344					
			DW Equip. Drain	0.5070	0.3955	87.75%	0.0621					
			DW Equip. Drain Tank Vent	0.2535	0.1977	81.59%	0.0467					
			PASS Sample A	0.0951	0.0247	36.41%	0.0605					
	PASS	0.26	PASS Sample B	0.0951	0.0247	36.41%	0.0605					
			PASS Return A	0.0951	0.0247	36.41%	0.0605					
			PASS Return B	0.0951	0.0247	36.42%	0.0576					
			2 in. CPS Line in DW	0.2535	0.0963	81.69%	0.0464					
	SGTS	0.38	IAS Line 1	0.3803	0.1445	56.30%	0.1662					
			IAS Line 2	0.3803	0.1445	42.80%	0.2175					
			IAS Line 3	0.0000	0.0000	0.00%	0.0000					
			IAS Line 4	0.0000	0.0000	0.00%	0.0000					
			IAS Line 5	0.0000	0.0000	0.00%	0.0000					
WW Bypass	Tunnel	1.00	GSN	0.0000	0.0000	0.00%	0.0000					
			1 in. CPS Line 1	0.0000	0.0000	0.00%	0.0000					
			1 in. CPS Line 2	1.4602	0.5549	19.40%	1.1769					
			Feedwater Line A	4.8672	4.8672	78.55%	1.0442					
			Feedwater Line B	4.8672	4.8672	78.52%	1.0455					
	SGTS	0.38	RWCU	1.0140	1.0140	86.51%	0.1368					
			14 in. CPS Line in DW	1.7765	0.6751	84.91%	0.2681					
			1.2 in. CPS Line in WW	1.5210	0.5780	84.85%	0.2304					
			2 in. CPS Line in WW	0.2535	0.0963	90.17%	0.0249					
								1.7745	0.0296	0.6743	0.0112	85.61%

A From Table 8
 B & D Table 6
 E = Penetration Uses Actual Flowrate
 F = Σcolumn B Actual Flowrate for the Given Release Category
 H = Σcolumn C Adjusted Flowrate for the Given Release Category
 J = 1 - (Σ Column E / Σ Column B)

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Table 9A
System Bypass Leak Rate at STP Condition

System Bypass Leakage ID	Leak Rate @ Accident Condition A cfh	Factor To Convert Accident To STP Conditions B	Leak Rate @ STP Conditions C = A / B scfh
Drywell	14.9595	0.4056	36.88
Wetwell	0.6743	0.4056	1.66

A From Table 9, Column H

B From Section 2.3.2

Table 10
NMP2 Post-LOCA External Cloud WB Doses

Time Interval (hr)	External Cloud WB Dose (rem)	
	Without Occupancy Factor	With Occupancy Factor
Containment Leakage		
0 - 24	1.9162E+00	1.9162E+00
24 -96	2.8440E-01	1.7064E-01
96 - 720	2.9120E-01	1.1648E-01
Total	2.4918E+00	2.2033E+00
RADTRAD Run	NMP2CL22.o0	
ESF Leakage		
0 - 24	8.1247E-01	8.1247E-01
24 -96	4.4013E-01	2.6408E-01
96 - 720	1.1990E-01	4.7960E-02
Total	1.3725E+00	1.1245E+00
RADTRAD Run	NMP2ES22.o0	
MSIV and Bypass Leakage		
0 - 24	1.1757E+01	1.1757E+01
24 -96	1.8870E+00	1.1322E+00
96 - 720	2.4230E+00	9.6920E-01
Total	1.6067E+01	1.3858E+01
RADTRAD Run	NMP2MS22.o0	
Total WB External Cloud Dose		1.7186E+01

Table 10A
Modified Offsite χ/Q Values - System Bypass Pathways 5 & 6

Time Interval (hr)	Offsite Receptor	Actual Value A	System Bypass Pathway	
			Drywell B=A*(1)	Wetwell C=A*(2)
Ratio	EAB / LPZ	-	1.22E+00	2.63E+00
Worst 2-hr (Ground-level)	EAB	1.19E-04	1.46E-04	3.13E-04
0-8 hr	LPZ	1.62E-05	1.98E-05	4.26E-05
8-24 hr		1.09E-05	1.33E-05	2.87E-05
24-96 hr		4.59E-06	5.61E-06	1.21E-05
96-720 hr		1.33E-06	1.63E-06	3.50E-06

A From Sections 5.7.2 & 5.7.5

(1) The ratio of G/H from Table 9 DW Bypass

(2) The ratio of G/H from Table 9 WW Bypass

Table 11
Post-LOCA RB Airborne Isotopic Activity - Containment Leakage

Isotope	Post-LOCA RB Isotopic Activity (Ci) Containment Leakage				
	2.0 hr	8.0 hrs	24.0 hrs	96 hrs	720 hrs
Am-241	1.319E-04	9.314E-05	5.379E-05	2.285E-05	2.191E-05
Ba-139	3.764E+01	1.299E+00	2.390E-04	0.000E+00	0.000E+00
Ba-140	9.968E+01	6.933E+01	3.842E+01	1.355E+01	2.643E+00
Ce-141	2.363E+00	1.659E+00	9.405E-01	3.664E-01	1.688E-01
Ce-143	2.211E+00	1.374E+00	5.642E-01	5.163E-02	8.416E-08
Ce-144	1.895E+00	1.335E+00	7.658E-01	3.157E-01	2.377E-01
Cm-242	3.620E-02	2.550E-02	1.461E-02	5.990E-03	4.303E-03
Cm-244	2.395E-03	1.688E-03	9.700E-04	4.027E-04	3.222E-04
Cs-134	3.605E+02	2.086E+02	7.056E+01	2.077E+01	1.627E+01
Cs-136	1.095E+02	6.256E+01	2.044E+01	5.147E+00	1.043E+00
Cs-137	2.799E+02	1.620E+02	5.483E+01	1.618E+01	1.296E+01
I-131	1.711E+03	1.087E+03	5.140E+02	1.549E+02	1.321E+01
I-132	1.673E+03	3.031E+02	7.514E+01	1.638E+01	5.206E-02
I-133	3.341E+03	1.776E+03	5.212E+02	1.843E+01	1.377E-08
I-134	8.428E+02	4.762E+00	7.635E-06	0.000E+00	0.000E+00
I-135	2.737E+03	9.469E+02	8.846E+01	1.813E-02	0.000E+00
Kr-83m	3.221E+03	2.030E+03	8.944E+00	0.000E+00	0.000E+00
Kr-85	7.726E+02	4.555E+03	7.799E+03	4.127E+03	3.297E+03
Kr-85m	1.122E+04	2.613E+04	3.764E+03	2.894E-02	0.000E+00
Kr-87	1.037E+04	2.322E+03	6.484E-01	0.000E+00	0.000E+00
Kr-88	2.571E+04	3.505E+04	1.209E+03	1.494E-05	0.000E+00
La-140	2.345E+00	8.148E+00	1.287E+01	1.191E+01	3.070E+00
La-141	6.606E-01	1.617E-01	5.526E-03	7.009E-09	0.000E+00
La-142	3.752E-01	1.782E-02	7.694E-06	0.000E+00	0.000E+00
Mo-99	1.245E+01	8.242E+00	4.004E+00	7.805E-01	8.926E-04
Nb-95	9.935E-01	7.004E-01	4.025E-01	1.669E-01	1.247E-01
Nd-147	3.662E-01	2.541E-01	1.400E-01	4.810E-02	7.477E-03
Np-239	2.631E+01	1.723E+01	8.139E+00	1.398E+00	5.325E-04
Pr-143	9.047E-01	6.480E-01	3.820E-01	1.529E-01	3.371E-02
Pu-238	5.888E-03	4.151E-03	2.386E-03	9.909E-04	7.972E-04

Table 11 (Cont'd)
Post-LOCA RB Airborne Isotopic Activity - Containment Leakage

Isotope	Post-LOCA RB Isotopic Activity (Ci)				
	Containment Leakage				
	2.0 hr	8.0 hrs	24.0 hrs	96 hrs	720 hrs
Pu-239	5.939E-04	4.191E-04	2.413E-04	1.007E-04	8.111E-05
Pu-240	1.049E-03	7.395E-04	4.249E-04	1.765E-04	1.416E-04
Pu-241	2.330E-01	1.643E-01	9.440E-02	3.918E-02	3.134E-02
Rb-86	3.594E+00	2.061E+00	6.805E-01	1.797E-01	5.487E-02
Rb-88	2.101E+04	4.391E+04	3.663E+03	4.528E-05	0.000E+00
Rh-105	7.276E+00	4.850E+00	2.122E+00	2.159E-01	8.440E-07
Ru-103	1.099E+01	7.716E+00	4.382E+00	1.726E+00	8.752E-01
Ru-105	5.739E+00	1.586E+00	7.496E-02	4.088E-07	0.000E+00
Ru-106	4.576E+00	3.225E+00	1.851E+00	7.641E-01	5.838E-01
Sb-127	1.248E+01	8.410E+00	4.286E+00	1.037E+00	7.713E-03
Sb-129	2.839E+01	7.644E+00	3.371E-01	1.346E-06	0.000E+00
Sr-89	6.800E+01	4.778E+01	2.721E+01	1.084E+01	6.088E+00
Sr-90	7.283E+00	5.135E+00	2.950E+00	1.225E+00	9.811E-01
Sr-91	7.252E+01	3.300E+01	5.901E+00	1.282E-02	0.000E+00
Sr-92	5.209E+01	7.916E+00	7.596E-02	3.170E-10	0.000E+00
Tc-99m	1.119E+01	7.695E+00	4.010E+00	8.001E-01	9.151E-04
Te-127	1.251E+01	8.722E+00	4.782E+00	1.346E+00	2.606E-01
Te-127m	2.142E+00	1.511E+00	8.678E-01	3.582E-01	2.482E-01
Te-129	3.210E+01	1.154E+01	2.900E+00	9.472E-01	4.445E-01
Te-129m	7.026E+00	4.943E+00	2.806E+00	1.095E+00	5.141E-01
Te-131m	2.542E+01	1.560E+01	6.194E+00	4.873E-01	2.142E-07
Te-132	1.876E+02	1.254E+02	6.255E+01	1.372E+01	4.361E-02
Xe-133	9.399E+04	5.372E+05	8.444E+05	3.032E+05	7.919E+03
Xe-133m	2.858E+03	1.563E+04	2.176E+04	4.536E+03	1.126E+00
Xe-135	4.015E+04	1.546E+05	7.832E+04	1.714E+02	0.000E+00
Xe-135m	1.678E+03	1.688E+02	4.104E+01	8.410E-03	0.000E+00
Xe-138	2.424E+02	3.336E-05	0.000E+00	0.000E+00	0.000E+00
Y-90	1.368E-01	4.042E-01	6.580E-01	7.915E-01	9.863E-01
Y-91	8.646E-01	6.572E-01	4.095E-01	1.705E-01	1.005E-01
Y-92	9.113E+00	1.286E+01	7.282E-01	3.101E-07	0.000E+00
Y-93	8.298E-01	3.876E-01	7.428E-02	2.204E-04	0.000E+00
Zr-95	1.006E+00	7.076E-01	4.037E-01	1.623E-01	9.824E-02
Zr-97	8.952E-01	4.935E-01	1.471E-01	3.187E-03	0.000E+00

Post-LOCA RB Isotopic Activity from RADTRAD Run NMP2CL00.o0

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Table 12
Post-LOCA RB Airborne Isotopic Activity - ESF Leakage

Isotope	Post-LOCA RB Isotopic Activity ESF Leakage				
	2.0 hr	8.0 hrs	24.0 hrs	96 hrs	720 hrs
I-131	9.6801E+03	5.2598E+04	8.1956E+04	5.3989E+04	6.7487E+02
I-132	9.7737E+03	9.6805E+03	1.2958E+02	4.1727E-08	0.0000E+00
I-133	1.8905E+04	8.5927E+04	8.3203E+04	6.4441E+03	7.0576E-07
I-134	4.7687E+03	2.3041E+02	1.2189E-03	0.0000E+00	0.0000E+00
I-135	1.5484E+04	4.5817E+04	1.4123E+04	6.3385E+00	0.0000E+00
Xe-133	6.9554E+02	2.1807E+04	1.0756E+05	1.6065E+05	6.9275E+02
Xe-133m	4.8569E+01	1.4814E+03	6.7547E+03	6.8043E+03	3.0048E-01
Xe-135	7.9564E+03	1.6717E+05	2.6702E+05	2.4170E+03	0.0000E+00
Xe-135m	7.9576E+03	1.3021E+04	7.0682E+03	3.1526E+00	0.0000E+00

Post-LOCA RB Isotopic Activity from RADTRAD Run NMP2ES00.o0

Table 13
Post-LOCA RB Airborne Isotopic Activity - Containment + ESF Leakages

Isotope	Post-LOCA RB Isotopic Activity (Ci) Containment + ESF Leakages				
	2.0 hr	8.0 hrs	24.0 hrs	96 hrs	720 hrs
Am-241	1.319E-04	9.314E-05	5.379E-05	2.285E-05	2.191E-05
Ba-139	3.764E+01	1.299E+00	2.390E-04	0.000E+00	0.000E+00
Ba-140	9.968E+01	6.933E+01	3.842E+01	1.355E+01	2.643E+00
Ce-141	2.363E+00	1.659E+00	9.405E-01	3.664E-01	1.688E-01
Ce-143	2.211E+00	1.374E+00	5.642E-01	5.163E-02	8.416E-08
Ce-144	1.895E+00	1.335E+00	7.658E-01	3.157E-01	2.377E-01
Cm-242	3.620E-02	2.550E-02	1.461E-02	5.990E-03	4.303E-03
Cm-244	2.395E-03	1.688E-03	9.700E-04	4.027E-04	3.222E-04
Cs-134	3.605E+02	2.086E+02	7.056E+01	2.077E+01	1.627E+01
Cs-136	1.095E+02	6.256E+01	2.044E+01	5.147E+00	1.043E+00
Cs-137	2.799E+02	1.620E+02	5.483E+01	1.618E+01	1.296E+01
I-131	1.139E+04	5.369E+04	8.247E+04	5.414E+04	6.881E+02
I-132	1.145E+04	9.984E+03	2.047E+02	1.638E+01	5.206E-02
I-133	2.225E+04	8.770E+04	8.372E+04	6.463E+03	7.195E-07
I-134	5.611E+03	2.352E+02	1.227E-03	0.000E+00	0.000E+00
I-135	1.822E+04	4.676E+04	1.421E+04	6.357E+00	0.000E+00
Kr-83m	3.221E+03	2.030E+03	8.944E+00	0.000E+00	0.000E+00
Kr-85	7.726E+02	4.555E+03	7.799E+03	4.127E+03	3.297E+03
Kr-85m	1.122E+04	2.613E+04	3.764E+03	2.894E-02	0.000E+00
Kr-87	1.037E+04	2.322E+03	6.484E-01	0.000E+00	0.000E+00
Kr-88	2.571E+04	3.505E+04	1.209E+03	1.494E-05	0.000E+00
La-140	2.345E+00	8.148E+00	1.287E+01	1.191E+01	3.070E+00
La-141	6.606E-01	1.617E-01	5.526E-03	7.009E-09	0.000E+00
La-142	3.752E-01	1.782E-02	7.694E-06	0.000E+00	0.000E+00
Mo-99	1.245E+01	8.242E+00	4.004E+00	7.805E-01	8.926E-04
Nb-95	9.935E-01	7.004E-01	4.025E-01	1.669E-01	1.247E-01
Nd-147	3.662E-01	2.541E-01	1.400E-01	4.810E-02	7.477E-03
Np-239	2.631E+01	1.723E+01	8.139E+00	1.398E+00	5.325E-04
Pr-143	9.047E-01	6.480E-01	3.820E-01	1.529E-01	3.371E-02
Pu-238	5.888E-03	4.151E-03	2.386E-03	9.909E-04	7.972E-04

Table 13 (Cont'd)

Post-LOCA RB Airborne Isotopic Activity - Containment +ESF Leakages

Isotope	Post-LOCA RB Isotopic Activity (Ci) Containment + ESF Leakages				
	2.0 hr	8.0 hrs	24.0 hrs	96 hrs	720 hrs
Pu-239	5.939E-04	4.191E-04	2.413E-04	1.007E-04	8.111E-05
Pu-240	1.049E-03	7.395E-04	4.249E-04	1.765E-04	1.416E-04
Pu-241	2.330E-01	1.643E-01	9.440E-02	3.918E-02	3.134E-02
Rb-86	3.594E+00	2.061E+00	6.805E-01	1.797E-01	5.487E-02
Rb-88	2.101E+04	4.391E+04	3.663E+03	4.528E-05	0.000E+00
Rh-105	7.276E+00	4.850E+00	2.122E+00	2.159E-01	8.440E-07
Ru-103	1.099E+01	7.716E+00	4.382E+00	1.726E+00	8.752E-01
Ru-105	5.739E+00	1.586E+00	7.496E-02	4.088E-07	0.000E+00
Ru-106	4.576E+00	3.225E+00	1.851E+00	7.641E-01	5.838E-01
Sb-127	1.248E+01	8.410E+00	4.286E+00	1.037E+00	7.713E-03
Sb-129	2.839E+01	7.644E+00	3.371E-01	1.346E-06	0.000E+00
Sr-89	6.800E+01	4.778E+01	2.721E+01	1.084E+01	6.088E+00
Sr-90	7.283E+00	5.135E+00	2.950E+00	1.225E+00	9.811E-01
Sr-91	7.252E+01	3.300E+01	5.901E+00	1.282E-02	0.000E+00
Sr-92	5.209E+01	7.916E+00	7.596E-02	3.170E-10	0.000E+00
Tc-99m	1.119E+01	7.695E+00	4.010E+00	8.001E-01	9.151E-04
Te-127	1.251E+01	8.722E+00	4.782E+00	1.346E+00	2.606E-01
Te-127m	2.142E+00	1.511E+00	8.678E-01	3.582E-01	2.482E-01
Te-129	3.210E+01	1.154E+01	2.900E+00	9.472E-01	4.445E-01
Te-129m	7.026E+00	4.943E+00	2.806E+00	1.095E+00	5.141E-01
Te-131m	2.542E+01	1.560E+01	6.194E+00	4.873E-01	2.142E-07
Te-132	1.876E+02	1.254E+02	6.255E+01	1.372E+01	4.361E-02
Xe-133	9.468E+04	5.590E+05	9.520E+05	4.638E+05	8.612E+03
Xe-133m	2.907E+03	1.711E+04	2.851E+04	1.134E+04	1.426E+00
Xe-135	4.811E+04	3.218E+05	3.453E+05	2.588E+03	0.000E+00
Xe-135m	9.636E+03	1.319E+04	7.109E+03	3.161E+00	0.000E+00
Xe-138	2.424E+02	3.336E-05	0.000E+00	0.000E+00	0.000E+00
Y-90	1.368E-01	4.042E-01	6.580E-01	7.915E-01	9.863E-01
Y-91	8.646E-01	6.572E-01	4.095E-01	1.705E-01	1.005E-01
Y-92	9.113E+00	1.286E+01	7.282E-01	3.101E-07	0.000E+00
Y-93	8.298E-01	3.876E-01	7.428E-02	2.204E-04	0.000E+00
Zr-95	1.006E+00	7.076E-01	4.037E-01	1.623E-01	9.824E-02
Zr-97	8.952E-01	4.935E-01	1.471E-01	3.187E-03	0.000E+00

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Table 14
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Table 15
Post-LOCA NMP2 RB Shine Integrated Gamma Dose to NMP2 CR
(Without Total Source Volume Related Reduction Factor)

Post-LOCA Period t (hr)	Control Room Gamma Dose Rate (mrem/hr)	Control Room Integrated Gamma Dose (w/o CROF) (mrem)	Control Room Occupancy Factor (unitless)	Control Room Integrated Gamma Dose (with CROF) (mrem)	Control Room Cumulative Gamma Dose (mrem)	MicroShield Run No.
2	2.017E+01	2.017E+01	1.0	2.017E+01	2.017E+01	NMP2CS02.MSD
8	2.876E+01	1.468E+02	1.0	1.468E+02	1.670E+02	NMP2CS08.MSD
24	3.487E+00	2.580E+02	1.0	2.580E+02	4.249E+02	NMP2CS24.MSD
96	4.370E-02	1.271E+02	0.6	7.626E+01	5.012E+02	NMP2CS96.MSD
720	1.015E-03	1.395E+01	0.4	5.580E+00	5.068E+02	NMP2C720.MSD
720-hrs Cumulative Gamma Dose					5.068E+02	

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Table 16**720 hr - Post-LOCA Total Elemental & Organic Iodine Inventory and Aerosol Mass on CREF Filter**

Post-LOCA Release Path	CR Filter	Elemental Iodine (atom)	Organic Iodine (atom)	Aerosol Mass (kg)	Reference RADTRAD Run
Containment Leakage	Recirc Filter	1.0748E+13	1.0389E+12	1.0712E-08	NMP2CL200.o0
	Intake Filter	1.9291E+14	1.8411E+13	1.8429E-07	
ESF Leakage	Recirc Filter	3.7674E+14	1.1652E+13	0.0000E+00	NMP2ES200.o0
	Intake Filter	6.6470E+15	2.0558E+14	0.0000E+00	
MSIV and Bypass Leakage	Recirc Filter	2.0477E+13	3.7873E+14	5.6357E-09	NMP2MS00.o0
	Intake Filter	3.6346E+14	6.6225E+15	9.6590E-08	
Total		7.6113E+15	7.2379E+15	2.9723E-07	
Total (Elemental + Organic) Iodine Atom		1.4849E+16			

Table 17
Conversion of Iodine Activity into Iodine Atom

Isotope	CR Region @ 0.5 hr		Iodine Atoms Per (Curie) $C_i = B_i / A_i$	Isotopic Iodine Fraction $D_i = B_i / \Sigma B$
	Activity (Curie) A	Atoms B		
I-131	6.082E-03	2.255E+14	3.708E+16	7.654E-01
I-132	7.732E-03	3.418E+12	4.420E+14	1.160E-02
I-133	1.243E-02	4.967E+13	3.997E+15	1.686E-01
I-134	9.761E-03	1.644E+12	1.685E+14	5.581E-03
I-135	1.133E-02	1.439E+13	1.270E+15	4.884E-02
Total		2.947E+14		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 0.5 hr from
CR Compartment Nuclide Inventory

Table 17A
2-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 2.0 hr		Iodine Atoms Per (Curie) $C_i = B_i / A_i$	Isotopic Iodine Fraction $D_i = B_i / \Sigma B$
	Activity (Curie) A	Atoms B		
I-131	1.675E+03	6.211E+19	3.708E+16	7.817E-01
I-132	1.640E+03	7.250E+17	4.420E+14	9.125E-03
I-133	3.271E+03	1.308E+19	3.997E+15	1.646E-01
I-134	8.252E+02	1.390E+17	1.685E+14	1.750E-03
I-135	2.680E+03	3.404E+18	1.270E+15	4.284E-02
Total		7.945E+19		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 2.0 hr from
RB Compartment Nuclide Inventory

Table 17B
4-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 4.0 hr		Iodine Atoms Per (Curie) $C_i = B_i / A_i$	Isotopic Iodine Fraction $D_i = B_i / \Sigma B$
	Activity (Curie) A	Atoms B		
I-131	1.377E+03	5.104E+19	3.708E+16	7.995E-01
I-132	8.417E+02	3.720E+17	4.420E+14	5.827E-03
I-133	2.533E+03	1.012E+19	3.997E+15	1.586E-01
I-134	1.405E+02	2.367E+16	1.685E+14	3.707E-04
I-135	1.798E+03	2.284E+18	1.270E+15	3.577E-02
Total		6.384E+19		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 4.0 hr from
RB Compartment Nuclide Inventory

Table 17C
8-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 8.0 hr		Iodine Atoms Per (Curie) Ci = Bi /Ai	Isotopic Iodine Fraction Di = Bi/ΣB
	Activity (Curie)	Atoms		
	A	B		
I-131	9.377E+02	3.477E+19	3.708E+16	8.269E-01
I-132	2.636E+02	1.165E+17	4.420E+14	2.771E-03
I-133	1.532E+03	6.122E+18	3.997E+15	1.456E-01
I-134	4.107E+00	6.919E+14	1.685E+14	1.645E-05
I-135	8.167E+02	1.037E+18	1.270E+15	2.467E-02
Total		4.205E+19		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 8.0 hr from
RB Compartment Nuclide Inventory

Table 17D
16-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 16 hr		Iodine Atoms Per (Curie) Ci = Bi /Ai	Isotopic Iodine Fraction Di = Bi/ΣB
	Activity (Curie)	Atoms		
	A	B		
I-131	5.367E+02	1.990E+19	3.708E+16	8.667E-01
I-132	8.309E+01	3.673E+16	4.420E+14	1.599E-03
I-133	6.907E+02	2.761E+18	3.997E+15	1.202E-01
I-134	4.329E-03	7.293E+11	1.685E+14	3.176E-08
I-135	2.078E+02	2.639E+17	1.270E+15	1.149E-02
Total		2.296E+19		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 16 hr from
RB Compartment Nuclide Inventory

Table 17E
24-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 24 hr		Iodine Atoms Per (Curie) Ci = Bi /Ai	Isotopic Iodine Fraction Di = Bi/ΣB
	Activity (Curie)	Atoms		
	A	B		
I-131	3.978E+02	1.475E+19	3.708E+16	8.953E-01
I-132	5.923E+01	2.618E+16	4.420E+14	1.589E-03
I-133	4.033E+02	1.612E+18	3.997E+15	9.786E-02
I-134	5.909E-06	9.955E+08	1.685E+14	6.042E-11
I-135	6.846E+01	8.696E+16	1.270E+15	5.278E-03
Total		1.648E+19		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 24 hr from
RB Compartment Nuclide Inventory

Table 17F
48-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 48 hr		Iodine Atoms Per (Curie) Ci = Bi /Ai	Isotopic Iodine Fraction Di = Bi/ΣB
	Activity (Curie) A	Atoms B		
I-131	1.609E+02	5.966E+18	3.708E+16	9.473E-01
I-132	2.184E+01	9.655E+15	4.420E+14	1.533E-03
I-133	7.985E+01	3.192E+17	3.997E+15	5.068E-02
I-135	2.435E+00	3.093E+15	1.270E+15	4.910E-04
Total		6.298E+18		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 48 hr from
 RB Compartment Nuclide Inventory

Table 17G
96 hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 96 hr		Iodine Atoms Per (Curie) Ci = Bi /Ai	Isotopic Iodine Fraction Di = Bi/ΣB
	Activity (Curie) A	Atoms B		
I-131	1.266E+02	4.694E+18	3.708E+16	9.861E-01
I-132	1.339E+01	5.916E+15	4.420E+14	1.243E-03
I-133	1.507E+01	6.022E+16	3.997E+15	1.265E-02
I-135	1.482E-02	1.882E+13	1.270E+15	3.955E-06
Total		4.760E+18		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 96 hr from
 RB Compartment Nuclide Inventory

Table 17H
240-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 240 hr		Iodine Atoms Per (Curie) Ci = Bi /Ai	Isotopic Iodine Fraction Di = Bi/ΣB
	Activity (Curie) A	Atoms B		
I-131	7.176E+01	2.661E+18	3.708E+16	9.992E-01
I-132	3.550E+00	1.569E+15	4.420E+14	5.892E-04
I-133	1.180E-01	4.717E+14	3.997E+15	1.771E-04
I-135	3.897E-09	4.951E+06	1.270E+15	1.859E-12
Total		2.663E+18		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 240 hr
 from RB Compartment Nuclide Inventory

Table 17I
480-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 480 hr		Iodine Atoms Per (Curie) $C_i = B_i / A_i$	Isotopic Iodine Fraction $D_i = B_i / \Sigma B$
	Activity (Curie) A	Atoms B		
I-131	2.785E+01	1.033E+18	3.708E+16	9.998E-01
I-132	3.887E-01	1.718E+14	4.420E+14	1.664E-04
I-133	3.646E-05	1.457E+11	3.997E+15	1.411E-07
Total		1.033E+18		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 480 hr
 from RB Compartment Nuclide Inventory

Table 17J
720-hrs Conversion of Iodine Activity into Iodine Atom

Isotope	RB Region @ 720 hr		Iodine Atoms Per (Curie) $C_i = B_i / A_i$	Isotopic Iodine Fraction $D_i = B_i / \Sigma B$
	Activity (Curie) A	Atoms B		
I-131	1.081E+01	4.007E+17	3.708E+16	1.000E+00
I-132	4.257E-02	1.881E+13	4.420E+14	4.695E-05
I-133	1.126E-08	4.502E+07	3.997E+15	1.124E-10
Total		4.007E+17		1.000E+00

A & B from RADTRAD Run NMP2CL200.o0 output file @ 720 hr
 from RB Compartment Nuclide Inventory

Table 18
720-hr Post-LOCA Iodine Activity Deposited on CREF Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On CR Charcoal 720 Hrs	Iodine Atoms on CR Charcoal Filter At 720 Hrs	Iodine Activity CR Charcoal Filter At 720 Hrs Ci
	A	B	C	Di =Bi * C	Ei = Di / Ai
I-131	3.708E+16	7.654E-01	1.4849E+16	1.137E+16	3.065E-01
I-132	4.420E+14	1.160E-02		1.722E+14	3.897E-01
I-133	3.997E+15	1.686E-01		2.503E+15	6.262E-01
I-134	1.685E+14	5.581E-03		8.287E+13	4.919E-01
I-135	1.270E+15	4.884E-02		7.253E+14	5.710E-01
Total Iodine Activity on CREF Charcoal Filter					2.385E+00

A & B from Table 17
 C From Table 16

Table 19
Post-LOCA SGTS Filter Iodine Atoms
Containment Leakage

Post-LOCA Period t (hr)	Reactor Building			
	Elemental Iodine Atoms	Organic Iodine Atoms	Total Iodine Atoms	Net Iodine Atoms
	A	B	C = A + B	D = C ₂ - C ₁
2	4.7237E+17	8.8441E+16	5.6081E+17	5.6081E+17
4	1.3790E+18	6.3573E+17	2.0147E+18	1.4539E+18
8	2.5651E+18	2.8054E+18	5.3705E+18	3.3558E+18
16	3.6344E+18	9.1917E+18	1.2826E+19	7.4556E+18
24	4.0195E+18	1.6367E+19	2.0387E+19	7.5604E+18
48	4.2884E+18	2.9753E+19	3.4041E+19	1.3655E+19
96	4.4561E+18	4.7166E+19	5.1622E+19	1.7581E+19
240	4.7839E+18	8.2249E+19	8.7033E+19	3.5411E+19
480	5.0452E+18	1.1022E+20	1.1527E+20	2.8232E+19
720	5.1466E+18	1.2107E+20	1.2622E+20	1.0951E+19

Time-Dependent Elemental & Organic Iodine Atoms & Aerosol
Mass from NMP2CL200.o0

Table 20
Post-LOCA SGTS Filter Iodine Atoms - ESF Leakage

Post-LOCA Period t (hr)	Reactor Building			
	Elemental Iodine Atoms	Organic Iodine Atoms	Total Iodine Atoms	Net Iodine Atoms
	A	B	C = A + B	D = D ₂ - D ₁
2	3.3786E+19	1.0449E+18	3.4831E+19	3.4831E+19
4	2.6124E+20	8.0796E+18	2.6932E+20	2.3449E+20
8	1.1869E+21	3.6709E+19	1.2236E+21	9.5429E+20
16	3.9107E+21	1.2095E+20	4.0317E+21	2.8080E+21
24	6.9288E+21	2.1429E+20	7.1431E+21	3.1114E+21
48	1.5253E+22	4.7174E+20	1.5725E+22	8.5817E+21
96	2.7786E+22	8.5937E+20	2.8645E+22	1.2921E+22
240	4.7178E+22	1.4591E+21	4.8637E+22	1.9992E+22
480	5.6175E+22	1.7374E+21	5.7912E+22	9.2753E+21
720	5.7843E+22	1.7890E+21	5.9632E+22	1.7196E+21

Time-dependent Elemental & Organic Iodine Atoms from
NMP2ES200.o0

Table 21
Post-LOCA SGTS Filter Iodine Atoms
Containment + ESF Leakages

Post- LOCA Period t (hr)	Reactor Building		
	Containment Leakage	ESF Leakage	Total Iodine Atoms
	Net	Net	
	Iodine Atoms	Iodine Atoms	
	A	B	C = A + B
2	5.6081E+17	3.4831E+19	3.5392E+19
4	1.4539E+18	2.3449E+20	2.3594E+20
8	3.3558E+18	9.5429E+20	9.5765E+20
16	7.4556E+18	2.8080E+21	2.8155E+21
24	7.5604E+18	3.1114E+21	3.1190E+21
48	1.3655E+19	8.5817E+21	8.5953E+21
96	1.7581E+19	1.2921E+22	1.2938E+22
240	3.5411E+19	1.9992E+22	2.0027E+22
480	2.8232E+19	9.2753E+21	9.3035E+21
720	1.0951E+19	1.7196E+21	1.7306E+21

A from Table 19

B from Table 20

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Table 22
2 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	2-hrs		Elemental & Organic Iodine Atoms On SGTS Charcoal At 2 hrs	Iodine Atoms on SGTS Charcoal Filter At 2 hrs Di = Bi * C	Iodine Activity on SGTS Charcoal Filter At 2 hrs Ci Ei = Di / Ai
	Iodine Atoms Per Curie	Fraction of Iodine			
	A	B			
I-131	3.708E+16	7.817E-01	3.5392E+19	2.767E+19	7.461E+02
I-132	4.420E+14	9.125E-03		3.229E+17	7.306E+02
I-133	3.997E+15	1.646E-01		5.825E+18	1.457E+03
I-134	1.685E+14	1.750E-03		6.193E+16	3.676E+02
I-135	1.270E+15	4.284E-02		1.516E+18	1.194E+03

A & B from Table 17A

C From Table 21

Table 22A
4 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 4 hrs	Iodine Atoms on SGTS Charcoal Filter At 4 hrs Di = Bi * C	Iodine Activity on SGTS Charcoal Filter At 4 hrs Ci Ei = Di / Ai
I-131	3.708E+16	7.995E-01	2.3594E+20	1.886E+20	5.087E+03
I-132	4.420E+14	5.827E-03		1.375E+18	3.111E+03
I-133	3.997E+15	1.586E-01		3.741E+19	9.361E+03
I-134	1.685E+14	3.707E-04		8.746E+16	5.192E+02
I-135	1.270E+15	3.577E-02		8.440E+18	6.645E+03

A & B from Table 17B

C from Table 21

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Table 22B
8 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 8 hrs	Iodine Atoms on SGTS Charcoal Filter At 8 hrs	Iodine Activity on SGTS Charcoal Filter At 8 hrs Ci
	A	B	C	Di = Bi * C	Ei = Di / Ai
I-131	3.708E+16	8.269E-01	9.5765E+20	7.919E+20	2.136E+04
I-132	4.420E+14	2.771E-03		2.653E+18	6.003E+03
I-133	3.997E+15	1.456E-01		1.394E+20	3.488E+04
I-134	1.685E+14	1.645E-05		1.576E+16	9.354E+01
I-135	1.270E+15	2.467E-02		2.363E+19	1.860E+04

A & B from Table 17C

C from Table 21

Table 22C
16 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 16 hrs	Iodine Atoms on SGTS Charcoal Filter At 16 hrs	Iodine Activity on SGTS Charcoal Filter At 16 hrs Ci
	A	B	C	Di = Bi * C	Ei = Di / Ai
I-131	3.708E+16	8.667E-01	2.8155E+21	2.440E+21	6.581E+04
I-132	4.420E+14	1.599E-03		4.503E+18	1.019E+04
I-133	3.997E+15	1.202E-01		3.385E+20	8.468E+04
I-134	1.685E+14	3.176E-08		8.942E+13	5.308E-01
I-135	1.270E+15	1.149E-02		3.236E+19	2.548E+04

A & B from Table 17D

C from Table 21

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Table 22D
24 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 24 hrs	Iodine Atoms on SGTS Charcoal Filter At 24 hrs	Iodine Activity on SGTS Charcoal Filter At 24 hrs Ci
	A	B	C	Di = Bi * C	Ei = Di / Ai
I-131	3.708E+16	8.953E-01	3.1190E+21	2.792E+21	7.531E+04
I-132	4.420E+14	1.589E-03		4.956E+18	1.121E+04
I-133	3.997E+15	9.786E-02		3.052E+20	7.636E+04
I-134	1.685E+14	6.042E-11		1.885E+11	1.119E-03
I-135	1.270E+15	5.278E-03		1.646E+19	1.296E+04

A & B from Table 17E

C from Table 21

Table 22E
48 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 48 hrs	Iodine Atoms on SGTS Charcoal Filter At 48 hrs	Iodine Activity on SGTS Charcoal Filter At 48 hrs Ci
	A	B	C	Di = Bi * C	Ei = Di / Ai
I-131	3.708E+16	9.473E-01	8.5953E+21	8.142E+21	2.196E+05
I-132	4.420E+14	1.533E-03		1.318E+19	2.981E+04
I-133	3.997E+15	5.068E-02		4.356E+20	1.090E+05
I-135	1.270E+15	4.910E-04		4.220E+18	3.323E+03

A & B from Table 17F

C from Table 21

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Table 22F
96 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 96 hrs	Iodine Atoms on SGTS Charcoal Filter At 96 hrs	Iodine Activity on SGTS Charcoal Filter At 96 hrs Ci Ei = Di / Ai
	A	B	C	Di =Bi * C	Ei = Di / Ai
I-131	3.708E+16	9.861E-01	1.2938E+22	1.276E+22	3.441E+05
I-132	4.420E+14	1.243E-03		1.608E+19	3.638E+04
I-133	3.997E+15	1.265E-02		1.637E+20	4.095E+04
I-135	1.270E+15	3.955E-06		5.117E+16	4.028E+01

A & B from Table 17G

C from Table 21

Table 22G
240 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 240 hrs	Iodine Atoms on SGTS Charcoal Filter At 240 hrs	Iodine Activity on SGTS Charcoal Filter At 240 hrs Ci Ei = Di / Ai
	A	B	C	Di =Bi * C	Ei = Di / Ai
I-131	3.708E+16	9.992E-01	2.0027E+22	2.001E+22	5.397E+05
I-132	4.420E+14	5.892E-04		1.180E+19	2.670E+04
I-133	3.997E+15	1.771E-04		3.547E+18	8.875E+02
I-135	1.270E+15	1.859E-12		3.723E+10	2.931E-05

A & B from Table 17H

C from Table 21

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Table 22H
480 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 480 hrs	Iodine Atoms on SGTS Charcoal Filter At 480 hrs	Iodine Activity on SGTS Charcoal Filter At 480 hrs Ci
	A	B	C	Di = Bi * C	Ei = Di / Ai
I-131	3.708E+16	9.998E-01	9.3035E+21	9.302E+21	2.509E+05
I-132	4.420E+14	1.664E-04		1.548E+18	3.502E+03
I-133	3.997E+15	1.411E-07		1.313E+15	3.284E-01

A & B from Table 17I

C from Table 21

Table 22I
720 hrs Post-LOCA Iodine Isotopic Activity on SGTS Charcoal Filter

Isotope	Iodine Atoms Per Curie	Fraction Of Iodine	Elemental & Organic Iodine Atoms On SGTS Charcoal At 720 hrs	Iodine Atoms on SGTS Charcoal Filter At 720 hrs	Iodine Activity on SGTS Charcoal Filter At 720 hrs Ci
	A	B	C	Di = Bi * C	Ei = Di / Ai
I-131	3.708E+16	1.000E+00	1.7306E+21	1.730E+21	4.667E+04
I-132	4.420E+14	4.695E-05		8.126E+16	1.838E+02
I-133	3.997E+15	1.124E-10		1.944E+11	4.864E-05

A & B from Table 17J

C from Table 21

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Table 23
Post-LOCA Iodine Loading on SGTS Charcoal Filter
 (Ci)

Isotope	2 hrs	4 hrs	8 hrs	16 hrs	24 hrs	48 hrs	96 hrs	240 hrs	480 hrs	720 hrs
I-131	7.461E+02	5.087E+03	2.136E+04	6.581E+04	7.531E+04	2.196E+05	3.441E+05	5.397E+05	2.509E+05	4.667E+04
I-132	7.306E+02	3.111E+03	6.003E+03	1.019E+04	1.121E+04	2.981E+04	3.638E+04	2.670E+04	3.502E+03	1.838E+02
I-133	1.457E+03	9.361E+03	3.488E+04	8.468E+04	7.636E+04	1.090E+05	4.095E+04	8.875E+02	3.284E-01	4.864E-05
I-134	3.676E+02	5.192E+02	9.354E+01	5.308E-01	1.119E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-135	1.194E+03	6.645E+03	1.860E+04	2.548E+04	1.296E+04	3.323E+03	4.028E+01	2.931E-05	0.000E+00	0.000E+00

Iodine Isotopic Activity Information from Tables 22 through 22I

Table 24 (UFSAR Table 15.6-14)
Post-LOCA Primary Containment Activity
At End of Release from Vessel

Isotope	Activity (Curie) A	Isotope	Activity (Curie) A
Kr-83m	7.8116E+06	I-131	9.7334E+05
Kr-85m	2.7201E+07	I-132	1.3689E+06
Kr-85	1.8737E+06	I-133	1.8998E+06
Kr-87	2.5139E+07	I-134	4.7919E+05
Kr-88	6.2362E+07	I-135	1.5560E+06
Rb-86	1.7091E+03	Xe-133	2.2820E+08
Rb-88	1.6975E+07	Xe-133m	6.9496E+06
Sr-89	9.4100E+04	Xe-135	1.0028E+08
Sr-90	1.0078E+04	Xe-135m	6.6923E+06
Sr-91	1.0035E+05	Xe-138	5.8777E+05
Sr-92	7.2083E+04	Cs-134	1.7142E+05
Y-90	1.1680E+02	Cs-136	5.2077E+04
Y-91	1.1820E+03	Cs-137	1.3310E+05
Y-92	2.7670E+03	Ba-139	5.2087E+04
Y-93	1.1483E+03	Ba-140	1.3795E+05
Zr-95	1.3927E+03	La-140	1.6715E+03
Zr-97	1.2388E+03	La-141	9.1417E+02
Nb-95	1.3748E+03	La-142	5.1927E+02
Mo-99	1.7230E+04	Ce-141	3.2715E+03
Tc-99m	1.5478E+04	Ce-143	3.0592E+03
Ru-103	1.5211E+04	Ce-144	2.6217E+03
Ru-105	7.9414E+03	Pr-143	1.2493E+03
Ru-106	6.3320E+03	Nd-147	5.0671E+02
Rh-105	1.0069E+04	Np-239	3.6409E+04
Sb-127	1.7266E+04	Pu-238	8.1475E+00
Sb-129	3.9290E+04	Pu-239	8.2182E-01
Te-127	1.7305E+04	Pu-240	1.4515E+00
Te-127m	2.9646E+03	Pu-241	3.2247E+02
Te-129	4.4428E+04	Am-241	1.8244E-01
Te-129m	9.7228E+03	Cm-242	5.0099E+01
Te-131m	3.5171E+04	Cm-244	3.3137E+00
Te-132	2.5963E+05	Total	4.9173E+08

A From RADTRAD Output File NMP2CL200.o0 @ 2.0
hr from Drywell Compartment Nuclide Inventory

Table 25
Post-LOCA 720-hr Containment, ESF, MSIV & Bypass Leakage Activity Release to Environment

Isotope	720-hr Post-LOCA Activity Released to Environment				720-hr Post-LOCA Activity Released to Environment			
	Containment Leakage A	ESF Leakage B	Bypass Leakage C	Total A+B+C	Isotope	Containment Leakage A	ESF Leakage B	Bypass Leakage C
Kr-83m	3.8815E+03		1.4725E+03	5.3540E+03	I-131	1.6968E+02	1.5663E+04	1.2643E+03
Kr-85m	4.5718E+04		1.4334E+04	6.0052E+04	I-132	1.2586E+02	2.3100E+02	1.4016E+02
Kr-85	3.0828E+05		1.1582E+05	4.2410E+05	I-133	2.2798E+02	5.0209E+03	3.9062E+02
Kr-87	7.4979E+03		3.4448E+03	1.0943E+04	I-134	1.3910E+02	9.4304E+01	4.4081E+01
Kr-88	5.5968E+04		1.8708E+04	7.4676E+04	I-135	1.8585E+02	1.1117E+03	1.4052E+02
Rb-86	3.3782E-01		2.3640E-01	5.7422E-01	Xe-133	1.0658E+07	3.6488E+06	3.8139E+06
Rb-88	3.0534E+04		1.1394E+04	4.1928E+04	Xe-133m	1.5322E+05	1.3012E+05	5.1668E+04
Sr-89	8.2704E+00		1.4480E+01	2.2750E+01	Xe-135	4.0665E+05	1.1397E+06	1.2348E+05
Sr-90	1.0401E+00		1.8194E+00	2.8595E+00	Xe-135m	5.4830E+02	1.7512E+04	5.5899E+02
Sr-91	1.2590E+00		2.7043E+00	3.9633E+00	Xe-138	1.3105E+02		2.4322E+02
Sr-92	6.9657E-01		1.8327E+00	2.5293E+00	Cs-134	3.9514E+01		3.3530E+01
Y-90	7.8574E-01		1.3595E+00	2.1452E+00	Cs-136	9.8333E+00		6.4001E+00
Y-91	1.2851E-01		2.2343E-01	3.5194E-01	Cs-137	3.0823E+01		2.6284E+01
Y-92	2.2563E-01		2.1766E-01	4.4329E-01	Ba-139	5.4552E-01		1.5184E+00
Y-93	1.4682E-02		3.1244E-02	4.5926E-02	Ba-140	8.2179E+00		1.4437E+01
Zr-95	1.2647E-01		2.2137E-01	3.4784E-01	La-140	6.2273E+00		1.0638E+01
Zr-97	1.8753E-02		3.7262E-02	5.6015E-02	La-141	9.2007E-03		2.2879E-02
Nb-95	1.3915E-01		2.4343E-01	3.8258E-01	La-142	5.2694E-03		1.4619E-02
Mo-99	4.5633E-01		8.2261E-01	1.2789E+00	Ce-141	2.6507E-01		4.6431E-01
Tc-99m	4.4069E-01		7.8499E-01	1.2257E+00	Ce-143	5.9341E-02		1.1087E-01
Ru-103	1.2804E+00		2.2423E+00	3.5227E+00	Ce-144	2.6282E-01		4.5980E-01
Ru-105	8.1714E-02		1.9911E-01	2.8082E-01	Pr-143	9.0936E-02		1.5893E-01
Ru-106	6.3908E-01		1.1180E+00	1.7571E+00	Nd-147	2.8207E-02		4.9597E-02
Rh-105	2.1191E-01		3.8730E-01	5.9921E-01	Np-239	8.9394E-01		1.6213E+00
Sb-127	5.4553E-01		9.7344E-01	1.5190E+00	Pu-238	8.4265E-04		1.4740E-03
Sb-129	4.0215E-01		9.8442E-01	1.3866E+00	Pu-239	8.5653E-05		1.4981E-04
Te-127	7.8511E-01		1.3828E+00	2.1679E+00	Pu-240	1.4993E-04		2.6226E-04
Te-127m	2.9086E-01		5.0885E-01	7.9971E-01	Pu-241	3.3255E-02		5.8171E-02
Te-129	1.0515E+00		2.0831E+00	3.1346E+00	Am-241	2.0645E-05		3.6098E-05
Te-129m	7.9599E-01		1.3940E+00	2.1900E+00	Cm-242	4.9136E-03		8.5972E-03
Te-131m	6.5688E-01		1.2359E+00	1.8928E+00	Cm-244	3.4182E-04		5.9792E-04
Te-132	7.5016E+00		1.3447E+01	2.0949E+01				

A from RADTRAD Output File NMP2CL200.o0 @ 720 hr from Environment

B from RADTRAD Output File NMP2ES200.o0 @ 720 hr from Environment

C from RADTRAD Output File NMP2MS00.o0 @ 720 hr from Environment

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Table 26 (UFSAR Table 15.6-15b)
Loss-of-Coolant-Accident (Design Basis Analyses)
Total Activity Released to Environment

Isotope	Activity (Curie)	Isotope	Activity (Curie)
Kr-83m	5.354E+03	I-131	1.710E+04
Kr-85m	6.005E+04	I-132	4.970E+02
Kr-85	4.241E+05	I-133	5.640E+03
Kr-87	1.094E+04	I-134	2.775E+02
Kr-88	7.468E+04	I-135	1.438E+03
Rb-86	5.742E-01	Xe-133	1.812E+07
Rb-88	4.193E+04	Xe-133m	3.350E+05
Sr-89	2.275E+01	Xe-135	1.670E+06
Sr-90	2.860E+00	Xe-135m	1.862E+04
Sr-91	3.963E+00	Xe-138	3.743E+02
Sr-92	2.529E+00	Cs-134	7.304E+01
Y-90	2.145E+00	Cs-136	1.623E+01
Y-91	3.519E-01	Cs-137	5.711E+01
Y-92	4.433E-01	Ba-139	2.064E+00
Y-93	4.593E-02	Ba-140	2.265E+01
Zr-95	3.478E-01	La-140	1.687E+01
Zr-97	5.602E-02	La-141	3.208E-02
Nb-95	3.826E-01	La-142	1.989E-02
Mo-99	1.279E+00	Ce-141	7.294E-01
Tc-99m	1.226E+00	Ce-143	1.702E-01
Ru-103	3.523E+00	Ce-144	7.226E-01
Ru-105	2.808E-01	Pr-143	2.499E-01
Ru-106	1.757E+00	Nd-147	7.780E-02
Rh-105	5.992E-01	Np-239	2.515E+00
Sb-127	1.519E+00	Pu-238	2.317E-03
Sb-129	1.387E+00	Pu-239	2.355E-04
Te-127	2.168E+00	Pu-240	4.122E-04
Te-127m	7.997E-01	Pu-241	9.143E-02
Te-129	3.135E+00	Am-241	5.674E-05
Te-129m	2.190E+00	Cm-242	1.351E-02
Te-131m	1.893E+00	Cm-244	9.397E-04
Te-132	2.095E+01		

Combined Activity Information from Table 25

11.0 FIGURES

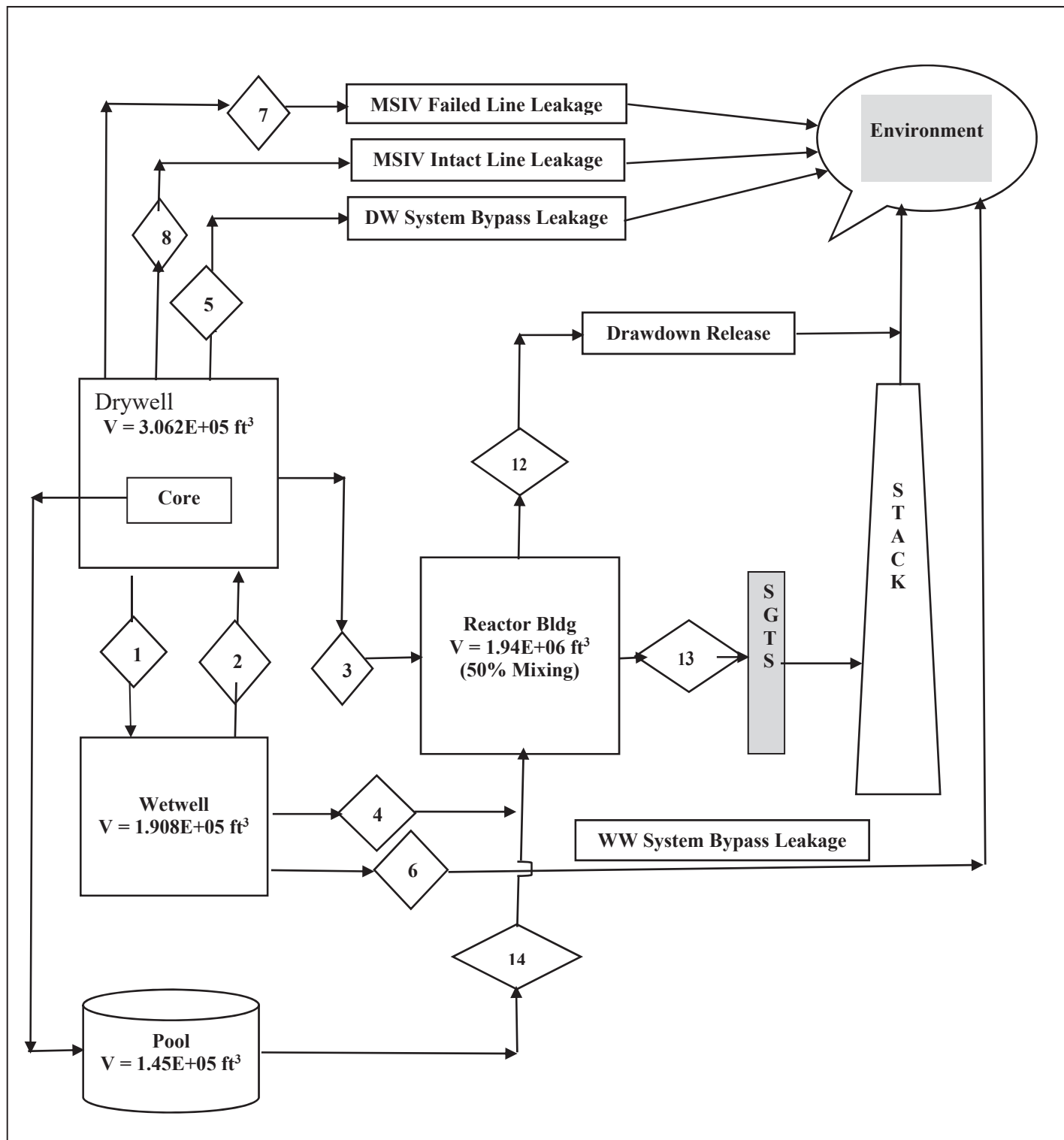


Figure 1: NMP2 Post-LOCA Releases - RADTRAD Nodalization

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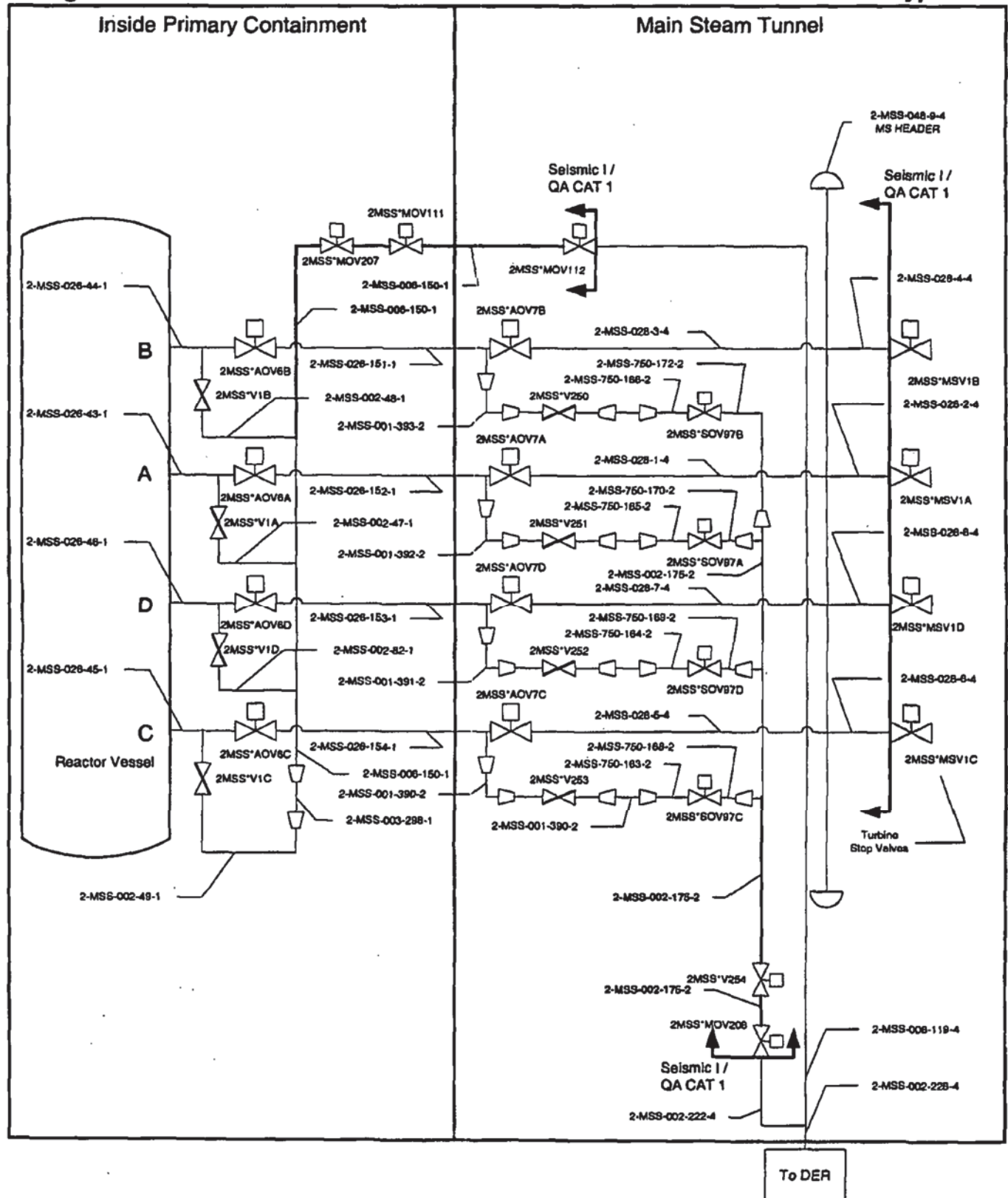


Figure 2: Schematic of Main Steam Lines and Main Steam Drain Lines
(Reference 9.10, Figure 5-1)

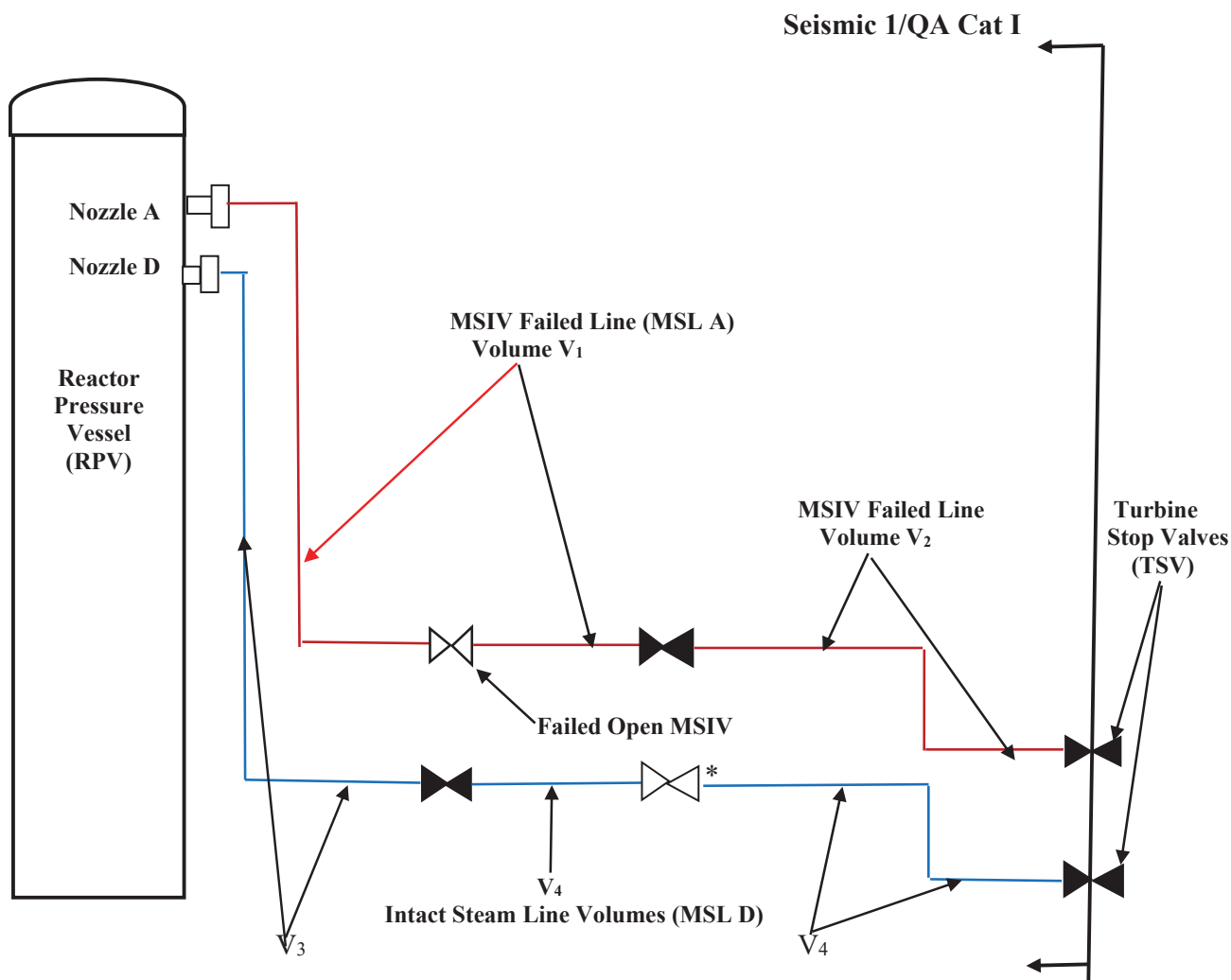


Figure 3: Schematic of MSIV Failed & Intact Steam Line Volume Descriptions

V_1 = RPV Nozzle A to Outboard MSIV

V_2 = Outboard MSIV to TSV

V_3 = RPV Nozzle D to Inboard MSIV

V_4 = Volume between Inboard MSIV to TSV

***Note: Valve is assumed open for modelling purposes. It is not failed open.**

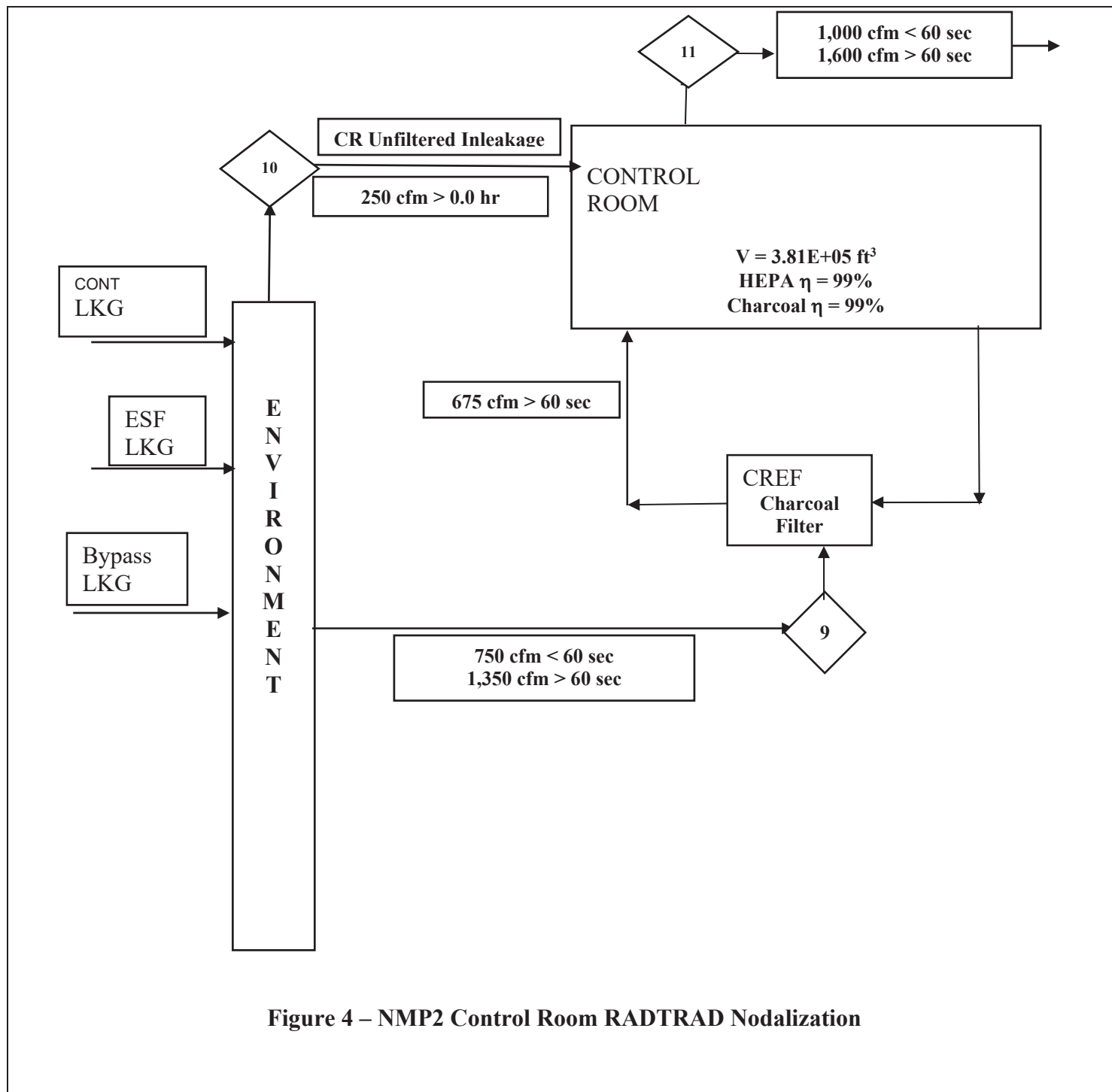
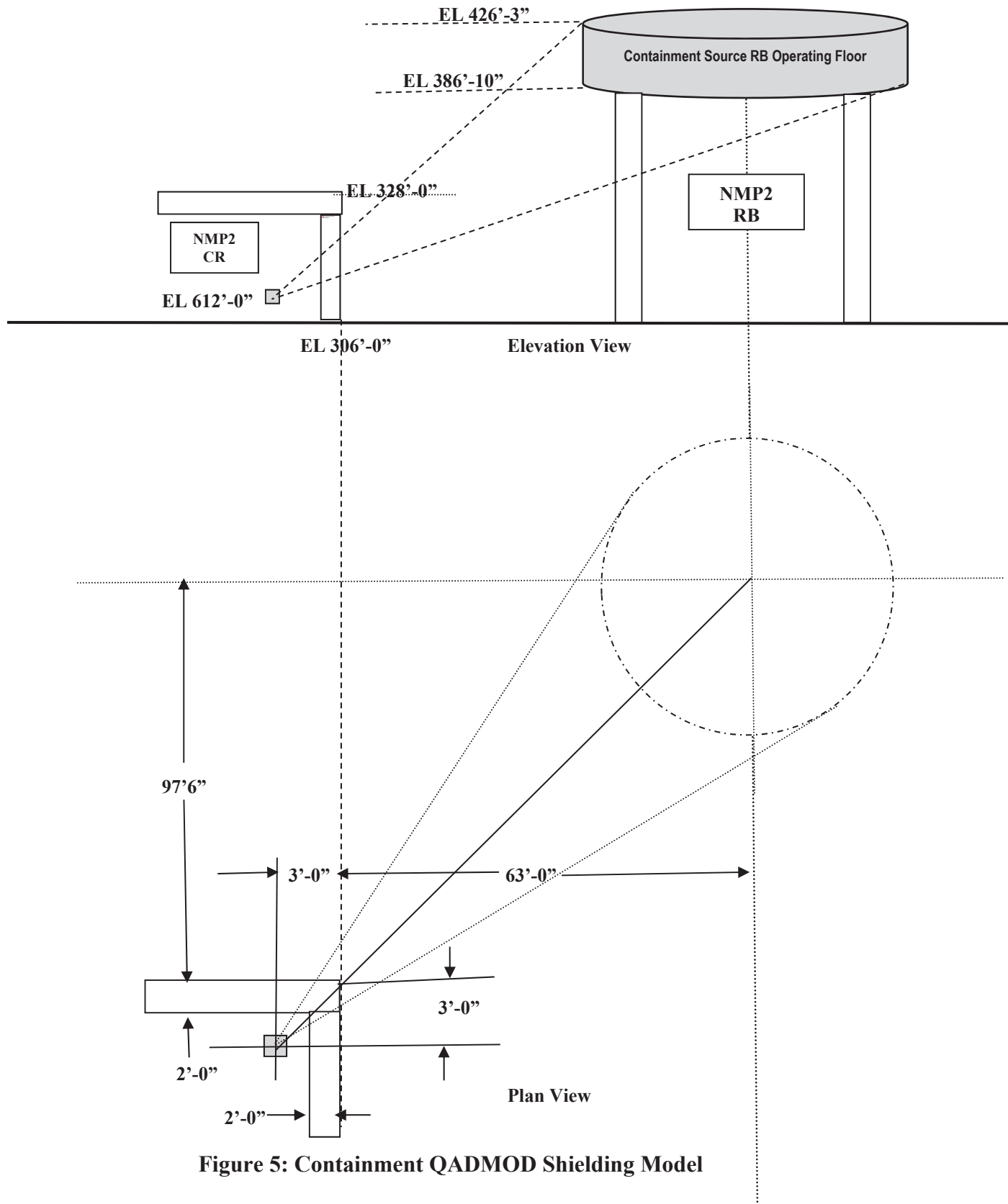
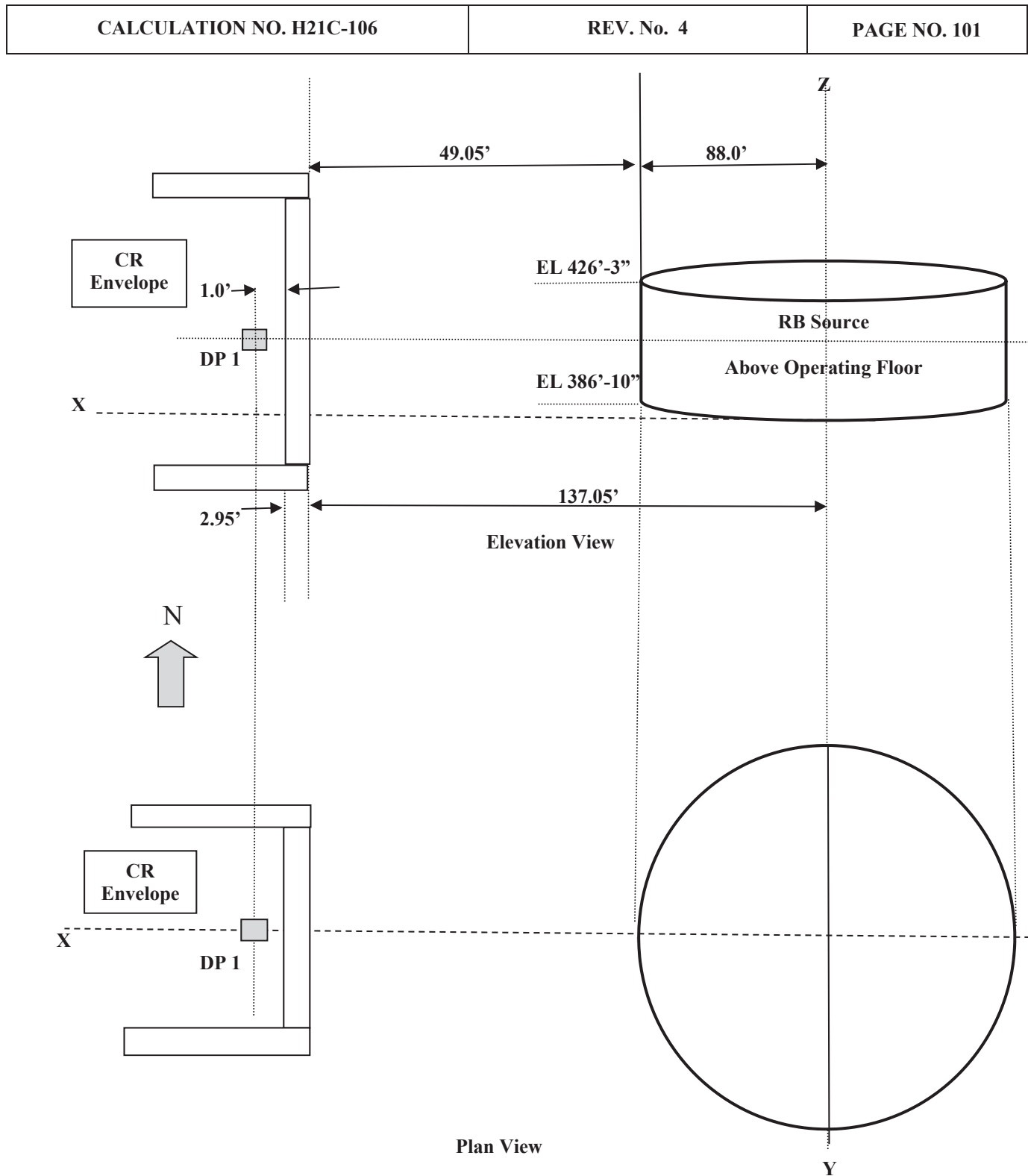


Figure 4 – NMP2 Control Room RADTRAD Nodalization

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**Figure 6: MicroShield Shielding Model**

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12.0 AFFECTED DOCUMENTS

Upon approval of this calculation, the following documents should be reviewed & revised as appropriate:

UFSAR Information to be Reviewed & Revised as Appropriate (Ref. 9.18):

UFSAR Section 15.6.5.5.1, Revision 22, “Design Basis Analyses”

UFSAR Section 15.6.5.5.2, Revision 22, “Fission Product Release from Fuel”

UFSAR Section 15.6.5.5.3, Revision 22, “Fission Product Transport to the Environment”

UFSAR Table 15.6-13, Revision 22, “Loss-of-Coolant-Accident – Parameters Tabulated for Postulated Accident Analyses”

UFSAR Table 15.6-14, Revision 22, “Loss-of-Coolant Accident (Design Basis Analysis) Activity Available for Release From Primary Containment (And Deposited) At End of Release From Vessel”

UFSAR Table 15.6-15b, Revision 22, “Loss-of-Coolant Accident (Design Basis Analysis) Activity Release To Environment”

UFSAR Table 15.6.16b, Revision 22, “Loss-of-Coolant Accident (Design Basis Analysis) Radiological Effects”

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13.0 ATTACHMENTS

Attachment 13.1 - Spray Removal Spreadsheet from H21C-106, Revision 0
Attachment 13.2 - RADTRAD Output File "NMP2CL200.o0"
Attachment 13.3 - RADTRAD Output File "NMP2ES200.o0"
Attachment 13.4 - RADTRAD Output File "NMP2MS00.o0"
Attachment 13.5 - RADTRAD Output File "NMP2MS01.o0"
Attachment 13.6 - RADTRAD Output File "NMP2MS02.o0"
Attachment 13.7 - RADTRAD Output File "NMP2MS03.o0"
Attachment 13.8 - RADTRAD Output File "NMP2CL11.o0"
Attachment 13.9 - RADTRAD Output File "NMP2CL22.o0"
Attachment 13.10 - RADTRAD Output File "NMP2ES22.o0"
Attachment 13.11 - RADTRAD Output File "NMP2MS22.o0"
Attachment 13.12 - RADTRAD Output File "NMP2CL00.o0"
Attachment 13.13 - RADTRAD Output File "NMP2ES00.o0"
Attachment 13.14 - RADTRAD Nuclide Inventory File "nmp2.nif"
Attachment 13.15 - RADTRAD Release Fraction and Timing File "bwr_dba.rft"
Attachment 13.16 - RADTRAD Dose Conversion Factor File "nmp2.inp"
Attachment 13.17 - MicroShield Output Files "[NMP2CS02, 08, 24, 96, & 720].MSD"
Attachment 13.18 - RADTRAD Error Notices
Attachment 13.19 - Evaluation of RAI-4
Attachment 13.20 - Evaluation of RAI-5
Attachment 13.21 - Evaluation of RAI-6
Attachment 13.22 - RADTRAD Output File "NMP2MS11.o0"
Attachment 13.23 - RADTRAD Output File "NMP2MS12.o0"
Attachment 13.24 - RADTRAD Output File "NMP2MS201.o0"
Attachment 13.25 - RADTRAD Output File "NMP2MSAOR.o0"

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Attachment 13.1 – Spray Removal Spreadsheet from H21C-106, Revision 0

The purpose of this Attachment is to retain the calculations necessary to reduce the drywell spray system information to determine the average spray flowrate. The original analysis from H21C-106 Rev. 0 is retained for this purpose. Note, the computation of the spray removal rate constants are in the main body of this analysis.

The inputs to this calculation are derived from PSAT3101CF.QA.03 (Ref. 9.4) items 3.20, 7.7, 7.8, 8.1 and Attachment 7. The reproduced spreadsheet from H21C-106 Rev. 0 is on the following page.

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Originator/Date
J. Metcalf 5/31/07Reviewer/Date
M. Berg 5/31/07Calculation No.
H21C-106Revision
00

Ref.

131 being airborne at that time (slightly conservative).

Sprays are continued until six hours. By this time, the Ci of I-131 aerosol airborne is estimated to decrease to 4.96E3 Ci. The actual Ci of I-131 aerosol airborne at that time is 4.08E3 Ci. The difference is that the estimating process does not consider decay or containment leakage; it is small in any case.

Spray Removal Spreadsheet

Flow per nozzle = 104.125 gpm

Column A	Column B	Column C	Column D	Column E	Column F
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Inner, Loop A			Nozzles	Flow fraction	Number	Product
Elevation	301.5	feet	54	1	27	27
Height	61.5	feet		0.9	10	9
Elevation	301.23	feet	2	0.8	8	6.4
Height	61.23	feet		0.7	7	4.9
Elevation	299.25	feet	2	0.6	5	3
Height	59.25	feet		0.5	4	2
Elevation	298.5	feet	2	0.4	1	0.4
Height	58.5	feet		0.3	1	0.3
Elevation	297	feet	4	0	5	0
Height	57	feet				
Average height =			61.04625	Sums:		68
Height x # of nozzles =			3235.451	Note: only 4 nozzles not installed		53
				- remaining "zero" is due to one		
				100% blockage case.		
				Spray flow =		5518.63 gpm
				Nominal =		6664.00 gpm
				Percent =		83%
Outer, Loop B			Nozzles	Flow fraction	Number	Product
Elevation	303	feet	59	1	32	32
Height	63	feet		0.9	4	3.6
Height x # of nozzles =			3168.9	0.8	10	8
				0.7	3	2.1
				0.6	2	1.2
				0.5	6	3
				0.2	2	0.4
				0	9	0
				Sums:		68
				Note: 9 nozzles not installed		50.3
				Spray flow =		5237.49 gpm
				Nominal =		6143.38 gpm
				Percent =		85%
				DW volume =		3.06E+05 ft3
				Spray flow fraction =		1
				Fall height fraction =		0.5
				Lambda =		1.98E+01 per hour

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Attachment 13.2 - RADTRAD Output File "NMP2CL200.o0"

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:00
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2CL200.psf
Inventory file   = c:\radtrad3.03\nmp2\nmp2.nif
Release file     = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Containment Leakage from Drywell & Wetwell (DW+WW) Using CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
6
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
0
Compartment 4:
RB
3
1.9400E+06
0
0
0
0
0
0
Compartment 5:
Environment
2
0.0000E+00
0
```

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```

0
0
0
0
Compartment 6:
CR
1
3.8100E+05
0
0
1
0
0
Pathways:
13
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW to RB
1
4
2
Pathway 4:
WW to RB
2
4
2
Pathway 5:
CR Filtered Intake
5
6
2
Pathway 6:
CR Unfiltered Inleakage
5
6
2
Pathway 7:
CR Exhaust to Environment
6
5
2
Pathway 8:
Drawdown Release from RB to Environment
4
5
2
Pathway 9:
RB Exhaust to Environment
4
5
2
Pathway 10:
DW to Dummy (Bypass Pathway 5)
1
3
2
Pathway 11:
WW to Dummy (Bypass Pathway 6)
2
3
2
Pathway 12:
DW to Dummy (MSIV Failed Pathway 7)
1
3
2
Pathway 13:
DW to Dummy (Intact MSIV Pathway 8)
1

```

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```

3
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
6
Compartment 1:
1
1
1
0.0000E+00
6
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
6.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
6
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00
6.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
0
0
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
0
0
Compartment 4:
1
1
0
0
0
0

```

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0
0
0
0

Compartment 5:

1
1
0
0
0
0
0
0
0
0

Compartment 6:

1
1
0
0
0
0
1

6.7500E+02

3

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00

0
0

Pathways:

13

Pathway 1:

0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

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0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0
1
4
0.0000E+00 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 7.3000E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
0
1
3
0.0000E+00 7.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6700E-02 1.3500E+03 9.9000E+01 9.9000E+01 9.9000E+01
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
0
1
8
0.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
4.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
4.8000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+02 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
4.8000E+02 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0

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```

0
Pathway 8:
0
0
0
0
0
0
1
2
0.0000E+00  2.6700E+03  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  4.4000E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
0
1
3
0.0000E+00  2.4930E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.2470E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
0
1
3
0.0000E+00  1.1200E-02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  5.6000E-03  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00

```


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```

7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 13:
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
5
1
3
0.0000E+00  1.1900E-04
1.0000E+00  2.9600E-05
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  3.5000E-04
0
Location 2:
LPZ
5
1
6
0.0000E+00  1.6200E-05
1.0000E+00  1.4200E-05
8.0000E+00  5.4100E-07
2.4000E+01  2.3100E-07
9.6000E+01  7.6500E-08
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  2.3000E-04
0
Location 3:
CR
6
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  3.5000E-04
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
7
0.0000E+00  1.4700E-03
1.0000E+00  8.0300E-05
2.0000E+00  4.4800E-05
8.0000E+00  1.6800E-05

```

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2.4000E+01 1.2000E-05
9.6000E+01 8.8300E-06
7.2000E+02 0.0000E+00

Simulation Parameters:

7

0.0000E+00 1.0000E-02
1.0000E+00 1.0000E-01
2.0000E+00 5.0000E-01
8.0000E+00 1.0000E+00
2.4000E+01 2.0000E+00
9.6000E+01 5.0000E+00
7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o571

1

1

1

0

0

End of Scenario File

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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:00
#####
```

```
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
Plant Power Level = 4.0670E+03 MWth

Number of compartments = 6

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW to RB

Exit Pathway Number 10: DW to Dummy (Bypass Pathway 5)

Exit Pathway Number 12: DW to Dummy (MSIV Failed Pathway 7)

Exit Pathway Number 13: DW to Dummy (Intact MSIV Pathway 8)

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW to RB

Exit Pathway Number 11: WW to Dummy (Bypass Pathway 6)

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 10: DW to Dummy (Bypass Pathway 5)

Inlet Pathway Number 11: WW to Dummy (Bypass Pathway 6)

Inlet Pathway Number 12: DW to Dummy (MSIV Failed Pathway 7)

Inlet Pathway Number 13: DW to Dummy (Intact MSIV Pathway 8)

Compartment number 4

Name: RB

Compartment volume = 1.9400E+06 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 4

Inlet Pathway Number 3: DW to RB

Inlet Pathway Number 4: WW to RB

Exit Pathway Number 8: Drawdown Release from RB to Environment

Exit Pathway Number 9: RB Exhaust to Environment

Compartment number 5

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 5

Inlet Pathway Number 7: CR Exhaust to Environment

Inlet Pathway Number 8: Drawdown Release from RB to Environment

Inlet Pathway Number 9: RB Exhaust to Environment

Exit Pathway Number 5: CR Filtered Intake

Exit Pathway Number 6: CR Unfiltered Inleakage

Compartment number 6

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

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---------------------------------	-------------------	---------------------

Pathways into and out of compartment 6

Inlet Pathway Number 5: CR Filtered Intake

Inlet Pathway Number 6: CR Unfiltered Inleakage

Exit Pathway Number 7: CR Exhaust to Environment

Total number of pathways = 13

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:00
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
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0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: RB

Compartment number 5: Environment

Compartment number 6: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: CR Unfiltered Inleakage

Pathway Filter: Removal Data

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Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.8000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+02	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.8000E+02	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: Drawdown Release from RB to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	4.4000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Dummy (Bypass Pathway 5)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.2470E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: WW to Dummy (Bypass Pathway 6)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.6000E-03	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: DW to Dummy (MSIV Failed Pathway 7)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: DW to Dummy (Intact MSIV Pathway 8)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00

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2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location LPZ is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
1.0000E+00	1.4200E-05
8.0000E+00	5.4100E-07
2.4000E+01	2.3100E-07
9.6000E+01	7.6500E-08
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	2.3000E-04

Location CR is in compartment 6

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:00
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	
Accumulated dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.7588E-07	1.2479E-04	6.1570E-06	
Accumulated dose (rem)	8.7588E-07	1.2479E-04	6.1570E-06	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	
Accumulated dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	

DW Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m	2.7332E+04	1.3464E-06	9.7692E+18	4.4085E+16	
Kr-85m	6.1772E+04	7.5061E-06	5.3180E+19	9.9487E+16	
Kr-85	3.1305E+03	7.9867E-03	5.6585E+22	5.0366E+15	
Kr-87	1.2382E+05	4.3712E-06	3.0258E+19	1.9995E+17	
Kr-88	1.6908E+05	1.3484E-05	9.2275E+19	2.7248E+17	
Rb-86	4.2509E+02	5.2243E-06	3.6583E+19	6.8391E+14	
Rb-88	1.7112E+05	1.4175E-06	9.7006E+18	2.7286E+17	
I-131	1.8470E+05	1.4898E-03	6.8487E+21	2.9716E+17	
I-132	2.6793E+05	2.5957E-05	1.1842E+20	4.3174E+17	
I-133	3.8278E+05	3.3791E-04	1.5300E+21	6.1599E+17	
I-134	4.3360E+05	1.6254E-05	7.3047E+19	7.0138E+17	
I-135	3.6131E+05	1.0288E-04	4.5895E+20	5.8172E+17	
Xe-133	3.8300E+05	2.0461E-03	9.2647E+21	6.1617E+17	
Xe-133m	1.1748E+04	2.6684E-05	1.2082E+20	1.8900E+16	
Xe-135	1.6123E+05	6.3134E-05	2.8163E+20	2.5902E+17	
Xe-135m	7.8357E+04	8.6076E-07	3.8397E+18	1.2587E+17	
Xe-138	3.2721E+05	3.4101E-06	1.4881E+19	5.3714E+17	
Cs-134	4.2510E+04	3.2856E-02	1.4766E+23	6.8392E+16	
Cs-136	1.2970E+04	1.7696E-04	7.8360E+20	2.0867E+16	
Cs-137	3.3003E+04	3.7942E-01	1.6678E+24	5.3097E+16	

DW Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	6.6456E+22	0.0000E+00	
Elemental I (atoms)	4.3791E+20	0.0000E+00	
Organic I (atoms)	1.3544E+19	0.0000E+00	
Aerosols (kg)	4.1434E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)		3.0090E-05	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.8536E-05	
Total I (Ci)		1.6303E+06	

DW to WW Transport Group Inventory:

Time (h) =	0.0167	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 0.0167 Leakage Transport

Noble gases (atoms) 0.0000E+00
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

DW to RB Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1179E+19
Elemental I (atoms)	0.0000E+00	7.3678E+16
Organic I (atoms)	0.0000E+00	2.2787E+15
Aerosols (kg)	0.0000E+00	6.9695E-05

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7109E+16
Elemental I (atoms)	0.0000E+00	1.7868E+14
Organic I (atoms)	0.0000E+00	5.5261E+12
Aerosols (kg)	0.0000E+00	1.6902E-07

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3509E+16
Elemental I (atoms)	0.0000E+00	4.8450E+14
Organic I (atoms)	0.0000E+00	1.4984E+13
Aerosols (kg)	0.0000E+00	4.5831E-07

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3509E+16
Elemental I (atoms)	0.0000E+00	4.8450E+14
Organic I (atoms)	0.0000E+00	1.4984E+13
Aerosols (kg)	0.0000E+00	4.5831E-07

RB Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m		4.5954E+00	2.2638E-10	1.6425E+15	6.0676E+12
Kr-85m		1.0386E+01	1.2620E-09	8.9412E+15	1.3696E+13
Kr-85		5.2634E-01	1.3428E-06	9.5137E+18	6.9345E+11
Kr-87		2.0818E+01	7.3494E-10	5.0873E+15	2.7515E+13
Kr-88		2.8427E+01	2.2671E-09	1.5514E+16	3.7506E+13
Rb-86		7.1471E-02	8.7837E-10	6.1508E+15	9.4163E+10
Rb-88		2.8770E+01	2.3833E-10	1.6310E+15	3.7579E+13
I-131		3.1054E+01	2.5048E-07	1.1515E+18	4.0913E+13
I-132		4.5018E+01	4.3613E-09	1.9897E+16	5.9407E+13
I-133		6.4358E+01	5.6813E-08	2.5724E+17	8.4808E+13
I-134		7.2902E+01	2.7328E-09	1.2281E+16	9.6494E+13
I-135		6.0748E+01	1.7298E-08	7.7164E+16	8.0084E+13
Xe-133		6.4394E+01	3.4402E-07	1.5577E+18	8.4837E+13
Xe-133m		1.9752E+00	4.4865E-09	2.0314E+16	2.6022E+12
Xe-135		2.7107E+01	1.0615E-08	4.7351E+16	3.5667E+13
Xe-135m		1.3174E+01	1.4472E-10	6.4558E+14	1.7320E+13
Xe-138		5.5014E+01	5.7335E-10	2.5020E+15	7.3742E+13
Cs-134		7.1473E+00	5.5241E-06	2.4826E+19	9.4165E+12
Cs-136		2.1806E+00	2.9753E-08	1.3175E+17	2.8730E+12
Cs-137		5.5489E+00	6.3793E-05	2.8042E+20	7.3105E+12

RB Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		1.1173E+19	0.0000E+00
Elemental I (atoms)		7.3626E+16	0.0000E+00
Organic I (atoms)		2.2771E+15	0.0000E+00
Aerosols (kg)		6.9663E-05	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		7.9850E-10

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 1.0226E-09
 Total I (Ci) 2.7408E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1179E+19
Elemental I (atoms)	0.0000E+00	7.3678E+16
Organic I (atoms)	0.0000E+00	2.2787E+15
Aerosols (kg)	0.0000E+00	6.9695E-05

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1369E+15
Elemental I (atoms)	0.0000E+00	3.3856E+13
Organic I (atoms)	0.0000E+00	1.0471E+12
Aerosols (kg)	0.0000E+00	3.2027E-08

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 0.0167	Ci	kg	Atoms	Bq
Kr-83m	2.1138E-03	1.0413E-13	7.5555E+11	7.8212E+07
Kr-85m	4.7759E-03	5.8034E-13	4.1116E+12	1.7671E+08
Kr-85	2.4198E-04	6.1735E-10	4.3739E+15	8.9534E+06
Kr-87	9.5784E-03	3.3815E-13	2.3407E+12	3.5440E+08
Kr-88	1.3074E-02	1.0426E-12	7.1352E+12	4.8374E+08
Rb-86	3.2859E-05	4.0383E-13	2.8278E+12	1.2158E+06
Rb-88	1.3227E-02	1.0957E-13	7.4984E+11	4.8941E+08
I-131	1.4277E-02	1.1516E-10	5.2939E+14	5.2824E+08
I-132	2.0700E-02	2.0054E-12	9.1492E+12	7.6591E+08
I-133	2.9590E-02	2.6121E-11	1.1827E+14	1.0948E+09
I-134	3.3555E-02	1.2578E-12	5.6528E+12	1.2415E+09
I-135	2.7933E-02	7.9539E-12	3.5481E+13	1.0335E+09
Xe-133	2.9605E-02	1.5816E-10	7.1614E+14	1.0954E+09
Xe-133m	9.0809E-04	2.0626E-12	9.3395E+12	3.3599E+07
Xe-135	1.2461E-02	4.8794E-12	2.1766E+13	4.6104E+08
Xe-135m	6.0641E-03	6.6614E-14	2.9716E+11	2.2437E+08
Xe-138	2.5400E-02	2.6472E-13	1.1552E+12	9.3982E+08
Cs-134	3.2859E-03	2.5397E-09	1.1414E+16	1.2158E+08
Cs-136	1.0025E-03	1.3679E-11	6.0571E+13	3.7094E+07
Cs-137	2.5511E-03	2.9329E-08	1.2892E+17	9.4389E+07

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 0.0167	Release	Rate/s	
Noble gases (atoms)	5.1369E+15	8.5444E+13	
Elemental I (atoms)	3.3850E+13	5.6305E+11	
Organic I (atoms)	1.0469E+12	1.7414E+10	
Aerosols (kg)	3.2027E-08	5.3273E-10	
Dose Effective (Ci) I-131 (Thyroid)		2.0167E-02	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		2.5829E-02	
Total I (Ci)		1.2605E-01	

CR Filtered Intake Transport Group Inventory:

Pathway

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Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6729E+12	
Elemental I (atoms)	0.0000E+00	1.7616E+10	
Organic I (atoms)	0.0000E+00	5.4483E+08	
Aerosols (kg)	0.0000E+00	1.6665E-11	

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9096E+11	
Elemental I (atoms)	0.0000E+00	5.8721E+09	
Organic I (atoms)	0.0000E+00	1.8161E+08	
Aerosols (kg)	0.0000E+00	5.5549E-12	

CR Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	2.4249E+09	0.0000E+00	
Elemental I (atoms)	1.5982E+07	0.0000E+00	
Organic I (atoms)	4.9428E+05	0.0000E+00	
Aerosols (kg)	1.5119E-14	0.0000E+00	

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1369E+15	
Elemental I (atoms)	0.0000E+00	3.3856E+13	
Organic I (atoms)	0.0000E+00	1.0471E+12	
Aerosols (kg)	0.0000E+00	3.2027E-08	

RB Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m		1.4647E-06	7.2158E-17	5.2355E+08	1.6829E+06
Kr-85m		3.3104E-06	4.0226E-16	2.8500E+09	3.7994E+06
Kr-85		1.6777E-07	4.2802E-13	3.0324E+12	1.9240E+05
Kr-87		6.6355E-06	2.3426E-16	1.6215E+09	7.6307E+06
Kr-88		9.0611E-06	7.2262E-16	4.9451E+09	1.0404E+07
Rb-86		2.2781E-08	2.7998E-16	1.9605E+09	2.6125E+04
Rb-88		9.1704E-06	7.5967E-17	5.1987E+08	1.0429E+07
I-131		9.8982E-06	7.9840E-14	3.6703E+11	1.1351E+07
I-132		1.4345E-05	1.3898E-15	6.3405E+09	1.6476E+07
I-133		2.0514E-05	1.8109E-14	8.1996E+10	2.3529E+07
I-134		2.3237E-05	8.7106E-16	3.9147E+09	2.6755E+07
I-135		1.9363E-05	5.5137E-15	2.4596E+10	2.2217E+07
Xe-133		2.0525E-05	1.0965E-13	4.9651E+11	2.3538E+07
Xe-133m		6.2958E-07	1.4300E-15	6.4751E+09	7.2197E+05
Xe-135		8.6403E-06	3.3834E-15	1.5093E+10	9.8968E+06
Xe-135m		4.1993E-06	4.6129E-17	2.0578E+08	4.8033E+06
Xe-138		1.7536E-05	1.8275E-16	7.9751E+08	2.0412E+07
Cs-134		2.2782E-06	1.7608E-12	7.9132E+12	2.6126E+06
Cs-136		6.9507E-07	9.4837E-15	4.1994E+10	7.9711E+05
Cs-137		1.7687E-06	2.0334E-11	8.9382E+13	2.0283E+06

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump	
Noble gases (atoms)	3.5615E+12	0.0000E+00		
Elemental I (atoms)	2.3468E+10	0.0000E+00		
Organic I (atoms)	7.2581E+08	0.0000E+00		
Aerosols (kg)	2.2205E-11	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.2960E-15		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.6597E-15		
Total I (Ci)		8.7358E-05		

	Deposition	Recirculating
Time (h) =	0.0167	Surfaces Filter

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Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6729E+12
Elemental I (atoms)	0.0000E+00	1.7616E+10
Organic I (atoms)	0.0000E+00	5.4483E+08
Aerosols (kg)	0.0000E+00	1.6665E-11

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9096E+11
Elemental I (atoms)	0.0000E+00	5.8721E+09
Organic I (atoms)	0.0000E+00	1.8161E+08
Aerosols (kg)	0.0000E+00	5.5549E-12

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	2.4249E+09	0.0000E+00
Elemental I (atoms)	1.5982E+07	0.0000E+00
Organic I (atoms)	4.9428E+05	0.0000E+00
Aerosols (kg)	1.5119E-14	0.0000E+00

EAB Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6682E-04	1.1255E-01	5.5301E-03
Accumulated dose (rem)	7.7325E-04	1.1347E-01	5.5753E-03

LPZ Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0439E-04	1.5322E-02	7.5284E-04
Accumulated dose (rem)	1.0527E-04	1.5447E-02	7.5900E-04

CR Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2185E-06	1.3040E-03	5.6416E-05
Accumulated dose (rem)	1.2226E-06	1.3129E-03	5.6799E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.0833	Ci	kg	Atoms	Decay
Kr-83m	1.3290E+05	6.5470E-06	4.7502E+19	8.2574E+17
Kr-85m	3.0475E+05	3.7032E-05	2.6236E+20	1.8815E+18
Kr-85	1.5605E+04	3.9811E-02	2.8205E+23	9.5905E+16
Kr-87	5.9518E+05	2.1012E-05	1.4545E+20	3.7168E+18
Kr-88	8.2920E+05	6.6129E-05	4.5254E+20	5.1327E+18
Rb-86	2.1187E+03	2.6039E-05	1.8233E+20	1.3022E+16
Rb-88	8.5181E+05	7.0563E-06	4.8288E+19	5.1831E+18
I-131	9.2044E+05	7.4244E-03	3.4131E+22	5.6576E+18
I-132	1.3216E+06	1.2804E-04	5.8413E+20	8.1650E+18
I-133	1.9038E+06	1.6806E-03	7.6097E+21	1.1712E+19
I-134	2.0505E+06	7.6863E-05	3.4543E+20	1.2897E+19
I-135	1.7885E+06	5.0927E-04	2.2718E+21	1.1026E+19
Xe-133	1.9091E+06	1.0199E-02	4.6181E+22	1.1733E+19
Xe-133m	5.8556E+04	1.3300E-04	6.0223E+20	3.5987E+17
Xe-135	8.0921E+05	3.1687E-04	1.4135E+21	4.9544E+18
Xe-135m	3.7105E+05	4.0760E-06	1.8182E+19	2.3106E+18
Xe-138	1.3420E+06	1.3986E-05	6.1033E+19	8.9987E+18
Cs-134	2.1190E+05	1.6377E-01	7.3602E+23	1.3023E+18
Cs-136	6.4640E+04	8.8197E-04	3.9054E+21	3.9730E+17
Cs-137	1.6451E+05	1.8913E+00	8.3136E+24	1.0111E+18

DW Transport Group Inventory:

Time (h) = 0.0833	Atmosphere	Sump
Noble gases (atoms)	3.3124E+23	0.0000E+00
Elemental I (atoms)	2.1797E+21	0.0000E+00

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Organic I (atoms)	6.7412E+19	0.0000E+00	
Aerosols (kg)	2.0653E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4982E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9154E-04
Total I (Ci)			7.9848E+06

DW to WW Transport Group Inventory:
Time (h) = 0.0833 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 0.0833 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7799E+20
Elemental I (atoms)	0.0000E+00	1.8305E+18
Organic I (atoms)	0.0000E+00	5.6615E+16
Aerosols (kg)	0.0000E+00	1.7333E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7415E+17
Elemental I (atoms)	0.0000E+00	4.4392E+15
Organic I (atoms)	0.0000E+00	1.3730E+14
Aerosols (kg)	0.0000E+00	4.2033E-06

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8280E+18
Elemental I (atoms)	0.0000E+00	1.2037E+16
Organic I (atoms)	0.0000E+00	3.7229E+14
Aerosols (kg)	0.0000E+00	1.1398E-05

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8280E+18
Elemental I (atoms)	0.0000E+00	1.2037E+16
Organic I (atoms)	0.0000E+00	3.7229E+14
Aerosols (kg)	0.0000E+00	1.1398E-05

RB Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-83m		1.1128E+02	5.4818E-09	3.9774E+16	4.8703E+14
Kr-85m		2.5517E+02	3.1007E-08	2.1968E+17	1.1114E+15
Kr-85		1.3066E+01	3.3334E-05	2.3616E+20	5.6712E+13
Kr-87		4.9835E+02	1.7593E-08	1.2178E+17	2.1896E+15
Kr-88		6.9429E+02	5.5370E-08	3.7891E+17	3.0300E+15
Rb-86		1.7740E+00	2.1802E-08	1.5267E+17	7.7003E+12
Rb-88		7.1322E+02	5.9082E-09	4.0432E+16	3.0647E+15
I-131		7.7068E+02	6.2165E-06	2.8577E+19	3.3454E+15
I-132		1.1022E+03	1.0678E-07	4.8714E+17	4.8082E+15
I-133		1.5941E+03	1.4072E-06	6.3716E+18	6.9242E+15
I-134		1.7168E+03	6.4358E-08	2.8923E+17	7.5849E+15
I-135		1.4975E+03	4.2641E-07	1.9022E+18	6.5151E+15
Xe-133		1.5985E+03	8.5398E-06	3.8667E+19	6.9381E+15
Xe-133m		4.9029E+01	1.1136E-07	5.0425E+17	2.1280E+14
Xe-135		6.7755E+02	2.6532E-07	1.1835E+18	2.9318E+15
Xe-135m		3.1068E+02	3.4128E-09	1.5224E+16	1.3590E+15
Xe-138		1.1236E+03	1.1710E-08	5.1103E+16	5.2120E+15

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Cs-134	1.7742E+02	1.3713E-04	6.1627E+20	7.7010E+14
Cs-136	5.4123E+01	7.3847E-07	3.2700E+18	2.3493E+14
Cs-137	1.3774E+02	1.5836E-03	6.9610E+21	5.9787E+14

RB Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump	
Noble gases (atoms)	2.7735E+20	0.0000E+00		
Elemental I (atoms)	1.8249E+18	0.0000E+00		
Organic I (atoms)	5.6441E+16	0.0000E+00		
Aerosols (kg)	1.7293E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.9799E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.5310E-08	
Total I (Ci)			6.6813E+03	

DW to RB Transport Group Inventory:

		Pathway	
Time (h) =	0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7799E+20	
Elemental I (atoms)	0.0000E+00	1.8305E+18	
Organic I (atoms)	0.0000E+00	5.6615E+16	
Aerosols (kg)	0.0000E+00	1.7333E-03	

WW to RB Transport Group Inventory:

		Pathway	
Time (h) =	0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

Drawdown Release from RB to Environment Transport Group Inventory:

		Pathway	
Time (h) =	0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3639E+17	
Elemental I (atoms)	0.0000E+00	4.1898E+15	
Organic I (atoms)	0.0000E+00	1.2958E+14	
Aerosols (kg)	0.0000E+00	3.9679E-06	

RB Exhaust to Environment Transport Group Inventory:

		Pathway	
Time (h) =	0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

Environment Integral Nuclide Release:

Time (h) =	0.0833	Ci	kg	Atoms	Bq
Kr-83m		2.5691E-01	1.2656E-11	9.1827E+13	9.5057E+09
Kr-85m		5.8700E-01	7.1328E-11	5.0535E+14	2.1719E+10
Kr-85		2.9980E-02	7.6485E-08	5.4189E+17	1.1093E+09
Kr-87		1.1539E+00	4.0735E-11	2.8197E+14	4.2693E+10
Kr-88		1.5995E+00	1.2756E-10	8.7295E+14	5.9182E+10
Rb-86		4.0706E-03	5.0027E-11	3.5031E+14	1.5061E+08
Rb-88		1.6373E+00	1.3564E-11	9.2820E+13	6.0582E+10
I-131		1.7685E+00	1.4265E-08	6.5575E+16	6.5433E+10
I-132		2.5366E+00	2.4574E-10	1.1211E+15	9.3854E+10
I-133		3.6596E+00	3.2306E-09	1.4628E+16	1.3541E+11
I-134		3.9915E+00	1.4962E-10	6.7243E+14	1.4768E+11
I-135		3.4420E+00	9.8011E-10	4.3721E+15	1.2735E+11
Xe-133		3.6678E+00	1.9595E-08	8.8724E+16	1.3571E+11
Xe-133m		1.1250E-01	2.5553E-10	1.1570E+15	4.1625E+09
Xe-135		1.5520E+00	6.0776E-10	2.7111E+15	5.7426E+10
Xe-135m		7.2179E-01	7.9289E-12	3.5370E+13	2.6706E+10
Xe-138		2.7089E+00	2.8232E-11	1.2320E+14	1.0023E+11
Cs-134		4.0710E-01	3.1465E-07	1.4141E+18	1.5063E+10
Cs-136		1.2419E-01	1.6945E-09	7.5034E+15	4.5951E+09
Cs-137		3.1605E-01	3.6336E-06	1.5972E+19	1.1694E+10

Environment Transport Group Inventory:

		Total	Release
Time (h) =	0.0833	Release	Rate/s

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Noble gases (atoms)	6.3639E+17	2.1221E+15	
Elemental I (atoms)	4.1889E+15	1.3969E+13	
Organic I (atoms)	1.2955E+14	4.3202E+11	
Aerosols (kg)	3.9679E-06	1.3232E-08	
Dose Effective (Ci) I-131 (Thyroid)			2.4963E+00
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			3.1926E+00
Total I (Ci)			1.5398E+01

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9390E+14
Elemental I (atoms)	3.8535E+12	5.6540E+10
Organic I (atoms)	1.1918E+11	1.7487E+09
Aerosols (kg)	3.6494E-09	5.3527E-11

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1038E+14
Elemental I (atoms)	0.0000E+00	7.2668E+11
Organic I (atoms)	0.0000E+00	2.2475E+10
Aerosols (kg)	0.0000E+00	6.8820E-10

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	3.6551E+12	0.0000E+00
Elemental I (atoms)	4.2941E+09	0.0000E+00
Organic I (atoms)	1.3281E+08	0.0000E+00
Aerosols (kg)	4.0670E-12	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3639E+17
Elemental I (atoms)	0.0000E+00	4.1898E+15
Organic I (atoms)	0.0000E+00	1.2958E+14
Aerosols (kg)	0.0000E+00	3.9679E-06

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 0.0833	Ci	kg	Atoms	Decay
Kr-83m	2.8110E-04	1.3848E-14	1.0047E+11	9.6352E+08
Kr-85m	6.4458E-04	7.8326E-14	5.5493E+11	2.2008E+09
Kr-85	3.3005E-05	8.4204E-11	5.9657E+14	1.1238E+08
Kr-87	1.2589E-03	4.4443E-14	3.0763E+11	4.3285E+09
Kr-88	1.7538E-03	1.3987E-13	9.5717E+11	5.9978E+09
Rb-86	7.5499E-07	9.2788E-15	6.4975E+10	2.6967E+06
Rb-88	3.8765E-04	3.2112E-15	2.1975E+10	1.2202E+09
I-131	3.2799E-04	2.6457E-12	1.2162E+13	1.1716E+09
I-132	4.6811E-04	4.5350E-14	2.0690E+11	1.6799E+09
I-133	6.7842E-04	5.9888E-13	2.7117E+12	2.4247E+09
I-134	7.3067E-04	2.7390E-14	1.2309E+11	2.6502E+09
I-135	6.3732E-04	1.8148E-13	8.0954E+11	2.2809E+09
Xe-133	4.0375E-03	2.1570E-11	9.7667E+13	1.3747E+10
Xe-133m	1.2382E-04	2.8125E-13	1.2735E+12	4.2162E+08
Xe-135	1.7064E-03	6.6820E-13	2.9807E+12	5.8032E+09
Xe-135m	7.5350E-04	8.2773E-15	3.6924E+10	2.6297E+09
Xe-138	2.8384E-03	2.9582E-14	1.2909E+11	1.0195E+10
Cs-134	7.5509E-05	5.8361E-11	2.6228E+14	2.6969E+08
Cs-136	2.3034E-05	3.1429E-13	1.3917E+12	8.2276E+07
Cs-137	5.8622E-05	6.7395E-10	2.9625E+15	2.0938E+08

CR Transport Group Inventory:

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Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)		7.0058E+14	0.0000E+00
Elemental I (atoms)		7.7665E+11	0.0000E+00
Organic I (atoms)		2.4020E+10	0.0000E+00
Aerosols (kg)		7.3597E-10	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.2904E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.4844E-14
Total I (Ci)			2.8425E-03

	Deposition	Recirculating
Time (h) =	0.0833	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7868E+09
Organic I (atoms)	0.0000E+00	5.5261E+07
Aerosols (kg)	0.0000E+00	1.6923E-12

CR Filtered Intake Transport Group Inventory:

	Pathway
Time (h) =	0.0833
Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	3.8535E+12
Organic I (atoms)	1.1918E+11
Aerosols (kg)	3.6494E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway
Time (h) =	0.0833
Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway
Time (h) =	0.0833
Noble gases (atoms)	3.6551E+12
Elemental I (atoms)	4.2941E+09
Organic I (atoms)	1.3281E+08
Aerosols (kg)	4.0670E-12

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.3503E-03	1.1707E+00	5.6894E-02
Accumulated dose (rem)		8.1235E-03	1.2841E+00	6.2469E-02

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0006E-03	1.5937E-01	7.7452E-03
Accumulated dose (rem)		1.1059E-03	1.7482E-01	8.5042E-03

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.0934E-05	8.2917E-02	3.5837E-03
Accumulated dose (rem)		7.2157E-05	8.4230E-02	3.6405E-03

DW Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
Kr-83m		4.8470E+05	2.3878E-05	1.7325E+20	1.1548E+19
Kr-85m		1.1737E+06	1.4262E-04	1.0105E+21	2.7275E+19
Kr-85		6.2469E+04	1.5937E-01	1.1291E+24	1.4265E+18
Kr-87		2.0791E+06	7.3400E-05	5.0808E+20	5.0531E+19
Kr-88		3.1230E+06	2.4906E-04	1.7044E+21	7.3317E+19
Rb-86		8.4783E+03	1.0420E-04	7.2964E+20	1.9364E+17
Rb-88		3.3380E+06	2.7651E-05	1.8923E+20	7.6240E+19
I-131		3.6817E+06	2.9697E-02	1.3652E+23	8.4105E+19
I-132		5.0919E+06	4.9330E-04	2.2506E+21	1.1839E+20
I-133		7.5581E+06	6.6720E-03	3.0210E+22	1.7324E+20
I-134		6.7362E+06	2.5251E-04	1.1348E+21	1.6849E+20
I-135		6.9744E+06	1.9860E-03	8.8591E+21	1.6116E+20
Xe-133		7.6425E+06	4.0829E-02	1.8487E+23	1.7452E+20
Xe-133m		2.3437E+05	5.3234E-04	2.4104E+21	5.3521E+18

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Xe-135	3.3173E+06	1.2990E-03	5.7946E+21	7.4903E+19
Xe-135m	1.2818E+06	1.4081E-05	6.2813E+19	3.0850E+19
Xe-138	2.5832E+06	2.6922E-05	1.1748E+20	8.4386E+19
Cs-134	8.4826E+05	6.5562E-01	2.9464E+24	1.9371E+19
Cs-136	2.5863E+05	3.5288E-03	1.5626E+22	5.9074E+18
Cs-137	6.5856E+05	7.5712E+00	3.3281E+25	1.5039E+19

DW Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)	1.3258E+24	0.0000E+00	
Elemental I (atoms)	8.6802E+21	0.0000E+00	
Organic I (atoms)	2.6846E+20	0.0000E+00	
Aerosols (kg)	8.2677E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)		5.9727E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.5897E-04	
Total I (Ci)		3.0042E+07	

DW to WW Transport Group Inventory:

Time (h) = 0.3333 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3333 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.8961E+20
Elemental I (atoms)	0.0000E+00	2.5629E+18
Organic I (atoms)	0.0000E+00	7.9264E+16
Aerosols (kg)	0.0000E+00	2.4293E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0793E+19
Elemental I (atoms)	0.0000E+00	7.0829E+16
Organic I (atoms)	0.0000E+00	2.1906E+15
Aerosols (kg)	0.0000E+00	6.7301E-05

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.9266E+19
Elemental I (atoms)	0.0000E+00	1.9206E+17
Organic I (atoms)	0.0000E+00	5.9400E+15
Aerosols (kg)	0.0000E+00	1.8249E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.9266E+19
Elemental I (atoms)	0.0000E+00	1.9206E+17
Organic I (atoms)	0.0000E+00	5.9400E+15
Aerosols (kg)	0.0000E+00	1.8249E-04

RB Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
Kr-83m		1.3978E+02	6.8858E-09	4.9960E+16	4.5710E+15
Kr-85m		3.3847E+02	4.1129E-08	2.9139E+17	1.0747E+16
Kr-85		1.8015E+01	4.5959E-05	3.2562E+20	5.6023E+14
Kr-87		5.9957E+02	2.1167E-08	1.4652E+17	2.0075E+16
Kr-88		9.0060E+02	7.1823E-08	4.9151E+17	2.8942E+16
Rb-86		2.4450E+00	3.0048E-08	2.1041E+17	7.6050E+13

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Rb-88	9.6260E+02	7.9740E-09	5.4569E+16	2.9993E+16
I-131	1.0617E+03	8.5634E-06	3.9367E+19	3.3031E+16
I-132	1.4202E+03	1.3759E-07	6.2771E+17	4.5752E+16
I-133	2.1796E+03	1.9241E-06	8.7120E+18	6.8085E+16
I-134	1.9426E+03	7.2819E-08	3.2726E+17	6.7289E+16
I-135	2.0113E+03	5.7271E-07	2.5548E+18	6.3433E+16
Xe-133	2.2039E+03	1.1774E-05	5.3313E+19	6.8537E+16
Xe-133m	6.7586E+01	1.5352E-07	6.9511E+17	2.1019E+15
Xe-135	9.5663E+02	3.7460E-07	1.6710E+18	2.9357E+16
Xe-135m	3.6965E+02	4.0606E-09	1.8114E+16	1.2273E+16
Xe-138	7.4495E+02	7.7638E-09	3.3880E+16	3.5302E+16
Cs-134	2.4462E+02	1.8907E-04	8.4969E+20	7.6073E+15
Cs-136	7.4582E+01	1.0176E-06	4.5061E+18	2.3201E+15
Cs-137	1.8991E+02	2.1834E-03	9.5975E+21	5.9061E+15

RB Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump	
Noble gases (atoms)	3.8233E+20	0.0000E+00		
Elemental I (atoms)	2.5020E+18	0.0000E+00		
Organic I (atoms)	7.7383E+16	0.0000E+00		
Aerosols (kg)	2.3842E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.7179E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.4512E-08	
Total I (Ci)			8.6153E+03	

DW to RB Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8961E+20	
Elemental I (atoms)	0.0000E+00	2.5629E+18	
Organic I (atoms)	0.0000E+00	7.9264E+16	
Aerosols (kg)	0.0000E+00	2.4293E-03	

WW to RB Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

Drawdown Release from RB to Environment Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2189E+18	
Elemental I (atoms)	0.0000E+00	4.7381E+16	
Organic I (atoms)	0.0000E+00	1.4654E+15	
Aerosols (kg)	0.0000E+00	4.5014E-05	

RB Exhaust to Environment Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

Environment Integral Nuclide Release:

Time (h) =	0.3333	Ci	kg	Atoms	Bq
Kr-83m		2.7679E+00	1.3635E-10	9.8932E+14	1.0241E+11
Kr-85m		6.5173E+00	7.9194E-10	5.6108E+15	2.4114E+11
Kr-85		3.4011E-01	8.6770E-07	6.1475E+18	1.2584E+10
Kr-87		1.2141E+01	4.2864E-10	2.9670E+15	4.4923E+11
Kr-88		1.7541E+01	1.3989E-09	9.5730E+15	6.4901E+11
Rb-86		4.6169E-02	5.6742E-10	3.9733E+15	1.7083E+09
Rb-88		1.8401E+01	1.5243E-10	1.0431E+15	6.8084E+11
I-131		2.0053E+01	1.6175E-07	7.4356E+17	7.4195E+11
I-132		2.7715E+01	2.6850E-09	1.2250E+16	1.0255E+12
I-133		4.1325E+01	3.6480E-08	1.6518E+17	1.5290E+12
I-134		4.0626E+01	1.5229E-09	6.8441E+15	1.5032E+12
I-135		3.8482E+01	1.0958E-08	4.8880E+16	1.4238E+12
Xe-133		4.1610E+01	2.2230E-07	1.0065E+18	1.5396E+12
Xe-133m		1.2761E+00	2.8986E-09	1.3125E+16	4.7217E+10

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Xe-135	1.7849E+01	6.9895E-09	3.1179E+16	6.6042E+11
Xe-135m	7.4953E+00	8.2336E-11	3.6729E+14	2.7733E+11
Xe-138	2.0984E+01	2.1869E-10	9.5432E+14	7.7639E+11
Cs-134	4.6184E+00	3.5695E-06	1.6042E+19	1.7088E+11
Cs-136	1.4085E+00	1.9218E-08	8.5097E+16	5.2114E+10
Cs-137	3.5855E+00	4.1222E-05	1.8120E+20	1.3266E+11

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 0.3333	Release	Rate/s	
Noble gases (atoms)	7.2188E+18	6.0163E+15	
Elemental I (atoms)	4.7371E+16	3.9479E+13	
Organic I (atoms)	1.4651E+15	1.2210E+12	
Aerosols (kg)	4.5014E-05	3.7515E-08	
Dose Effective (Ci) I-131 (Thyroid)		2.8251E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		3.5992E+01	
Total I (Ci)		1.6820E+02	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7589E+15
Elemental I (atoms)	4.3901E+13	4.6106E+11
Organic I (atoms)	1.3578E+12	1.4260E+10
Aerosols (kg)	4.1708E-08	4.3796E-10

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2520E+15
Elemental I (atoms)	0.0000E+00	8.2178E+12
Organic I (atoms)	0.0000E+00	2.5416E+11
Aerosols (kg)	0.0000E+00	7.8072E-09

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	2.5950E+14	0.0000E+00
Elemental I (atoms)	2.7913E+11	0.0000E+00
Organic I (atoms)	8.6328E+09	0.0000E+00
Aerosols (kg)	2.6543E-10	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2189E+18
Elemental I (atoms)	0.0000E+00	4.7381E+16
Organic I (atoms)	0.0000E+00	1.4654E+15
Aerosols (kg)	0.0000E+00	4.5014E-05

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	2.8336E-03	1.3959E-13	1.0128E+12	5.3862E+10
Kr-85m	6.8617E-03	8.3378E-13	5.9073E+12	1.2777E+11
Kr-85	3.6520E-04	9.3171E-10	6.6011E+15	6.7030E+09
Kr-87	1.2155E-02	4.2911E-13	2.9703E+12	2.3487E+11
Kr-88	1.8257E-02	1.4560E-12	9.9641E+12	3.4285E+11
Rb-86	8.0693E-06	9.9171E-14	6.9445E+11	1.4919E+08
Rb-88	7.2124E-03	5.9746E-14	4.0886E+11	1.0879E+11
I-131	3.5038E-03	2.8262E-11	1.2992E+14	6.4793E+10
I-132	4.6624E-03	4.5169E-13	2.0607E+12	8.8534E+10
I-133	7.1935E-03	6.3502E-12	2.8753E+13	1.3340E+11
I-134	6.4112E-03	2.4033E-13	1.0801E+12	1.2782E+11

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I-135	6.6380E-03	1.8902E-12	8.4317E+12	1.2392E+11
Xe-133	4.4652E-02	2.3855E-10	1.0801E+15	8.1971E+11
Xe-133m	1.3683E-03	3.1079E-12	1.4072E+13	2.5126E+10
Xe-135	1.9084E-02	7.4730E-12	3.3336E+13	3.4898E+11
Xe-135m	5.9786E-03	6.5675E-14	2.9296E+11	1.2440E+11
Xe-138	1.5102E-02	1.5739E-13	6.8684E+11	3.7152E+11
Cs-134	8.0734E-04	6.2399E-10	2.8043E+15	1.4924E+10
Cs-136	2.4615E-04	3.3585E-12	1.4872E+13	4.5513E+09
Cs-137	6.2679E-04	7.2060E-09	3.1675E+16	1.1587E+10

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)	7.7494E+15	0.0000E+00	
Elemental I (atoms)	8.2571E+12	0.0000E+00	
Organic I (atoms)	2.5537E+11	0.0000E+00	
Aerosols (kg)	7.8688E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.5673E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.7990E-13	
Total I (Ci)		2.8409E-02	

Deposition Recirculating

Time (h) =	0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.1657E+11	
Organic I (atoms)	0.0000E+00	3.6053E+09	
Aerosols (kg)	0.0000E+00	1.1085E-10	

CR Filtered Intake Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7589E+15	
Elemental I (atoms)	4.3901E+13	4.6106E+11	
Organic I (atoms)	1.3578E+12	1.4260E+10	
Aerosols (kg)	4.1708E-08	4.3796E-10	

CR Unfiltered Inleakage Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2520E+15	
Elemental I (atoms)	0.0000E+00	8.2178E+12	
Organic I (atoms)	0.0000E+00	2.5416E+11	
Aerosols (kg)	0.0000E+00	7.8072E-09	

CR Exhaust to Environment Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	2.5950E+14	0.0000E+00	
Elemental I (atoms)	2.7913E+11	0.0000E+00	
Organic I (atoms)	8.6328E+09	0.0000E+00	
Aerosols (kg)	2.6543E-10	0.0000E+00	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8173E-03	1.0011E+00	4.8186E-02	
Accumulated dose (rem)	1.3941E-02	2.2853E+00	1.1065E-01	

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.9194E-04	1.3629E-01	6.5597E-03	
Accumulated dose (rem)	1.8978E-03	3.1110E-01	1.5064E-02	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1051E-04	1.4277E-01	6.1633E-03	
Accumulated dose (rem)	1.8267E-04	2.2700E-01	9.8038E-03	

DW Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m		6.8332E+05	3.3662E-05	2.4424E+20	2.4720E+19
Kr-85m		1.7159E+06	2.0850E-04	1.4772E+21	5.9791E+19
Kr-85		9.3713E+04	2.3908E-01	1.6939E+24	3.1810E+18

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Kr-87	2.8481E+06	1.0055E-04	6.9599E+20	1.0618E+20
Kr-88	4.4982E+06	3.5873E-04	2.4549E+21	1.5915E+20
Rb-86	1.5498E+03	1.9047E-05	1.3338E+20	2.6450E+17
Rb-88	9.9723E+05	8.2609E-06	5.6532E+19	1.0720E+20
I-131	6.8012E+05	5.4860E-03	2.5219E+22	1.1498E+20
I-132	9.5783E+05	9.2794E-05	4.2335E+20	1.6121E+20
I-133	1.3891E+06	1.2263E-03	5.5525E+21	2.3651E+20
I-134	1.0912E+06	4.0906E-05	1.8384E+20	2.2240E+20
I-135	1.2667E+06	3.6068E-04	1.6089E+21	2.1930E+20
Xe-133	1.1459E+07	6.1217E-02	2.7719E+23	3.8911E+20
Xe-133m	3.5111E+05	7.9752E-04	3.6111E+21	1.1930E+19
Xe-135	4.9804E+06	1.9503E-03	8.6998E+21	1.6817E+20
Xe-135m	1.4414E+06	1.5834E-05	7.0631E+19	6.2134E+19
Xe-138	2.3783E+06	2.4786E-05	1.0816E+20	1.4087E+20
Cs-134	1.5510E+05	1.1987E-01	5.3873E+23	2.6461E+19
Cs-136	4.7271E+04	6.4498E-04	2.8560E+21	8.0688E+18
Cs-137	1.2041E+05	1.3844E+00	6.0852E+24	2.0543E+19

DW Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	1.9884E+24	0.0000E+00	
Elemental I (atoms)	1.5828E+21	1.1424E+22	
Organic I (atoms)	4.0139E+20	0.0000E+00	
Aerosols (kg)	1.5117E+00	1.0891E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1012E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3955E-04
Total I (Ci)			5.3850E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3847E+20
Elemental I (atoms)	0.0000E+00	2.8738E+18
Organic I (atoms)	0.0000E+00	1.0936E+17
Aerosols (kg)	0.0000E+00	2.7257E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4288E+19
Elemental I (atoms)	0.0000E+00	9.9015E+16
Organic I (atoms)	0.0000E+00	4.9189E+15
Aerosols (kg)	0.0000E+00	9.4172E-05

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.5859E+19
Elemental I (atoms)	0.0000E+00	2.6849E+17
Organic I (atoms)	0.0000E+00	1.3338E+16
Aerosols (kg)	0.0000E+00	2.5536E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.5859E+19
Elemental I (atoms)	0.0000E+00	2.6849E+17
Organic I (atoms)	0.0000E+00	1.3338E+16

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Aerosols (kg) 0.0000E+00 2.5536E-04

RB Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m		1.8038E+02	8.8862E-09	6.4475E+16	8.1316E+15
Kr-85m		4.5296E+02	5.5041E-08	3.8996E+17	1.9534E+16
Kr-85		2.4738E+01	6.3113E-05	4.4715E+20	1.0343E+15
Kr-87		7.5184E+02	2.6543E-08	1.8373E+17	3.5122E+16
Kr-88		1.1874E+03	9.4697E-08	6.4804E+17	5.2142E+16
Rb-86		2.7121E+00	3.3332E-08	2.3341E+17	1.3447E+14
Rb-88		1.0905E+03	9.0336E-09	6.1820E+16	5.2787E+16
I-131		1.1777E+03	9.4995E-06	4.3669E+19	5.8396E+16
I-132		1.5081E+03	1.4610E-07	6.6656E+17	7.8960E+16
I-133		2.4059E+03	2.1238E-06	9.6164E+18	1.2003E+17
I-134		1.8899E+03	7.0845E-08	3.1839E+17	1.1074E+17
I-135		2.1937E+03	6.2466E-07	2.7865E+18	1.1108E+17
Xe-133		3.0261E+03	1.6166E-05	7.3200E+19	1.2653E+17
Xe-133m		9.2769E+01	2.1072E-07	9.5411E+17	3.8801E+15
Xe-135		1.3280E+03	5.2002E-07	2.3197E+18	5.4676E+16
Xe-135m		4.5043E+02	4.9480E-09	2.2072E+16	2.1387E+16
Xe-138		6.2782E+02	6.5431E-09	2.8553E+16	5.0613E+16
Cs-134		2.7142E+02	2.0978E-04	9.4277E+20	1.3453E+16
Cs-136		8.2723E+01	1.1287E-06	4.9979E+18	4.1019E+15
Cs-137		2.1072E+02	2.4226E-03	1.0649E+22	1.0444E+16

RB Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)		5.2496E+20	0.0000E+00
Elemental I (atoms)		2.7663E+18	0.0000E+00
Organic I (atoms)		1.0590E+17	0.0000E+00
Aerosols (kg)		2.6454E-03	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			3.0082E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.8043E-08
Total I (Ci)			9.1753E+03

DW to RB Transport Group Inventory:

Time (h) =	0.5000	Pathway	Filtered	Transported
Noble gases (atoms)			0.0000E+00	5.3847E+20
Elemental I (atoms)			0.0000E+00	2.8738E+18
Organic I (atoms)			0.0000E+00	1.0936E+17
Aerosols (kg)			0.0000E+00	2.7257E-03

WW to RB Transport Group Inventory:

Time (h) =	0.5000	Pathway	Filtered	Transported
Noble gases (atoms)			0.0000E+00	0.0000E+00
Elemental I (atoms)			0.0000E+00	0.0000E+00
Organic I (atoms)			0.0000E+00	0.0000E+00
Aerosols (kg)			0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

Time (h) =	0.5000	Pathway	Filtered	Transported
Noble gases (atoms)			0.0000E+00	1.3398E+19
Elemental I (atoms)			0.0000E+00	8.4276E+16
Organic I (atoms)			0.0000E+00	2.7139E+15
Aerosols (kg)			0.0000E+00	8.0231E-05

RB Exhaust to Environment Transport Group Inventory:

Time (h) =	0.5000	Pathway	Filtered	Transported
Noble gases (atoms)			0.0000E+00	0.0000E+00
Elemental I (atoms)			0.0000E+00	0.0000E+00
Organic I (atoms)			0.0000E+00	0.0000E+00
Aerosols (kg)			0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) =	0.5000	Ci	kg	Atoms	Bq
Kr-83m		4.9505E+00	2.4388E-10	1.7695E+15	1.8317E+11
Kr-85m		1.1910E+01	1.4472E-09	1.0253E+16	4.4066E+11
Kr-85		6.3126E-01	1.6105E-06	1.1410E+19	2.3357E+10

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Kr-87	2.1357E+01	7.5399E-10	5.2191E+15	7.9022E+11
Kr-88	3.1771E+01	2.5338E-09	1.7339E+16	1.1755E+12
Rb-86	8.2279E-02	1.0112E-09	7.0809E+15	3.0443E+09
Rb-88	3.2654E+01	2.7050E-10	1.8511E+15	1.2082E+12
I-131	3.5732E+01	2.8822E-07	1.3249E+18	1.3221E+12
I-132	4.8208E+01	4.6703E-09	2.1307E+16	1.7837E+12
I-133	7.3428E+01	6.4820E-08	2.9350E+17	2.7168E+12
I-134	6.7381E+01	2.5258E-09	1.1351E+16	2.4931E+12
I-135	6.7917E+01	1.9339E-08	8.6270E+16	2.5129E+12
Xe-133	7.7227E+01	4.1258E-07	1.8681E+18	2.8574E+12
Xe-133m	2.3682E+00	5.3792E-09	2.4357E+16	8.7625E+10
Xe-135	3.3416E+01	1.3085E-08	5.8372E+16	1.2364E+12
Xe-135m	1.3141E+01	1.4435E-10	6.4392E+14	4.8620E+11
Xe-138	3.0252E+01	3.1529E-10	1.3759E+15	1.1193E+12
Cs-134	8.2316E+00	6.3622E-06	2.8593E+19	3.0457E+11
Cs-136	2.5099E+00	3.4246E-08	1.5164E+17	9.2867E+10
Cs-137	6.3908E+00	7.3472E-05	3.2296E+20	2.3646E+11

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 0.5000	Release	Rate/s	
Noble gases (atoms)	1.3397E+19	7.4431E+15	
Elemental I (atoms)	8.4257E+16	4.6810E+13	
Organic I (atoms)	2.7133E+15	1.5074E+12	
Aerosols (kg)	8.0231E-05	4.4573E-08	
Dose Effective (Ci) I-131 (Thyroid)		5.0274E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		6.3897E+01	
Total I (Ci)		2.9267E+02	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2546E+16
Elemental I (atoms)	7.8110E+13	8.0661E+11
Organic I (atoms)	2.5154E+12	2.5953E+10
Aerosols (kg)	7.4361E-08	7.6779E-10

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3237E+15
Elemental I (atoms)	0.0000E+00	1.4617E+13
Organic I (atoms)	0.0000E+00	4.7070E+11
Aerosols (kg)	0.0000E+00	1.3915E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	7.1277E+14	0.0000E+00
Elemental I (atoms)	7.5195E+11	0.0000E+00
Organic I (atoms)	2.3479E+10	0.0000E+00
Aerosols (kg)	7.1685E-10	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3398E+19
Elemental I (atoms)	0.0000E+00	8.4276E+16
Organic I (atoms)	0.0000E+00	2.7139E+15
Aerosols (kg)	0.0000E+00	8.0231E-05

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
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Kr-83m	4.8637E-03	2.3960E-13	1.7384E+12	1.4006E+11
Kr-85m	1.2213E-02	1.4841E-12	1.0514E+13	3.4067E+11
Kr-85	6.6702E-04	1.7017E-09	1.2056E+16	1.8196E+10
Kr-87	2.0272E-02	7.1567E-13	4.9539E+12	5.9888E+11
Kr-88	3.2017E-02	2.5533E-12	1.7473E+13	9.0474E+11
Rb-86	1.4011E-05	1.7220E-13	1.2058E+12	3.9779E+08
Rb-88	1.4924E-02	1.2363E-13	8.4605E+11	3.4503E+11
I-131	6.0824E-03	4.9061E-11	2.2554E+14	1.7272E+11
I-132	7.7324E-03	7.4911E-13	3.4176E+12	2.2866E+11
I-133	1.2426E-02	1.0969E-11	4.9666E+13	3.5438E+11
I-134	9.7608E-03	3.6589E-13	1.6444E+12	3.1182E+11
I-135	1.1330E-02	3.2262E-12	1.4392E+13	3.2653E+11
Xe-133	8.1530E-02	4.3556E-10	1.9722E+15	2.2247E+12
Xe-133m	2.4970E-03	5.6717E-12	2.5681E+13	6.8165E+10
Xe-135	3.5081E-02	1.3737E-11	6.1280E+13	9.5182E+11
Xe-135m	9.0945E-03	9.9904E-14	4.4565E+11	2.9523E+11
Xe-138	1.6928E-02	1.7642E-13	7.6988E+11	7.3862E+11
Cs-134	1.4022E-03	1.0838E-09	4.8706E+15	3.9800E+10
Cs-136	4.2736E-04	5.8311E-12	2.5820E+13	1.2134E+10
Cs-137	1.0886E-03	1.2516E-08	5.5015E+16	3.0900E+10

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump	
Noble gases (atoms)	1.4152E+16	0.0000E+00		
Elemental I (atoms)	1.4290E+13	0.0000E+00		
Organic I (atoms)	4.6125E+11	0.0000E+00		
Aerosols (kg)	1.3667E-08	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	7.9105E-13		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0003E-12		
Total I (Ci)		4.7331E-02		

	Deposition	Recirculating
Time (h) =	0.5000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.1405E+11
Organic I (atoms)	0.0000E+00	9.8058E+09
Aerosols (kg)	0.0000E+00	2.9939E-10

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2546E+16
Elemental I (atoms)	7.8110E+13	8.0661E+11
Organic I (atoms)	2.5154E+12	2.5953E+10
Aerosols (kg)	7.4361E-08	7.6779E-10

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3237E+15
Elemental I (atoms)	0.0000E+00	1.4617E+13
Organic I (atoms)	0.0000E+00	4.7070E+11
Aerosols (kg)	0.0000E+00	1.3915E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	7.1277E+14	0.0000E+00
Elemental I (atoms)	7.5195E+11	0.0000E+00
Organic I (atoms)	2.3479E+10	0.0000E+00
Aerosols (kg)	7.1685E-10	0.0000E+00

EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2696E-02	3.3490E+00	1.6673E-01	
Accumulated dose (rem)	3.6637E-02	5.6342E+00	2.7739E-01	

LPZ Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0897E-03	4.5591E-01	2.2698E-02	
Accumulated dose (rem)	4.9875E-03	7.6701E-01	3.7762E-02	

CR Doses:

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Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6580E-04	8.8956E-01	3.8714E-02
Accumulated dose (rem)		9.4847E-04	1.1166E+00	4.8518E-02

DW Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
Kr-83m		4.1594E+06	2.0490E-04	1.4867E+21	1.9629E+20
Kr-85m		1.1647E+07	1.4153E-03	1.0027E+22	5.2053E+20
Kr-85		6.8727E+05	1.7534E+00	1.2423E+25	2.9585E+19
Kr-87		1.5904E+07	5.6148E-04	3.8866E+21	7.8472E+20
Kr-88		2.9199E+07	2.3286E-03	1.5935E+22	1.3341E+21
Rb-86		1.7117E+03	2.1037E-05	1.4731E+20	3.7755E+17
Rb-88		3.7789E+06	3.1304E-05	2.1422E+20	2.4220E+20
Sr-89		9.4149E+04	3.2407E-03	2.1928E+22	5.6987E+18
Sr-90		1.0078E+04	7.3878E-02	4.9434E+23	6.0990E+17
Sr-91		1.0794E+05	2.9777E-05	1.9706E+20	6.6435E+18
Sr-92		9.3087E+04	7.4059E-06	4.8477E+19	5.9786E+18
Y-90		1.1031E+02	2.0275E-07	1.3566E+18	6.5743E+15
Y-91		1.1812E+03	4.8164E-05	3.1874E+20	7.1469E+16
Y-92		2.1958E+03	2.2820E-07	1.4937E+18	1.1877E+17
Y-93		1.2298E+03	3.6862E-07	2.3870E+18	7.5617E+16
Zr-95		1.3932E+03	6.4854E-05	4.1111E+20	8.4329E+16
Zr-97		1.2906E+03	6.7509E-07	4.1912E+18	7.8846E+16
Nb-95		1.3747E+03	3.5156E-05	2.2286E+20	8.3198E+16
Mo-99		1.7411E+04	3.6302E-05	2.2082E+20	1.0563E+18
Tc-99m		1.5496E+04	2.9470E-06	1.7926E+19	9.3752E+17
Ru-103		1.5222E+04	4.7163E-04	2.7575E+21	9.2137E+17
Ru-105		9.2828E+03	1.3809E-06	7.9202E+18	5.8246E+17
Ru-106		6.3322E+03	1.8927E-03	1.0753E+22	3.8323E+17
Rh-105		1.0097E+04	1.1963E-05	6.8610E+19	6.1118E+17
Sb-127		1.7395E+04	6.5138E-05	3.0887E+20	1.0546E+18
Sb-129		4.6125E+04	8.2024E-06	3.8292E+19	2.8971E+18
Te-127		1.7314E+04	6.5606E-06	3.1109E+19	1.0476E+18
Te-127m		2.9644E+03	3.1428E-04	1.4902E+21	1.7941E+17
Te-129		4.8004E+04	2.2922E-06	1.0701E+19	2.9446E+18
Te-129m		9.7227E+03	3.2274E-04	1.5067E+21	5.8841E+17
Te-131m		3.5991E+04	4.5135E-05	2.0749E+20	2.1898E+18
Te-132		2.6193E+05	8.6277E-04	3.9361E+21	1.5884E+19
I-131		9.4889E+05	7.6539E-03	3.5185E+22	1.7622E+20
I-132		1.3573E+06	1.3150E-04	5.9991E+20	2.4890E+20
I-133		1.9089E+06	1.6851E-03	7.6300E+21	3.6062E+20
I-134		1.0268E+06	3.8492E-05	1.7299E+20	3.0324E+20
I-135		1.6794E+06	4.7822E-04	2.1333E+21	3.3042E+20
Xe-133		8.3947E+07	4.4848E-01	2.0307E+24	3.6157E+21
Xe-133m		2.5678E+06	5.8326E-03	2.6410E+22	1.1070E+20
Xe-135		3.6979E+07	1.4480E-02	6.4595E+22	1.5861E+21
Xe-135m		6.2213E+06	6.8341E-05	3.0486E+20	3.6586E+20
Xe-138		4.0329E+06	4.2030E-05	1.8341E+20	4.3059E+20
Cs-134		1.7143E+05	1.3250E-01	5.9546E+23	3.7779E+19
Cs-136		5.2192E+04	7.1212E-04	3.1533E+21	1.1516E+19
Cs-137		1.3310E+05	1.5301E+00	6.7261E+24	2.9330E+19
Ba-139		8.6121E+04	5.2651E-06	2.2811E+19	5.8646E+18
Ba-140		1.3825E+05	1.8885E-03	8.1233E+21	8.3715E+18
La-140		1.5301E+03	2.7528E-06	1.1841E+19	9.0383E+16
La-141		1.0904E+03	1.9282E-07	8.2352E+17	6.8745E+16
La-142		8.1401E+02	5.6864E-08	2.4116E+17	5.4732E+16
Ce-141		3.2721E+03	1.1484E-04	4.9047E+20	1.9804E+17
Ce-143		3.1240E+03	4.7042E-06	1.9811E+19	1.8998E+17
Ce-144		2.6218E+03	8.2202E-04	3.4377E+21	1.5868E+17
Pr-143		1.2490E+03	1.8548E-05	7.8111E+19	7.5585E+16
Nd-147		5.0802E+02	6.2797E-06	2.5726E+19	3.0764E+16
Np-239		3.6857E+04	1.5887E-04	4.0031E+20	2.2369E+18
Pu-238		8.1470E+00	4.7589E-04	1.2041E+21	4.9306E+14
Pu-239		8.2166E-01	1.3219E-02	3.3309E+22	4.9726E+13
Pu-240		1.4514E+00	6.3724E-04	1.5990E+21	8.7839E+13
Pu-241		3.2245E+02	3.2606E-03	8.1477E+21	1.9515E+16
Am-241		1.8241E-01	5.3245E-05	1.3305E+20	1.1039E+13
Cm-242		5.0105E+01	1.5136E-05	3.7667E+19	3.0325E+15
Cm-244		3.3135E+00	4.0482E-05	9.9913E+19	2.0054E+14

DW Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)		1.4576E+25	0.0000E+00
Elemental I (atoms)		2.1693E+21	3.2387E+22
Organic I (atoms)		1.0608E+21	0.0000E+00
Aerosols (kg)		1.7748E+00	2.8199E+01

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Dose Effective (Ci/cc) I-131 (Thyroid)	1.5274E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)	1.9206E-04
Total I (Ci)	6.9214E+06

DW to WW Transport Group Inventory:
Time (h) = 1.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 1.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7704E+21
Elemental I (atoms)	0.0000E+00	3.4443E+18
Organic I (atoms)	0.0000E+00	3.0663E+17
Aerosols (kg)	0.0000E+00	3.1967E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2662E+20
Elemental I (atoms)	0.0000E+00	1.5073E+17
Organic I (atoms)	0.0000E+00	2.2803E+16
Aerosols (kg)	0.0000E+00	1.3687E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1450E+20
Elemental I (atoms)	0.0000E+00	4.0873E+17
Organic I (atoms)	0.0000E+00	6.1831E+16
Aerosols (kg)	0.0000E+00	3.7114E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1450E+20
Elemental I (atoms)	0.0000E+00	4.0873E+17
Organic I (atoms)	0.0000E+00	6.1831E+16
Aerosols (kg)	0.0000E+00	3.7114E-04

RB Compartment Nuclide Inventory:

Time (h) = 1.0000	Ci	kg	Atoms	Decay
Kr-83m	7.7074E+02	3.7969E-08	2.7548E+17	3.5820E+16
Kr-85m	2.1582E+03	2.6225E-07	1.8580E+18	9.3970E+16
Kr-85	1.2735E+02	3.2490E-04	2.3019E+21	5.3035E+15
Kr-87	2.9471E+03	1.0404E-07	7.2018E+17	1.4453E+17
Kr-88	5.4105E+03	4.3149E-07	2.9528E+18	2.4187E+17
Rb-86	3.0479E+00	3.7459E-08	2.6231E+17	3.2646E+14
Rb-88	2.9646E+03	2.4559E-08	1.6806E+17	1.6589E+17
Sr-89	2.2383E+01	7.7043E-07	5.2131E+18	6.9771E+14
Sr-90	2.3958E+00	1.7564E-05	1.1752E+20	7.4674E+13
Sr-91	2.5661E+01	7.0790E-09	4.6847E+16	8.0898E+14
Sr-92	2.2130E+01	1.7606E-09	1.1525E+16	7.1801E+14
Y-90	3.1872E-02	5.8582E-11	3.9199E+14	9.2429E+11
Y-91	2.8198E-01	1.1498E-08	7.6093E+16	8.7753E+12
Y-92	1.4797E+00	1.5378E-10	1.0066E+15	3.5217E+13
Y-93	2.9238E-01	8.7634E-11	5.6747E+14	9.2110E+12
Zr-95	3.3123E-01	1.5418E-08	9.7737E+16	1.0325E+13
Zr-97	3.0681E-01	1.6049E-10	9.9641E+14	9.6242E+12
Nb-95	3.2682E-01	8.3579E-09	5.2981E+16	1.0187E+13
Mo-99	4.1392E+00	8.6302E-09	5.2497E+16	1.2922E+14

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Tc-99m	3.6840E+00	7.0061E-10	4.2618E+15	1.1478E+14
Ru-103	3.6187E+00	1.1212E-07	6.5556E+17	1.1280E+14
Ru-105	2.2068E+00	3.2830E-10	1.8829E+15	7.0483E+13
Ru-106	1.5054E+00	4.4996E-07	2.5564E+18	4.6922E+13
Rh-105	2.4004E+00	2.8439E-09	1.6311E+16	7.4826E+13
Sb-127	4.1355E+00	1.5486E-08	7.3430E+16	1.2905E+14
Sb-129	1.0966E+01	1.9500E-09	9.1033E+15	3.5047E+14
Te-127	4.1162E+00	1.5597E-09	7.3958E+15	1.2826E+14
Te-127m	7.0475E-01	7.4715E-08	3.5429E+17	2.1966E+13
Te-129	1.1412E+01	5.4494E-10	2.5440E+15	3.5873E+14
Te-129m	2.3114E+00	7.6727E-08	3.5819E+17	7.2044E+13
Te-131m	8.5564E+00	1.0730E-08	4.9328E+16	2.6765E+14
Te-132	6.2270E+01	2.0511E-07	9.3576E+17	1.9436E+15
I-131	1.3699E+03	1.1050E-05	5.0798E+19	1.4320E+17
I-132	1.5710E+03	1.5220E-07	6.9437E+17	1.8140E+17
I-133	2.7571E+03	2.4339E-06	1.1020E+19	2.9196E+17
I-134	1.4831E+03	5.5596E-08	2.4985E+17	2.2268E+17
I-135	2.4257E+03	6.9071E-07	3.0812E+18	2.6501E+17
Xe-133	1.5552E+04	8.3085E-05	3.7620E+20	6.4823E+17
Xe-133m	4.7558E+02	1.0802E-06	4.8913E+18	1.9849E+16
Xe-135	6.8111E+03	2.6671E-06	1.1898E+19	2.8370E+17
Xe-135m	1.0896E+03	1.1969E-08	5.3393E+16	7.1274E+16
Xe-138	7.4729E+02	7.7881E-09	3.3986E+16	9.6981E+16
Cs-134	3.0525E+02	2.3593E-04	1.0603E+21	3.2674E+16
Cs-136	9.2935E+01	1.2680E-06	5.6149E+18	9.9571E+15
Cs-137	2.3699E+02	2.7246E-03	1.1977E+22	2.5367E+16
Ba-139	2.0474E+01	1.2517E-09	5.4230E+15	6.9107E+14
Ba-140	3.2868E+01	4.4896E-07	1.9312E+18	1.0248E+15
La-140	4.8681E-01	8.7583E-10	3.7674E+15	1.3668E+13
La-141	2.5924E-01	4.5839E-11	1.9578E+14	8.3061E+12
La-142	1.9352E-01	1.3519E-11	5.7332E+13	6.4761E+12
Ce-141	7.7782E-01	2.7298E-08	1.1659E+17	2.4245E+13
Ce-143	7.4269E-01	1.1184E-09	4.7098E+15	2.3224E+13
Ce-144	6.2330E-01	1.9542E-07	8.1727E+17	1.9428E+13
Pr-143	2.9714E-01	4.4126E-09	1.8583E+16	9.2589E+12
Nd-147	1.2077E-01	1.4929E-09	6.1160E+15	3.7659E+12
Np-239	8.7622E+00	3.7769E-08	9.5168E+16	2.7363E+14
Pu-238	1.9368E-03	1.1314E-07	2.8627E+17	6.0369E+10
Pu-239	1.9534E-04	3.1427E-06	7.9187E+18	6.0883E+09
Pu-240	3.4505E-04	1.5149E-07	3.8013E+17	1.0755E+10
Pu-241	7.6659E-02	7.7517E-07	1.9370E+18	2.3894E+12
Am-241	4.3367E-05	1.2659E-08	3.1632E+16	1.3516E+09
Cm-242	1.1912E-02	3.5985E-09	8.9548E+15	3.7129E+11
Cm-244	7.8774E-04	9.6240E-09	2.3753E+16	2.4553E+10

RB Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)		2.7008E+21	0.0000E+00
Elemental I (atoms)		3.1840E+18	0.0000E+00
Organic I (atoms)		2.9361E+17	0.0000E+00
Aerosols (kg)		2.9998E-03	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.4767E-08
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.3518E-08
Total I (Ci)			9.6069E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7704E+21
Elemental I (atoms)	0.0000E+00	3.4443E+18
Organic I (atoms)	0.0000E+00	3.0663E+17
Aerosols (kg)	0.0000E+00	3.1967E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19

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Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 1.0000	Ci	kg	Atoms	Bq
Kr-83m	2.1808E+01	1.0743E-09	7.7947E+15	8.0688E+11
Kr-85m	5.7278E+01	6.9601E-09	4.9311E+16	2.1193E+12
Kr-85	3.2354E+00	8.2542E-06	5.8480E+19	1.1971E+11
Kr-87	8.7910E+01	3.1035E-09	2.1483E+16	3.2527E+12
Kr-88	1.4736E+02	1.1752E-08	8.0422E+16	5.4523E+12
Rb-86	2.0117E-01	2.4723E-09	1.7312E+16	7.4432E+09
Rb-88	1.0446E+02	8.6537E-10	5.9220E+15	3.8652E+12
Sr-89	4.2326E-01	1.4569E-08	9.8581E+16	1.5661E+10
Sr-90	4.5301E-02	3.3211E-07	2.2222E+18	1.6762E+09
Sr-91	4.9053E-01	1.3532E-10	8.9551E+14	1.8150E+10
Sr-92	4.3484E-01	3.4595E-11	2.2645E+14	1.6089E+10
Y-90	5.6719E-04	1.0425E-12	6.9757E+12	2.0986E+07
Y-91	5.3249E-03	2.1713E-10	1.4369E+15	1.9702E+08
Y-92	2.2470E-02	2.3352E-12	1.5286E+13	8.3139E+08
Y-93	5.5853E-03	1.6741E-12	1.0840E+13	2.0666E+08
Zr-95	6.2635E-03	2.9156E-10	1.8482E+15	2.3175E+08
Zr-97	5.8370E-03	3.0533E-12	1.8956E+13	2.1597E+08
Nb-95	6.1797E-03	1.5804E-10	1.0018E+15	2.2865E+08
Mo-99	7.8389E-02	1.6344E-10	9.9421E+14	2.9004E+09
Tc-99m	6.9671E-02	1.3250E-11	8.0598E+13	2.5778E+09
Ru-103	6.8433E-02	2.1204E-09	1.2397E+16	2.5320E+09
Ru-105	4.2715E-02	6.3545E-12	3.6445E+13	1.5804E+09
Ru-106	2.8465E-02	8.5084E-09	4.8338E+16	1.0532E+09
Rh-105	4.5398E-02	5.3785E-11	3.0848E+14	1.6797E+09
Sb-127	7.8284E-02	2.9314E-10	1.3900E+15	2.8965E+09
Sb-129	2.1239E-01	3.7768E-11	1.7631E+14	7.8583E+09
Te-127	7.7839E-02	2.9494E-11	1.3986E+14	2.8800E+09
Te-127m	1.3326E-02	1.4128E-09	6.6991E+15	4.9306E+08
Te-129	2.1810E-01	1.0414E-11	4.8617E+13	8.0697E+09
Te-129m	4.3706E-02	1.4508E-09	6.7728E+15	1.6171E+09
Te-131m	1.6235E-01	2.0359E-10	9.3594E+14	6.0069E+09
Te-132	1.1790E+00	3.8835E-09	1.7717E+16	4.3623E+10
I-131	8.8228E+01	7.1166E-07	3.2715E+18	3.2644E+12
I-132	1.1151E+02	1.0803E-08	4.9284E+16	4.1257E+12
I-133	1.7984E+02	1.5875E-07	7.1882E+17	6.6540E+12
I-134	1.3640E+02	5.1131E-09	2.2979E+16	5.0468E+12
I-135	1.6316E+02	4.6458E-08	2.0724E+17	6.0368E+12
Xe-133	3.9545E+02	2.1126E-06	9.5658E+18	1.4632E+13
Xe-133m	1.2109E+01	2.7504E-08	1.2454E+17	4.4803E+11
Xe-135	1.7314E+02	6.7801E-08	3.0245E+17	6.4063E+12
Xe-135m	4.3558E+01	4.7848E-10	2.1344E+15	1.6116E+12
Xe-138	5.8120E+01	6.0571E-10	2.6432E+15	2.1504E+12
Cs-134	2.0134E+01	1.5562E-05	6.9936E+19	7.4496E+11
Cs-136	6.1356E+00	8.3715E-08	3.7069E+17	2.2702E+11
Cs-137	1.5632E+01	1.7971E-04	7.8996E+20	5.7837E+11
Ba-139	4.1783E-01	2.5545E-11	1.1067E+14	1.5460E+10
Ba-140	6.2170E-01	8.4921E-09	3.6529E+16	2.3003E+10
La-140	8.4325E-03	1.5171E-11	6.5258E+13	3.1200E+08
La-141	5.0330E-03	8.8996E-13	3.8010E+12	1.8622E+08
La-142	3.9170E-03	2.7362E-13	1.1604E+12	1.4493E+08
Ce-141	1.4708E-02	5.1620E-10	2.2047E+15	5.4421E+08
Ce-143	1.4087E-02	2.1213E-11	8.9334E+13	5.2123E+08
Ce-144	1.1786E-02	3.6953E-09	1.5454E+16	4.3608E+08
Pr-143	5.6172E-03	8.3418E-11	3.5130E+14	2.0784E+08
Nd-147	2.2846E-03	2.8240E-11	1.1569E+14	8.4529E+07
Np-239	1.6598E-01	7.1548E-10	1.8028E+15	6.1414E+09
Pu-238	3.6623E-05	2.1392E-09	5.4130E+15	1.3551E+06
Pu-239	3.6935E-06	5.9423E-08	1.4973E+17	1.3666E+05
Pu-240	6.5244E-06	2.8646E-09	7.1879E+15	2.4140E+05
Pu-241	1.4495E-03	1.4658E-08	3.6627E+16	5.3632E+07
Am-241	8.1998E-07	2.3935E-10	5.9810E+14	3.0339E+04
Cm-242	2.2524E-04	6.8045E-11	1.6933E+14	8.3340E+06

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Cm-244 1.4895E-05 1.8198E-10 4.4914E+14 5.5113E+05

Environment Transport Group Inventory:

	Total Release	Release Rate/s	
Time (h) = 1.0000			
Noble gases (atoms)	6.8636E+19	1.9066E+16	
Elemental I (atoms)	2.0689E+17	5.7471E+13	
Organic I (atoms)	1.0381E+16	2.8837E+12	
Aerosols (kg)	1.9670E-04	5.4640E-08	
Dose Effective (Ci) I-131 (Thyroid)		1.2369E+02	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.5622E+02	
Total I (Ci)		6.7913E+02	

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 1.0000		
Noble gases (atoms)	0.0000E+00	6.4282E+16
Elemental I (atoms)	1.9184E+14	1.9554E+12
Organic I (atoms)	9.6267E+12	9.7785E+10
Aerosols (kg)	1.8236E-07	1.8587E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 1.0000		
Noble gases (atoms)	0.0000E+00	1.1904E+16
Elemental I (atoms)	0.0000E+00	3.5891E+13
Organic I (atoms)	0.0000E+00	1.8009E+12
Aerosols (kg)	0.0000E+00	3.4117E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 1.0000		
Noble gases (atoms)	5.1043E+15	0.0000E+00
Elemental I (atoms)	3.6895E+12	0.0000E+00
Organic I (atoms)	1.4585E+11	0.0000E+00
Aerosols (kg)	3.5324E-09	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 1.0000		
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 1.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 1.0000	Ci	kg	Atoms	Decay
Kr-83m	2.0278E-02	9.9895E-13	7.2480E+12	8.6230E+11
Kr-85m	5.6783E-02	6.8999E-12	4.8885E+13	2.2812E+12
Kr-85	3.3506E-03	8.5482E-09	6.0563E+16	1.2945E+11
Kr-87	7.7537E-02	2.7374E-12	1.8948E+13	3.4541E+12
Kr-88	1.4235E-01	1.1352E-11	7.7688E+13	5.8521E+12
Rb-86	3.1642E-05	3.8887E-13	2.7231E+12	1.9332E+09
Rb-88	6.8188E-02	5.6486E-13	3.8655E+12	2.6518E+12
Sr-89	7.3294E-05	2.5228E-12	1.7071E+13	1.5690E+09
Sr-90	7.8452E-06	5.7513E-11	3.8483E+14	1.6793E+08
Sr-91	8.4030E-05	2.3181E-14	1.5340E+11	1.8143E+09
Sr-92	7.2467E-05	5.7653E-15	3.7739E+10	1.5992E+09
Y-90	1.1052E-07	2.0313E-16	1.3592E+09	2.2120E+06
Y-91	9.2466E-07	3.7705E-14	2.4952E+11	1.9762E+07
Y-92	5.8932E-06	6.1245E-16	4.0090E+09	1.0202E+08
Y-93	9.5741E-07	2.8696E-16	1.8582E+09	2.0661E+07
Zr-95	1.0846E-06	5.0488E-14	3.2005E+11	2.3218E+07

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Zr-97	1.0047E-06	5.2555E-16	3.2628E+09	2.1610E+07
Nb-95	1.0702E-06	2.7368E-14	1.7349E+11	2.2908E+07
Mo-99	1.3554E-05	2.8260E-14	1.7191E+11	2.9049E+08
Tc-99m	1.2063E-05	2.2942E-15	1.3955E+10	2.5811E+08
Ru-103	1.1850E-05	3.6716E-13	2.1467E+12	2.5367E+08
Ru-105	7.2265E-06	1.0750E-15	6.1658E+09	1.5758E+08
Ru-106	4.9295E-06	1.4734E-12	8.3710E+12	1.0552E+08
Rh-105	7.8604E-06	9.3126E-15	5.3411E+10	1.6826E+08
Sb-127	1.3542E-05	5.0709E-14	2.4045E+11	2.9012E+08
Sb-129	3.5908E-05	6.3854E-15	2.9809E+10	7.8341E+08
Te-127	1.3479E-05	5.1073E-15	2.4218E+10	2.8843E+08
Te-127m	2.3078E-06	2.4466E-13	1.1601E+12	4.9398E+07
Te-129	3.7370E-05	1.7844E-15	8.3304E+09	8.0466E+08
Te-129m	7.5689E-06	2.5125E-13	1.1729E+12	1.6201E+08
Te-131m	2.8018E-05	3.5137E-14	1.6153E+11	6.0138E+08
Te-132	2.0391E-04	6.7165E-13	3.0642E+12	4.3693E+09
I-131	1.3880E-02	1.1196E-10	5.1467E+14	8.4226E+11
I-132	1.5458E-02	1.4975E-12	6.8321E+12	1.0183E+12
I-133	2.7935E-02	2.4660E-11	1.1166E+14	1.7107E+12
I-134	1.5027E-02	5.6330E-13	2.5315E+12	1.1775E+12
I-135	2.4577E-02	6.9983E-12	3.1219E+13	1.5387E+12
Xe-133	4.0899E-01	2.1850E-09	9.8935E+15	1.5813E+13
Xe-133m	1.2500E-02	2.8393E-11	1.2856E+14	4.8381E+11
Xe-135	1.7708E-01	6.9340E-11	3.0932E+14	6.8339E+12
Xe-135m	2.3743E-02	2.6081E-13	1.1635E+12	1.3413E+12
Xe-138	1.9661E-02	2.0490E-13	8.9418E+11	1.9582E+12
Cs-134	3.1689E-03	2.4493E-09	1.1007E+16	1.9352E+11
Cs-136	9.6479E-04	1.3164E-11	5.8290E+13	5.8956E+10
Cs-137	2.4603E-03	2.8285E-08	1.2433E+17	1.5024E+11
Ba-139	6.7044E-05	4.0988E-15	1.7758E+10	1.5246E+09
Ba-140	1.0763E-04	1.4701E-12	6.3238E+12	2.3044E+09
La-140	1.7280E-06	3.1088E-15	1.3373E+10	3.3643E+07
La-141	8.4889E-07	1.5010E-16	6.4110E+08	1.8556E+07
La-142	6.3369E-07	4.4268E-17	1.8774E+08	1.4317E+07
Ce-141	2.5469E-06	8.9387E-14	3.8177E+11	5.4521E+07
Ce-143	2.4320E-06	3.6622E-15	1.5422E+10	5.2187E+07
Ce-144	2.0410E-06	6.3992E-13	2.6762E+12	4.3689E+07
Pr-143	9.7323E-07	1.4453E-14	6.0865E+10	2.0826E+07
Nd-147	3.9548E-07	4.8886E-15	2.0027E+10	8.4680E+06
Np-239	2.8692E-05	1.2368E-13	3.1164E+11	6.1506E+08
Pu-238	6.3423E-09	3.7047E-13	9.3740E+11	1.3576E+05
Pu-239	6.3965E-10	1.0291E-11	2.5930E+13	1.3692E+04
Pu-240	1.1299E-09	4.9608E-13	1.2448E+12	2.4185E+04
Pu-241	2.5102E-07	2.5384E-12	6.3429E+12	5.3732E+06
Am-241	1.4201E-10	4.1452E-14	1.0358E+11	3.0396E+03
Cm-242	3.9006E-08	1.1783E-14	2.9323E+10	8.3495E+05
Cm-244	2.5795E-09	3.1515E-14	7.7781E+10	5.5215E+04

CR Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)		7.1049E+16	0.0000E+00
Elemental I (atoms)		3.2312E+13	0.0000E+00
Organic I (atoms)		1.6799E+12	0.0000E+00
Aerosols (kg)		3.0966E-08	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.7934E-12
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.2435E-12
Total I (Ci)			9.6877E-02

	Deposition	Recirculating
Time (h) =	1.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5409E+12
Organic I (atoms)	0.0000E+00	6.0915E+10
Aerosols (kg)	0.0000E+00	1.4753E-09

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.4282E+16
Elemental I (atoms)	1.9184E+14	1.9554E+12
Organic I (atoms)	9.6267E+12	9.7785E+10
Aerosols (kg)	1.8236E-07	1.8587E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported

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Noble gases (atoms)	0.0000E+00	1.1904E+16
Elemental I (atoms)	0.0000E+00	3.5891E+13
Organic I (atoms)	0.0000E+00	1.8009E+12
Aerosols (kg)	0.0000E+00	3.4117E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	5.1043E+15	0.0000E+00
Elemental I (atoms)	3.6895E+12	0.0000E+00
Organic I (atoms)	1.4585E+11	0.0000E+00
Aerosols (kg)	3.5324E-09	0.0000E+00

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3329E-02	3.2957E-02	3.4814E-02
Accumulated dose (rem)	6.9966E-02	5.6672E-02	3.1220E-01

LPZ Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5989E-02	1.5810E-02	1.6701E-02
Accumulated dose (rem)	2.0976E-02	7.8282E-01	5.4463E-02

CR Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6382E-03	2.0665E+00	9.2093E-02
Accumulated dose (rem)	3.5866E-03	3.1830E+00	1.4061E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	7.8116E+06	3.8482E-04	2.7921E+21	1.0735E+21
Kr-85m	2.7201E+07	3.3053E-03	2.3417E+22	3.2910E+21
Kr-85	1.8737E+06	4.7801E+00	3.3867E+25	2.0805E+20
Kr-87	2.5139E+07	8.8751E-04	6.1433E+21	3.8424E+21
Kr-88	6.2362E+07	4.9734E-03	3.4034E+22	7.9421E+21
Rb-86	1.7091E+03	2.1004E-05	1.4708E+20	6.0537E+17
Rb-88	1.6975E+07	1.4062E-04	9.6228E+20	4.9798E+20
Sr-89	9.4100E+04	3.2390E-03	2.1917E+22	1.8236E+19
Sr-90	1.0078E+04	7.3882E-02	4.9436E+23	1.9523E+18
Sr-91	1.0035E+05	2.7683E-05	1.8320E+20	2.0510E+19
Sr-92	7.2083E+04	5.7348E-06	3.7539E+19	1.6920E+19
Y-90	1.1680E+02	2.1468E-07	1.4365E+18	2.0674E+16
Y-91	1.1820E+03	4.8199E-05	3.1897E+20	2.2866E+17
Y-92	2.7670E+03	2.8756E-07	1.8823E+18	3.0413E+17
Y-93	1.1483E+03	3.4419E-07	2.2288E+18	2.3394E+17
Zr-95	1.3927E+03	6.4828E-05	4.1095E+20	2.6988E+17
Zr-97	1.2388E+03	6.4800E-07	4.0230E+18	2.4728E+17
Nb-95	1.3748E+03	3.5158E-05	2.2287E+20	2.6631E+17
Mo-99	1.7230E+04	3.5924E-05	2.1853E+20	3.3634E+18
Tc-99m	1.5478E+04	2.9437E-06	1.7906E+19	2.9889E+18
Ru-103	1.5211E+04	4.7131E-04	2.7556E+21	2.9482E+18
Ru-105	7.9414E+03	1.1814E-06	6.7758E+18	1.7273E+18
Ru-106	6.3320E+03	1.8927E-03	1.0753E+22	1.2267E+18
Rh-105	1.0069E+04	1.1929E-05	6.8416E+19	1.9534E+18
Sb-127	1.7266E+04	6.4654E-05	3.0658E+20	3.3631E+18
Sb-129	3.9290E+04	6.9868E-06	3.2617E+19	8.5738E+18
Te-127	1.7305E+04	6.5573E-06	3.1094E+19	3.3449E+18
Te-127m	2.9646E+03	3.1430E-04	1.4903E+21	5.7429E+17
Te-129	4.4428E+04	2.1214E-06	9.9036E+18	8.9552E+18
Te-129m	9.7228E+03	3.2275E-04	1.5067E+21	1.8835E+18
Te-131m	3.5171E+04	4.4107E-05	2.0276E+20	6.9291E+18
Te-132	2.5963E+05	8.5520E-04	3.9016E+21	5.0621E+19
I-131	9.7334E+05	7.8511E-03	3.6092E+22	3.0443E+20
I-132	1.3689E+06	1.3262E-04	6.0503E+20	4.3110E+20
I-133	1.8998E+06	1.6770E-03	7.5935E+21	6.1466E+20
I-134	4.7919E+05	1.7963E-05	8.0728E+19	3.9910E+20
I-135	1.5560E+06	4.4307E-04	1.9765E+21	5.4612E+20
Xe-133	2.2820E+08	1.2191E+00	5.5201E+24	2.5381E+22
Xe-133m	6.9496E+06	1.5785E-02	7.1475E+22	7.7489E+20
Xe-135	1.0028E+08	3.9267E-02	1.7516E+23	1.1188E+22
Xe-135m	6.6923E+06	7.3516E-05	3.2794E+20	1.3681E+21
Xe-138	5.8777E+05	6.1257E-06	2.6732E+19	7.0533E+20
Cs-134	1.7142E+05	1.3249E-01	5.9544E+23	6.0613E+19

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Cs-136	5.2077E+04	7.1055E-04	3.1464E+21	1.8461E+19
Cs-137	1.3310E+05	1.5302E+00	6.7261E+24	4.7058E+19
Ba-139	5.2087E+04	3.1844E-06	1.3796E+19	1.4880E+19
Ba-140	1.3795E+05	1.8843E-03	8.1053E+21	2.6767E+19
La-140	1.6715E+03	3.0073E-06	1.2936E+19	2.8129E+17
La-141	9.1417E+02	1.6165E-07	6.9040E+17	2.0191E+17
La-142	5.1927E+02	3.6274E-08	1.5384E+17	1.4206E+17
Ce-141	3.2715E+03	1.1482E-04	4.9039E+20	6.3386E+17
Ce-143	3.0592E+03	4.6067E-06	1.9400E+19	6.0178E+17
Ce-144	2.6217E+03	8.2197E-04	3.4375E+21	5.0790E+17
Pr-143	1.2493E+03	1.8552E-05	7.8127E+19	2.4192E+17
Nd-147	5.0671E+02	6.2635E-06	2.5660E+19	9.8346E+16
Np-239	3.6409E+04	1.5694E-04	3.9545E+20	7.1165E+18
Pu-238	8.1475E+00	4.7592E-04	1.2042E+21	1.5783E+15
Pu-239	8.2182E-01	1.3222E-02	3.3315E+22	1.5918E+14
Pu-240	1.4515E+00	6.3727E-04	1.5991E+21	2.8117E+14
Pu-241	3.2247E+02	3.2608E-03	8.1481E+21	6.2468E+16
Am-241	1.8244E-01	5.3255E-05	1.3307E+20	3.5338E+13
Cm-242	5.0099E+01	1.5135E-05	3.7662E+19	9.7062E+15
Cm-244	3.3137E+00	4.0484E-05	9.9918E+19	6.4192E+14

DW Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	3.9700E+25	0.0000E+00	
Elemental I (atoms)	2.1372E+21	7.5051E+22	
Organic I (atoms)	2.3472E+21	0.0000E+00	
Aerosols (kg)	1.7747E+00	6.3338E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.5492E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9239E-04
Total I (Ci)			6.2772E+06

DW to WW Transport Group Inventory:

Time (h) = 2.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 2.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7398E+22
Elemental I (atoms)	0.0000E+00	4.6054E+18
Organic I (atoms)	0.0000E+00	1.2275E+18
Aerosols (kg)	0.0000E+00	4.1530E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5527E+21
Elemental I (atoms)	0.0000E+00	2.5600E+17
Organic I (atoms)	0.0000E+00	1.0628E+17
Aerosols (kg)	0.0000E+00	2.2357E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2103E+21
Elemental I (atoms)	0.0000E+00	6.9416E+17
Organic I (atoms)	0.0000E+00	2.8820E+17
Aerosols (kg)	0.0000E+00	6.0623E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	4.2103E+21
Elemental I (atoms)	0.0000E+00	6.9416E+17
Organic I (atoms)	0.0000E+00	2.8820E+17
Aerosols (kg)	0.0000E+00	6.0623E-04

RB Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	3.1814E+03	1.5673E-07	1.1371E+18	3.1249E+17
Kr-85m	1.1078E+04	1.3461E-06	9.5371E+18	9.7850E+17
Kr-85	7.6308E+02	1.9468E-03	1.3793E+22	6.2767E+16
Kr-87	1.0238E+04	3.6145E-07	2.5020E+18	1.0995E+18
Kr-88	2.5398E+04	2.0255E-06	1.3861E+19	2.3412E+18
Rb-86	3.5171E+00	4.3225E-08	3.0268E+17	7.6758E+14
Rb-88	2.0695E+04	1.7144E-07	1.1732E+18	1.3532E+18
Sr-89	6.6932E+01	2.3039E-06	1.5589E+19	7.0101E+15
Sr-90	7.1683E+00	5.2551E-05	3.5163E+20	7.5056E+14
Sr-91	7.1378E+01	1.9690E-08	1.3031E+17	7.7514E+15
Sr-92	5.1271E+01	4.0791E-09	2.6701E+16	6.1183E+15
Y-90	1.3439E-01	2.4702E-10	1.6529E+15	1.1542E+13
Y-91	8.5101E-01	3.4701E-08	2.2964E+17	8.8631E+13
Y-92	8.9361E+00	9.2868E-10	6.0790E+15	6.4459E+14
Y-93	8.1678E-01	2.4482E-10	1.5853E+15	8.8507E+13
Zr-95	9.9060E-01	4.6111E-08	2.9230E+17	1.0374E+14
Zr-97	8.8111E-01	4.6091E-10	2.8615E+15	9.4161E+13
Nb-95	9.7786E-01	2.5007E-08	1.5852E+17	1.0238E+14
Mo-99	1.2255E+01	2.5552E-08	1.5543E+17	1.2899E+15
Tc-99m	1.1010E+01	2.0938E-09	1.2736E+16	1.1476E+15
Ru-103	1.0819E+01	3.3524E-07	1.9600E+18	1.1333E+15
Ru-105	5.6486E+00	8.4032E-10	4.8195E+15	6.3997E+14
Ru-106	4.5039E+00	1.3462E-06	7.6482E+18	4.7160E+14
Rh-105	7.1616E+00	8.4847E-09	4.8663E+16	7.5049E+14
Sb-127	1.2281E+01	4.5988E-08	2.1807E+17	1.2907E+15
Sb-129	2.7946E+01	4.9696E-09	2.3200E+16	3.1733E+15
Te-127	1.2309E+01	4.6641E-09	2.2116E+16	1.2849E+15
Te-127m	2.1087E+00	2.2355E-07	1.0601E+18	2.2079E+14
Te-129	3.1601E+01	1.5089E-09	7.0442E+15	3.3673E+15
Te-129m	6.9157E+00	2.2956E-07	1.0717E+18	7.2410E+14
Te-131m	2.5016E+01	3.1372E-08	1.4422E+17	2.6496E+15
Te-132	1.8467E+02	6.0829E-07	2.7751E+18	1.9421E+16
I-131	1.6749E+03	1.3510E-05	6.2107E+19	3.4838E+17
I-132	1.6402E+03	1.5890E-07	7.2495E+17	3.9822E+17
I-133	3.2714E+03	2.8879E-06	1.3076E+19	6.9858E+17
I-134	8.2518E+02	3.0933E-08	1.3902E+17	3.7448E+17
I-135	2.6795E+03	7.6298E-07	3.4035E+18	6.0991E+17
Xe-133	9.2835E+04	4.9596E-04	2.2457E+21	7.6492E+18
Xe-133m	2.8232E+03	6.4126E-06	2.9036E+19	2.3321E+17
Xe-135	3.9663E+04	1.5532E-05	6.9284E+19	3.3067E+18
Xe-135m	1.6591E+03	1.8225E-08	8.1301E+16	2.8442E+17
Xe-138	2.3938E+02	2.4948E-09	1.0887E+16	1.7157E+17
Cs-134	3.5277E+02	2.7266E-04	1.2254E+21	7.6886E+16
Cs-136	1.0717E+02	1.4622E-06	6.4749E+18	2.3403E+16
Cs-137	2.7390E+02	3.1489E-03	1.3842E+22	5.9694E+16
Ba-139	3.7049E+01	2.2650E-09	9.8131E+15	5.0551E+15
Ba-140	9.8119E+01	1.3403E-06	5.7652E+18	1.0285E+16
La-140	2.3029E+00	4.1432E-09	1.7822E+16	1.8627E+14
La-141	6.5023E-01	1.1498E-10	4.9107E+14	7.4444E+13
La-142	3.6935E-01	2.5801E-11	1.0942E+14	4.8928E+13
Ce-141	2.3264E+00	8.1645E-08	3.4871E+17	2.4363E+14
Ce-143	2.1760E+00	3.2767E-09	1.3799E+16	2.3023E+14
Ce-144	1.8648E+00	5.8466E-07	2.4451E+18	1.9526E+14
Pr-143	8.9047E-01	1.3224E-08	5.5689E+16	9.3137E+13
Nd-147	3.6041E-01	4.4551E-09	1.8251E+16	3.7786E+13
Np-239	2.5897E+01	1.1163E-07	2.8128E+17	2.7282E+15
Pu-238	5.7952E-03	3.3851E-07	8.5654E+17	6.0678E+11
Pu-239	5.8455E-04	9.4045E-06	2.3697E+19	6.1201E+10
Pu-240	1.0324E-03	4.5328E-07	1.1374E+18	1.0810E+11
Pu-241	2.2937E-01	2.3193E-06	5.7956E+18	2.4016E+13
Am-241	1.2978E-04	3.7884E-08	9.4666E+16	1.3587E+10
Cm-242	3.5634E-02	1.0765E-08	2.6788E+16	3.7314E+12
Cm-244	2.3570E-03	2.8796E-08	7.1070E+16	2.4679E+11

RB Transport Group Inventory:

Time (h) = 2.0000	Atmosphere	Sump
Noble gases (atoms)	1.6164E+22	0.0000E+00
Elemental I (atoms)	3.8051E+18	0.0000E+00
Organic I (atoms)	1.1129E+18	0.0000E+00
Aerosols (kg)	3.5121E-03	0.0000E+00

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Dose Effective (Ci/cc) I-131 (Thyroid)	4.2007E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)	5.1797E-08
Total I (Ci)	1.0091E+04

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7398E+22
Elemental I (atoms)	0.0000E+00	4.6054E+18
Organic I (atoms)	0.0000E+00	1.2275E+18
Aerosols (kg)	0.0000E+00	4.1530E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1512E+21
Elemental I (atoms)	4.7237E+17	4.7714E+15
Organic I (atoms)	8.8441E+16	8.9335E+14
Aerosols (kg)	4.3943E-04	4.4387E-06

Environment Integral Nuclide Release:

Time (h) = 2.0000	Ci	kg	Atoms	Bq
Kr-83m	2.7804E+02	1.3697E-08	9.9381E+16	1.0288E+13
Kr-85m	8.8636E+02	1.0770E-07	7.6307E+17	3.2795E+13
Kr-85	5.7555E+01	1.4683E-04	1.0403E+21	2.1295E+12
Kr-87	9.6396E+02	3.4031E-08	2.3556E+17	3.5666E+13
Kr-88	2.1054E+03	1.6791E-07	1.1491E+18	7.7901E+13
Rb-86	2.0564E-01	2.5273E-09	1.7698E+16	7.6087E+09
Rb-88	5.8092E+02	4.8123E-09	3.2932E+16	2.1494E+13
Sr-89	4.8473E-01	1.6685E-08	1.1290E+17	1.7935E+10
Sr-90	5.1883E-02	3.8035E-07	2.5450E+18	1.9197E+09
Sr-91	5.5786E-01	1.5389E-10	1.0184E+15	2.0641E+10
Sr-92	4.8670E-01	3.8721E-11	2.5346E+14	1.8008E+10
Y-90	6.7950E-04	1.2489E-12	8.3570E+12	2.5142E+07
Y-91	6.1042E-03	2.4891E-10	1.6472E+15	2.2586E+08
Y-92	2.9644E-02	3.0808E-12	2.0166E+13	1.0968E+09
Y-93	6.3546E-03	1.9047E-12	1.2333E+13	2.3512E+08
Zr-95	7.1731E-03	3.3390E-10	2.1166E+15	2.6540E+08
Zr-97	6.6583E-03	3.4830E-12	2.1624E+13	2.4636E+08
Nb-95	7.0775E-03	1.8100E-10	1.1473E+15	2.6187E+08
Mo-99	8.9684E-02	1.8699E-10	1.1375E+15	3.3183E+09
Tc-99m	7.9784E-02	1.5173E-11	9.2297E+13	2.9520E+09
Ru-103	7.8369E-02	2.4282E-09	1.4197E+16	2.8996E+09
Ru-105	4.8213E-02	7.1724E-12	4.1136E+13	1.7839E+09
Ru-106	3.2601E-02	9.7444E-09	5.5360E+16	1.2062E+09
Rh-105	5.1981E-02	6.1585E-11	3.5321E+14	1.9233E+09
Sb-127	8.9590E-02	3.3548E-10	1.5908E+15	3.3148E+09
Sb-129	2.3963E-01	4.2614E-11	1.9893E+14	8.8664E+09
Te-127	8.9142E-02	3.3777E-11	1.6017E+14	3.2983E+09
Te-127m	1.5262E-02	1.6180E-09	7.6723E+15	5.6469E+08
Te-129	2.4803E-01	1.1843E-11	5.5289E+13	9.1770E+09
Te-129m	5.0055E-02	1.6616E-09	7.7567E+15	1.8520E+09
Te-131m	1.8551E-01	2.3264E-10	1.0695E+15	6.8639E+09
Te-132	1.3491E+00	4.4438E-09	2.0274E+16	4.9917E+10
I-131	9.0302E+01	7.2839E-07	3.3485E+18	3.3412E+12
I-132	1.1366E+02	1.1011E-08	5.0235E+16	4.2054E+12
I-133	1.8394E+02	1.6238E-07	7.3523E+17	6.8059E+12

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I-134	1.3787E+02	5.1683E-09	2.3227E+16	5.1014E+12
I-135	1.6663E+02	4.7447E-08	2.1165E+17	6.1651E+12
Xe-133	7.0111E+03	3.7456E-05	1.6960E+20	2.5941E+14
Xe-133m	2.1362E+02	4.8523E-07	2.1971E+18	7.9041E+12
Xe-135	3.0161E+03	1.1811E-06	5.2686E+18	1.1160E+14
Xe-135m	2.1227E+02	2.3318E-09	1.0402E+16	7.8541E+12
Xe-138	1.1785E+02	1.2283E-09	5.3600E+15	4.3606E+12
Cs-134	2.0583E+01	1.5908E-05	7.1494E+19	7.6156E+11
Cs-136	6.2719E+00	8.5576E-08	3.7893E+17	2.3206E+11
Cs-137	1.5980E+01	1.8371E-04	8.0756E+20	5.9125E+11
Ba-139	4.5917E-01	2.8072E-11	1.2162E+14	1.6989E+10
Ba-140	7.1185E-01	9.7236E-09	4.1826E+16	2.6339E+10
La-140	1.0307E-02	1.8544E-11	7.9768E+13	3.8137E+08
La-141	5.6709E-03	1.0027E-12	4.2827E+12	2.0982E+08
La-142	4.3203E-03	3.0180E-13	1.2799E+12	1.5985E+08
Ce-141	1.6845E-02	5.9117E-10	2.5249E+15	6.2325E+08
Ce-143	1.6101E-02	2.4245E-11	1.0210E+14	5.9572E+08
Ce-144	1.3498E-02	4.2320E-09	1.7699E+16	4.9943E+08
Pr-143	6.4344E-03	9.5552E-11	4.0240E+14	2.3807E+08
Nd-147	2.6158E-03	3.2334E-11	1.3246E+14	9.6784E+07
Np-239	1.8987E-01	8.1843E-10	2.0622E+15	7.0251E+09
Pu-238	4.1944E-05	2.4500E-09	6.1993E+15	1.5519E+06
Pu-239	4.2302E-06	6.8057E-08	1.7148E+17	1.5652E+05
Pu-240	7.4722E-06	3.2807E-09	8.2321E+15	2.7647E+05
Pu-241	1.6601E-03	1.6787E-08	4.1947E+16	6.1424E+07
Am-241	9.3913E-07	2.7413E-10	6.8500E+14	3.4748E+04
Cm-242	2.5796E-04	7.7928E-11	1.9392E+14	9.5445E+06
Cm-244	1.7059E-05	2.0842E-10	5.1439E+14	6.3119E+05

Environment Transport Group Inventory:

	Total Release	Release Rate/s
Time (h) = 2.0000		
Noble gases (atoms)	1.2196E+21	1.6939E+17
Elemental I (atoms)	2.1166E+17	2.9397E+13
Organic I (atoms)	1.1273E+16	1.5657E+12
Aerosols (kg)	2.0115E-04	2.7937E-08
Dose Effective (Ci) I-131 (Thyroid)		1.2656E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.5978E+02
Total I (Ci)		6.9240E+02

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	0.0000E+00	1.2318E+17
Elemental I (atoms)	1.9209E+14	1.9579E+12
Organic I (atoms)	9.6720E+12	9.8242E+10
Aerosols (kg)	1.8258E-07	1.8609E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	0.0000E+00	2.2811E+16
Elemental I (atoms)	0.0000E+00	3.5937E+13
Organic I (atoms)	0.0000E+00	1.8094E+12
Aerosols (kg)	0.0000E+00	3.4159E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	2.6945E+16	0.0000E+00
Elemental I (atoms)	1.0488E+13	0.0000E+00
Organic I (atoms)	4.9987E+11	0.0000E+00
Aerosols (kg)	1.0098E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

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	Pathway	Transported
Time (h) = 2.0000	Filtered	
Noble gases (atoms)	0.0000E+00	1.1512E+21
Elemental I (atoms)	4.7237E+17	4.7714E+15
Organic I (atoms)	8.8441E+16	8.9335E+14
Aerosols (kg)	4.3943E-04	4.4387E-06

CR Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	2.3404E-02	1.1530E-12	8.3655E+12	3.6439E+12
Kr-85m	8.1496E-02	9.9029E-12	7.0161E+13	1.1016E+13
Kr-85	5.6137E-03	1.4322E-08	1.0147E+17	6.8989E+11
Kr-87	7.5320E-02	2.6591E-12	1.8406E+13	1.3197E+13
Kr-88	1.8684E-01	1.4901E-11	1.0197E+14	2.6734E+13
Rb-86	2.2141E-05	2.7211E-13	1.9054E+12	5.4146E+09
Rb-88	1.6034E-01	1.3283E-12	9.0898E+12	1.5999E+13
Sr-89	5.1780E-05	1.7823E-12	1.2060E+13	9.6648E+09
Sr-90	5.5456E-06	4.0655E-11	2.7203E+14	1.0347E+09
Sr-91	5.5219E-05	1.5233E-14	1.0081E+11	1.0787E+10
Sr-92	3.9665E-05	3.1556E-15	2.0656E+10	8.7155E+09
Y-90	1.3683E-07	2.5150E-16	1.6828E+09	1.8293E+07
Y-91	6.6513E-07	2.7122E-14	1.7948E+11	1.2269E+08
Y-92	1.1477E-05	1.1928E-15	7.8077E+09	1.2708E+09
Y-93	6.3188E-07	1.8940E-16	1.2264E+09	1.2309E+08
Zr-95	7.6635E-07	3.5673E-14	2.2613E+11	1.4303E+08
Zr-97	6.8164E-07	3.5657E-16	2.2137E+09	1.3050E+08
Nb-95	7.5650E-07	1.9346E-14	1.2264E+11	1.4115E+08
Mo-99	9.4810E-06	1.9768E-14	1.2025E+11	1.7806E+09
Tc-99m	8.5173E-06	1.6198E-15	9.8532E+09	1.5828E+09
Ru-103	8.3701E-06	2.5935E-13	1.5163E+12	1.5625E+09
Ru-105	4.3699E-06	6.5009E-16	3.7285E+09	9.0010E+08
Ru-106	3.4843E-06	1.0415E-12	5.9168E+12	6.5015E+08
Rh-105	5.5404E-06	6.5640E-15	3.7647E+10	1.0350E+09
Sb-127	9.5009E-06	3.5577E-14	1.6870E+11	1.7810E+09
Sb-129	2.1620E-05	3.8446E-15	1.7948E+10	4.4656E+09
Te-127	9.5226E-06	3.6083E-15	1.7110E+10	1.7719E+09
Te-127m	1.6313E-06	1.7295E-13	8.2008E+11	3.0437E+08
Te-129	2.4447E-05	1.1674E-15	5.4496E+09	4.6941E+09
Te-129m	5.3501E-06	1.7760E-13	8.2908E+11	9.9824E+08
Te-131m	1.9353E-05	2.4270E-14	1.1157E+11	3.6636E+09
Te-132	1.4287E-04	4.7059E-13	2.1469E+12	2.6805E+10
I-131	9.6933E-03	7.8188E-11	3.5943E+14	2.3680E+12
I-132	8.0544E-03	7.8031E-13	3.5599E+12	2.5035E+12
I-133	1.8938E-02	1.6718E-11	7.5696E+13	4.7390E+12
I-134	4.7769E-03	1.7906E-13	8.0474E+11	2.3474E+12
I-135	1.5511E-02	4.4168E-12	1.9703E+13	4.1158E+12
Xe-133	6.8221E-01	3.6446E-09	1.6503E+16	8.4053E+13
Xe-133m	2.0717E-02	4.7057E-11	2.1307E+14	2.5620E+12
Xe-135	2.8318E-01	1.1089E-10	4.9465E+14	3.5677E+13
Xe-135m	7.8471E-03	8.6200E-14	3.8453E+11	2.9955E+12
Xe-138	1.7610E-03	1.8353E-14	8.0091E+10	2.9012E+12
Cs-134	2.2208E-03	1.7164E-09	7.7139E+15	5.4244E+11
Cs-136	6.7466E-04	9.2052E-12	4.0761E+13	1.6508E+11
Cs-137	1.7242E-03	1.9823E-08	8.7136E+16	4.2114E+11
Ba-139	2.8662E-05	1.7523E-15	7.5916E+09	7.4295E+09
Ba-140	7.5907E-05	1.0369E-12	4.4601E+12	1.4183E+10
La-140	2.4938E-06	4.4865E-15	1.9299E+10	3.0853E+08
La-141	5.0304E-07	8.8949E-17	3.7990E+08	1.0497E+08
La-142	2.8573E-07	1.9960E-17	8.4651E+07	7.1431E+07
Ce-141	1.7993E-06	6.3147E-14	2.6970E+11	3.3584E+08
Ce-143	1.6834E-06	2.5349E-15	1.0675E+10	3.1825E+08
Ce-144	1.4426E-06	4.5230E-13	1.8916E+12	2.6919E+08
Pr-143	6.9011E-07	1.0248E-14	4.3159E+10	1.2849E+08
Nd-147	2.7882E-07	3.4466E-15	1.4120E+10	5.2110E+07
Np-239	2.0035E-05	8.6360E-14	2.1760E+11	3.7669E+09
Pu-238	4.4833E-09	2.6188E-13	6.6263E+11	8.3650E+05
Pu-239	4.5222E-10	7.2755E-12	1.8332E+13	8.4369E+04
Pu-240	7.9869E-10	3.5067E-13	8.7990E+11	1.4902E+05
Pu-241	1.7744E-07	1.7943E-12	4.4836E+12	3.3108E+07
Am-241	1.0042E-10	2.9311E-14	7.3243E+10	1.8732E+04
Cm-242	2.7568E-08	8.3280E-15	2.0724E+10	5.1442E+06
Cm-244	1.8234E-09	2.2277E-14	5.4981E+10	3.4022E+05

CR Transport Group Inventory:

Time (h) = 2.0000	Atmosphere	Sump
Noble gases (atoms)	1.1888E+17	0.0000E+00

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Elemental I (atoms)	2.2248E+13	0.0000E+00
Organic I (atoms)	1.1624E+12	0.0000E+00
Aerosols (kg)	2.1702E-08	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2372E-12
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.5217E-12
Total I (Ci)		5.6974E-02

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 2.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.3805E+12
Organic I (atoms)	0.0000E+00	2.0877E+11
Aerosols (kg)	0.0000E+00	4.2176E-09

CR Filtered Intake Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	0.0000E+00	1.2318E+17
Elemental I (atoms)	1.9209E+14	1.9579E+12
Organic I (atoms)	9.6720E+12	9.8242E+10
Aerosols (kg)	1.8258E-07	1.8609E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	0.0000E+00	2.2811E+16
Elemental I (atoms)	0.0000E+00	3.5937E+13
Organic I (atoms)	0.0000E+00	1.8094E+12
Aerosols (kg)	0.0000E+00	3.4159E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.0000		
Noble gases (atoms)	2.6945E+16	0.0000E+00
Elemental I (atoms)	1.0488E+13	0.0000E+00
Organic I (atoms)	4.9987E+11	0.0000E+00
Aerosols (kg)	1.0098E-08	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.2500			
Delta dose (rem)	1.5680E-02	9.0279E-03	1.6099E-02
Accumulated dose (rem)	8.5646E-02	5.6762E+00	3.2830E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.2500			
Delta dose (rem)	7.5223E-03	4.3310E-03	7.7230E-03
Accumulated dose (rem)	2.8499E-02	7.8715E-01	6.2186E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.2500			
Delta dose (rem)	7.5884E-04	4.0752E-01	1.8599E-02
Accumulated dose (rem)	4.3455E-03	3.5905E+00	1.5921E-01

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 2.2500				
Kr-83m	4.3842E+06	2.1598E-04	1.5670E+21	1.2265E+21
Kr-85m	1.6121E+07	1.9589E-03	1.3879E+22	3.8384E+21
Kr-85	1.1543E+06	2.9448E+00	2.0863E+25	2.4649E+20
Kr-87	1.3514E+07	4.7709E-04	3.3024E+21	4.3246E+21
Kr-88	3.6144E+07	2.8824E-03	1.9725E+22	9.1832E+21
Rb-86	5.3336E+01	6.5549E-07	4.5901E+18	6.1079E+17
Rb-88	9.6481E+06	7.9923E-05	5.4694E+20	6.0987E+20
Sr-89	2.9374E+03	1.0111E-04	6.8413E+20	1.8535E+19
Sr-90	3.1463E+02	2.3066E-03	1.5434E+22	1.9843E+18
Sr-91	3.0763E+03	8.4863E-07	5.6160E+18	2.0826E+19
Sr-92	2.1110E+03	1.6795E-07	1.0994E+18	1.7143E+19
Y-90	4.4877E+00	8.2485E-09	5.5193E+16	2.1057E+16
Y-91	3.7059E+01	1.5111E-06	1.0000E+19	2.3241E+17
Y-92	1.8730E+02	1.9465E-08	1.2741E+17	3.1433E+17
Y-93	3.5240E+01	1.0563E-08	6.8398E+16	2.3757E+17
Zr-95	4.3474E+01	2.0237E-06	1.2828E+19	2.7429E+17

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Zr-97	3.8279E+01	2.0024E-08	1.2432E+17	2.5119E+17
Nb-95	4.2920E+01	1.0976E-06	6.9579E+18	2.7067E+17
Mo-99	5.3650E+02	1.1186E-06	6.8044E+18	3.4180E+18
Tc-99m	4.8300E+02	9.1857E-08	5.5876E+17	3.0378E+18
Ru-103	4.7480E+02	1.4711E-05	8.6014E+19	2.9965E+18
Ru-105	2.3844E+02	3.5471E-08	2.0344E+17	1.7522E+18
Ru-106	1.9768E+02	5.9087E-05	3.3569E+20	1.2468E+18
Rh-105	3.1399E+02	3.7200E-07	2.1336E+18	1.9853E+18
Sb-127	5.3803E+02	2.0147E-06	9.5534E+18	3.4178E+18
Sb-129	1.1784E+03	2.0955E-07	9.7825E+17	8.6967E+18
Te-127	5.4015E+02	2.0467E-07	9.7053E+17	3.3996E+18
Te-127m	9.2555E+01	9.8122E-06	4.6528E+19	5.8369E+17
Te-129	1.3545E+03	6.4680E-08	3.0195E+17	9.0916E+18
Te-129m	3.0354E+02	1.0076E-05	4.7037E+19	1.9143E+18
Te-131m	1.0917E+03	1.3691E-06	6.2936E+18	7.0404E+18
Te-132	8.0877E+03	2.6640E-05	1.2154E+20	5.1444E+19
I-131	5.9162E+04	4.7721E-04	2.1938E+21	3.0837E+20
I-132	7.8081E+04	7.5644E-06	3.4510E+19	4.3650E+20
I-133	1.1462E+05	1.0118E-04	4.5813E+20	6.2233E+20
I-134	2.3924E+04	8.9680E-07	4.0303E+18	4.0090E+20
I-135	9.2212E+04	2.6257E-05	1.1713E+20	5.5236E+20
Xe-133	1.4039E+08	7.5003E-01	3.3961E+24	3.0060E+22
Xe-133m	4.2674E+06	9.6930E-03	4.3889E+22	9.1724E+20
Xe-135	6.0667E+07	2.3756E-02	1.0597E+23	1.3226E+22
Xe-135m	2.1048E+06	2.3122E-05	1.0314E+20	1.4680E+21
Xe-138	1.7411E+05	1.8146E-06	7.9185E+18	7.1388E+20
Cs-134	5.3517E+03	4.1363E-03	1.8589E+22	6.1156E+19
Cs-136	1.6249E+03	2.2171E-05	9.8174E+19	1.8626E+19
Cs-137	4.1552E+03	4.7771E-02	2.0999E+23	4.7481E+19
Ba-139	1.4340E+03	8.7671E-08	3.7983E+17	1.5039E+19
Ba-140	4.3042E+03	5.8793E-05	2.5290E+20	2.7204E+19
La-140	7.0461E+01	1.2677E-07	5.4530E+17	2.8685E+17
La-141	2.7309E+01	4.8289E-09	2.0624E+16	2.0477E+17
La-142	1.4488E+01	1.0121E-09	4.2921E+15	1.4365E+17
Ce-141	1.0212E+02	3.5840E-06	1.5307E+19	6.4423E+17
Ce-143	9.5007E+01	1.4307E-07	6.0249E+17	6.1146E+17
Ce-144	8.1846E+01	2.5661E-05	1.0732E+20	5.1622E+17
Pr-143	3.9031E+01	5.7963E-07	2.4410E+18	2.4588E+17
Nd-147	1.5809E+01	1.9542E-07	8.0056E+17	9.9953E+16
Np-239	1.1332E+03	4.8847E-06	1.2308E+19	7.2318E+18
Pu-238	2.5436E-01	1.4858E-05	3.7595E+19	1.6041E+15
Pu-239	2.5658E-02	4.1280E-04	1.0401E+21	1.6179E+14
Pu-240	4.5314E-02	1.9895E-05	4.9922E+19	2.8578E+14
Pu-241	1.0067E+01	1.0180E-04	2.5438E+20	6.3490E+16
Am-241	5.6962E-03	1.6627E-06	4.1549E+18	3.5917E+13
Cm-242	1.5640E+00	4.7247E-07	1.1757E+18	9.8651E+15
Cm-244	1.0345E-01	1.2639E-06	3.1194E+18	6.5243E+14

DW Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	2.4448E+25	0.0000E+00		
Elemental I (atoms)	6.6438E+19	7.8027E+22		
Organic I (atoms)	1.4398E+21	0.0000E+00		
Aerosols (kg)	5.5480E-02	6.5810E+01		
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.3879E-06		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.1613E-05		
Total I (Ci)		3.6799E+05		

DW to WW Transport Group Inventory:

Time (h) = 2.2500 Leakage Transport

Noble gases (atoms)	1.7406E+26
Elemental I (atoms)	5.6183E+21
Organic I (atoms)	1.0274E+22
Aerosols (kg)	4.6671E+00

WW to DW Transport Group Inventory:

Time (h) = 2.2500 Leakage Transport

Noble gases (atoms)	3.1598E+26
Elemental I (atoms)	9.7112E+21
Organic I (atoms)	1.8665E+22
Aerosols (kg)	8.0663E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported

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Noble gases (atoms)	0.0000E+00	1.9907E+22
Elemental I (atoms)	0.0000E+00	4.6864E+18
Organic I (atoms)	0.0000E+00	1.3756E+18
Aerosols (kg)	0.0000E+00	4.2203E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7802E+21
Elemental I (atoms)	0.0000E+00	2.6334E+17
Organic I (atoms)	0.0000E+00	1.1971E+17
Aerosols (kg)	0.0000E+00	2.2967E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8271E+21
Elemental I (atoms)	0.0000E+00	7.1407E+17
Organic I (atoms)	0.0000E+00	3.2461E+17
Aerosols (kg)	0.0000E+00	6.2277E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8271E+21
Elemental I (atoms)	0.0000E+00	7.1407E+17
Organic I (atoms)	0.0000E+00	3.2461E+17
Aerosols (kg)	0.0000E+00	6.2277E-04

RB Compartment Nuclide Inventory:

Time (h) = 2.2500	Ci	kg	Atoms	Decay
Kr-83m	3.6926E+03	1.8191E-07	1.3199E+18	4.3243E+17
Kr-85m	1.3578E+04	1.6499E-06	1.1689E+19	1.4079E+18
Kr-85	9.7218E+02	2.4802E-03	1.7572E+22	9.2938E+16
Kr-87	1.1382E+04	4.0183E-07	2.7815E+18	1.4772E+18
Kr-88	3.0442E+04	2.4278E-06	1.6614E+19	3.3145E+18
Rb-86	3.4634E+00	4.2566E-08	2.9806E+17	8.8391E+14
Rb-88	2.6392E+04	2.1863E-07	1.4961E+18	2.0390E+18
Sr-89	6.8282E+01	2.3503E-06	1.5903E+19	9.2930E+15
Sr-90	7.3139E+00	5.3619E-05	3.5878E+20	9.9507E+14
Sr-91	7.1511E+01	1.9727E-08	1.3055E+17	1.0164E+16
Sr-92	4.9073E+01	3.9041E-09	2.5556E+16	7.8125E+15
Y-90	1.5379E-01	2.8266E-10	1.8914E+15	1.6251E+13
Y-91	8.7138E-01	3.5532E-08	2.3514E+17	1.1768E+14
Y-92	1.0767E+01	1.1190E-09	7.3245E+15	9.5791E+14
Y-93	8.1920E-01	2.4554E-10	1.5900E+15	1.1613E+14
Zr-95	1.0106E+00	4.7042E-08	2.9821E+17	1.3753E+14
Zr-97	8.8984E-01	4.6548E-10	2.8899E+15	1.2406E+14
Nb-95	9.9773E-01	2.5515E-08	1.6174E+17	1.3574E+14
Mo-99	1.2471E+01	2.6003E-08	1.5818E+17	1.7074E+15
Tc-99m	1.1228E+01	2.1353E-09	1.2989E+16	1.5211E+15
Ru-103	1.1037E+01	3.4198E-07	1.9995E+18	1.5023E+15
Ru-105	5.5428E+00	8.2457E-10	4.7292E+15	8.2894E+14
Ru-106	4.5953E+00	1.3735E-06	7.8034E+18	6.2522E+14
Rh-105	7.2990E+00	8.6475E-09	4.9597E+16	9.9447E+14
Sb-127	1.2507E+01	4.6834E-08	2.2208E+17	1.7092E+15
Sb-129	2.7393E+01	4.8712E-09	2.2740E+16	4.1077E+15
Te-127	1.2556E+01	4.7578E-09	2.2561E+16	1.7033E+15
Te-127m	2.1515E+00	2.2810E-07	1.0816E+18	2.9271E+14
Te-129	3.1488E+01	1.5036E-09	7.0191E+15	4.4090E+15
Te-129m	7.0560E+00	2.3422E-07	1.0934E+18	9.5998E+14
Te-131m	2.5378E+01	3.1825E-08	1.4630E+17	3.5005E+15
Te-132	1.8801E+02	6.1927E-07	2.8253E+18	2.5714E+16
I-131	1.6589E+03	1.3381E-05	6.1514E+19	4.0403E+17
I-132	1.5383E+03	1.4903E-07	6.7991E+17	4.5138E+17
I-133	3.2161E+03	2.8391E-06	1.2855E+19	8.0687E+17
I-134	6.7130E+02	2.5164E-08	1.1309E+17	3.9937E+17
I-135	2.5875E+03	7.3678E-07	3.2867E+18	6.9782E+17
Xe-133	1.1815E+05	6.3121E-04	2.8581E+21	1.1318E+19
Xe-133m	3.5876E+03	8.1490E-06	3.6898E+19	3.4470E+17
Xe-135	5.0009E+04	1.9583E-05	8.7356E+19	4.8686E+18
Xe-135m	1.4556E+03	1.5990E-08	7.1330E+16	3.3908E+17
Xe-138	1.4665E+02	1.5283E-09	6.6694E+15	1.7821E+17
Cs-134	3.4752E+02	2.6860E-04	1.2071E+21	8.8557E+16

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Cs-136	1.0552E+02	1.4397E-06	6.3751E+18	2.6947E+16
Cs-137	2.6982E+02	3.1021E-03	1.3636E+22	6.8755E+16
Ba-139	3.3335E+01	2.0380E-09	8.8296E+15	6.2427E+15
Ba-140	1.0006E+02	1.3667E-06	5.8790E+18	1.3631E+16
La-140	2.7100E+00	4.8756E-09	2.0973E+16	2.6750E+14
La-141	6.3483E-01	1.1225E-10	4.7943E+14	9.6142E+13
La-142	3.3678E-01	2.3527E-11	9.9775E+13	6.0845E+13
Ce-141	2.3733E+00	8.3292E-08	3.5574E+17	3.2298E+14
Ce-143	2.2086E+00	3.3257E-09	1.4006E+16	3.0426E+14
Ce-144	1.9026E+00	5.9652E-07	2.4947E+18	2.5887E+14
Pr-143	9.0915E-01	1.3501E-08	5.6857E+16	1.2351E+14
Nd-147	3.6749E-01	4.5426E-09	1.8610E+16	5.0076E+13
Np-239	2.6343E+01	1.1355E-07	2.8611E+17	3.6102E+15
Pu-238	5.9129E-03	3.4539E-07	8.7394E+17	8.0446E+11
Pu-239	5.9645E-04	9.5959E-06	2.4179E+19	8.1140E+10
Pu-240	1.0534E-03	4.6249E-07	1.1605E+18	1.4331E+11
Pu-241	2.3402E-01	2.3665E-06	5.9134E+18	3.1840E+13
Am-241	1.3243E-04	3.8657E-08	9.6596E+16	1.8014E+10
Cm-242	3.6357E-02	1.0983E-08	2.7331E+16	4.9469E+12
Cm-244	2.4048E-03	2.9381E-08	7.2514E+16	3.2718E+11

RB Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	2.0587E+22	0.0000E+00		
Elemental I (atoms)	3.7442E+18	0.0000E+00		
Organic I (atoms)	1.3640E+18	0.0000E+00		
Aerosols (kg)	3.4625E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.1486E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.0983E-08	
Total I (Ci)			9.6721E+03	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9907E+22
Elemental I (atoms)	0.0000E+00	4.6864E+18
Organic I (atoms)	0.0000E+00	1.3756E+18
Aerosols (kg)	0.0000E+00	4.2203E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.4179E+21
Elemental I (atoms)	0.0000E+00	7.4310E+16
Organic I (atoms)	0.0000E+00	1.4282E+17
Aerosols (kg)	0.0000E+00	6.1723E-05

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7772E+21
Elemental I (atoms)	6.0023E+17	6.0630E+15
Organic I (atoms)	1.3024E+17	1.3155E+15
Aerosols (kg)	5.5741E-04	5.6304E-06

Environment Integral Nuclide Release:

Time (h) =	2.2500	Ci	kg	Atoms	Bq
Kr-83m		3.9353E+02	1.9386E-08	1.4066E+17	1.4561E+13
Kr-85m		1.3039E+03	1.5845E-07	1.1226E+18	4.8246E+13
Kr-85		8.7101E+01	2.2222E-04	1.5744E+21	3.2228E+12
Kr-87		1.3247E+03	4.6768E-08	3.2373E+17	4.9015E+13
Kr-88		3.0481E+03	2.4309E-07	1.6635E+18	1.1278E+14
Rb-86		2.0683E-01	2.5420E-09	1.7800E+16	7.6528E+09
Rb-88		7.8717E+02	6.5208E-09	4.4624E+16	2.9125E+13
Sr-89		5.0799E-01	1.7486E-08	1.1832E+17	1.8796E+10

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Sr-90	5.4375E-02	3.9862E-07	2.6673E+18	2.0119E+09
Sr-91	5.8237E-01	1.6066E-10	1.0632E+15	2.1548E+10
Sr-92	5.0377E-01	4.0079E-11	2.6235E+14	1.8639E+10
Y-90	7.3006E-04	1.3419E-12	8.9788E+12	2.7012E+07
Y-91	6.4008E-03	2.6100E-10	1.7272E+15	2.3683E+08
Y-92	3.3135E-02	3.4436E-12	2.2541E+13	1.2260E+09
Y-93	6.6352E-03	1.9888E-12	1.2878E+13	2.4550E+08
Zr-95	7.5175E-03	3.4993E-10	2.2182E+15	2.7815E+08
Zr-97	6.9625E-03	3.6421E-12	2.2611E+13	2.5761E+08
Nb-95	7.4175E-03	1.8969E-10	1.2025E+15	2.7445E+08
Mo-99	9.3937E-02	1.9586E-10	1.1914E+15	3.4757E+09
Tc-99m	8.3610E-02	1.5901E-11	9.6724E+13	3.0936E+09
Ru-103	8.2130E-02	2.5448E-09	1.4879E+16	3.0388E+09
Ru-105	5.0125E-02	7.4569E-12	4.2768E+13	1.8546E+09
Ru-106	3.4166E-02	1.0212E-08	5.8019E+16	1.2642E+09
Rh-105	5.4469E-02	6.4533E-11	3.7012E+14	2.0154E+09
Sb-127	9.3854E-02	3.5145E-10	1.6665E+15	3.4726E+09
Sb-129	2.4909E-01	4.4295E-11	2.0678E+14	9.2162E+09
Te-127	9.3421E-02	3.5399E-11	1.6786E+14	3.4566E+09
Te-127m	1.5995E-02	1.6957E-09	8.0408E+15	5.9182E+08
Te-129	2.5884E-01	1.2360E-11	5.7699E+13	9.5771E+09
Te-129m	5.2459E-02	1.7414E-09	8.1293E+15	1.9410E+09
Te-131m	1.9418E-01	2.4351E-10	1.1194E+15	7.1845E+09
Te-132	1.4132E+00	4.6550E-09	2.1237E+16	5.2289E+10
I-131	9.0872E+01	7.3299E-07	3.3696E+18	3.3623E+12
I-132	1.1420E+02	1.1063E-08	5.0473E+16	4.2253E+12
I-133	1.8505E+02	1.6335E-07	7.3966E+17	6.8468E+12
I-134	1.3812E+02	5.1776E-09	2.3269E+16	5.1105E+12
I-135	1.6752E+02	4.7702E-08	2.1279E+17	6.1983E+12
Xe-133	1.0603E+04	5.6645E-05	2.5648E+20	3.9231E+14
Xe-133m	3.2273E+02	7.3306E-07	3.3192E+18	1.1941E+13
Xe-135	4.5390E+03	1.7774E-06	7.9288E+18	1.6794E+14
Xe-135m	2.5843E+02	2.8388E-09	1.2664E+16	9.5618E+12
Xe-138	1.2351E+02	1.2872E-09	5.6173E+15	4.5699E+12
Cs-134	2.0702E+01	1.6001E-05	7.1909E+19	7.6598E+11
Cs-136	6.3082E+00	8.6071E-08	3.8113E+17	2.3340E+11
Cs-137	1.6073E+01	1.8478E-04	8.1225E+20	5.9469E+11
Ba-139	4.7100E-01	2.8795E-11	1.2475E+14	1.7427E+10
Ba-140	7.4595E-01	1.0189E-08	4.3830E+16	2.7600E+10
La-140	1.1191E-02	2.0134E-11	8.6605E+13	4.1406E+08
La-141	5.8902E-03	1.0415E-12	4.4484E+12	2.1794E+08
La-142	4.4393E-03	3.1011E-13	1.3152E+12	1.6425E+08
Ce-141	1.7653E-02	6.1955E-10	2.6461E+15	6.5317E+08
Ce-143	1.6854E-02	2.5380E-11	1.0688E+14	6.2361E+08
Ce-144	1.4146E-02	4.4353E-09	1.8549E+16	5.2342E+08
Pr-143	6.7441E-03	1.0015E-10	4.2177E+14	2.4953E+08
Nd-147	2.7410E-03	3.3882E-11	1.3881E+14	1.0142E+08
Np-239	1.9885E-01	8.5716E-10	2.1598E+15	7.3576E+09
Pu-238	4.3958E-05	2.5677E-09	6.4971E+15	1.6265E+06
Pu-239	4.4334E-06	7.1326E-08	1.7972E+17	1.6404E+05
Pu-240	7.8312E-06	3.4383E-09	8.6275E+15	2.8975E+05
Pu-241	1.7398E-03	1.7593E-08	4.3962E+16	6.4374E+07
Am-241	9.8425E-07	2.8730E-10	7.1792E+14	3.6417E+04
Cm-242	2.7035E-04	8.1671E-11	2.0324E+14	1.0003E+07
Cm-244	1.7879E-05	2.1843E-10	5.3910E+14	6.6151E+05

Environment Transport Group Inventory:

	Total Release	Release Rate/s
Time (h) = 2.2500		
Noble gases (atoms)	1.8454E+21	2.2782E+17
Elemental I (atoms)	2.1295E+17	2.6290E+13
Organic I (atoms)	1.1695E+16	1.4438E+12
Aerosols (kg)	2.0234E-04	2.4980E-08
Dose Effective (Ci) I-131 (Thyroid)		1.2734E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.6075E+02
Total I (Ci)		6.9576E+02

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.2500		
Noble gases (atoms)	0.0000E+00	1.4104E+17
Elemental I (atoms)	1.9212E+14	1.9582E+12
Organic I (atoms)	9.6839E+12	9.8362E+10
Aerosols (kg)	1.8262E-07	1.8613E-09

CR Unfiltered Inleakage Transport Group Inventory:

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	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6119E+16
Elemental I (atoms)	0.0000E+00	3.5944E+13
Organic I (atoms)	0.0000E+00	1.8116E+12
Aerosols (kg)	0.0000E+00	3.4165E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	3.4828E+16	0.0000E+00
Elemental I (atoms)	1.1828E+13	0.0000E+00
Organic I (atoms)	5.6989E+11	0.0000E+00
Aerosols (kg)	1.1406E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7772E+21
Elemental I (atoms)	6.0023E+17	6.0630E+15
Organic I (atoms)	1.3024E+17	1.3155E+15
Aerosols (kg)	5.5741E-04	5.6304E-06

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		2.3705E-02	1.1678E-12	8.4728E+12	4.4420E+12
Kr-85m		8.7164E-02	1.0592E-11	7.5041E+13	1.3872E+13
Kr-85		6.2409E-03	1.5922E-08	1.1281E+17	8.9050E+11
Kr-87		7.3068E-02	2.5796E-12	1.7856E+13	1.5711E+13
Kr-88		1.9542E-01	1.5585E-11	1.0665E+14	3.3209E+13
Rb-86		2.0248E-05	2.4884E-13	1.7425E+12	6.1086E+09
Rb-88		1.7486E-01	1.4485E-12	9.9127E+12	2.0827E+13
Sr-89		4.7474E-05	1.6341E-12	1.1057E+13	1.1291E+10
Sr-90		5.0851E-06	3.7279E-11	2.4944E+14	1.2088E+09
Sr-91		4.9719E-05	1.3716E-14	9.0767E+10	1.2505E+10
Sr-92		3.4118E-05	2.7144E-15	1.7768E+10	9.9224E+09
Y-90		1.3880E-07	2.5512E-16	1.7071E+09	2.2730E+07
Y-91		6.1241E-07	2.4972E-14	1.6526E+11	1.4360E+08
Y-92		1.1708E-05	1.2168E-15	7.9648E+09	1.6409E+09
Y-93		5.6956E-07	1.7071E-16	1.1054E+09	1.4277E+08
Zr-95		7.0264E-07	3.2707E-14	2.0733E+11	1.6709E+08
Zr-97		6.1867E-07	3.2363E-16	2.0092E+09	1.5179E+08
Nb-95		6.9368E-07	1.7740E-14	1.1245E+11	1.6490E+08
Mo-99		8.6709E-06	1.8079E-14	1.0997E+11	2.0780E+09
Tc-99m		7.8064E-06	1.4846E-15	9.0307E+09	1.8488E+09
Ru-103		7.6737E-06	2.3777E-13	1.3902E+12	1.8253E+09
Ru-105		3.8537E-06	5.7329E-16	3.2880E+09	1.0347E+09
Ru-106		3.1949E-06	9.5497E-13	5.4254E+12	7.5955E+08
Rh-105		5.0747E-06	6.0123E-15	3.4483E+10	1.2088E+09
Sb-127		8.6957E-06	3.2562E-14	1.5440E+11	2.0791E+09
Sb-129		1.9045E-05	3.3868E-15	1.5811E+10	5.1312E+09
Te-127		8.7300E-06	3.3079E-15	1.5686E+10	2.0698E+09
Te-127m		1.4959E-06	1.5859E-13	7.5199E+11	3.5560E+08
Te-129		2.1892E-05	1.0454E-15	4.8801E+09	5.4361E+09
Te-129m		4.9058E-06	1.6285E-13	7.6021E+11	1.1662E+09
Te-131m		1.7644E-05	2.2127E-14	1.0172E+11	4.2696E+09
Te-132		1.3071E-04	4.3056E-13	1.9643E+12	3.1286E+10
I-131		8.8603E-03	7.1469E-11	3.2855E+14	2.6718E+12
I-132		6.8441E-03	6.6305E-13	3.0250E+12	2.7469E+12
I-133		1.7182E-02	1.5168E-11	6.8679E+13	5.3303E+12
I-134		3.5864E-03	1.3444E-13	6.0419E+11	2.4835E+12
I-135		1.3824E-02	3.9363E-12	1.7559E+13	4.5958E+12
Xe-133		7.5759E-01	4.0474E-09	1.8326E+16	1.0842E+14
Xe-133m		2.2969E-02	5.2173E-11	2.3623E+14	3.3014E+12
Xe-135		3.1092E-01	1.2175E-10	5.4311E+14	4.5739E+13

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Xe-135m	6.1392E-03	6.7440E-14	3.0084E+11	3.2257E+12
Xe-138	9.4141E-04	9.8112E-15	4.2815E+10	2.9456E+12
Cs-134	2.0317E-03	1.5703E-09	7.0570E+15	6.1206E+11
Cs-136	6.1687E-04	8.4168E-12	3.7270E+13	1.8622E+11
Cs-137	1.5774E-03	1.8135E-08	7.9717E+16	4.7520E+11
Ba-139	2.3177E-05	1.4169E-15	6.1389E+09	8.2758E+09
Ba-140	6.9565E-05	9.5022E-13	4.0874E+12	1.6566E+10
La-140	2.5741E-06	4.6311E-15	1.9921E+10	3.8985E+08
La-141	4.4137E-07	7.8044E-17	3.3333E+08	1.2043E+08
La-142	2.3415E-07	1.6357E-17	6.9369E+07	7.9922E+07
Ce-141	1.6496E-06	5.7894E-14	2.4727E+11	3.9233E+08
Ce-143	1.5355E-06	2.3122E-15	9.7375E+09	3.7097E+08
Ce-144	1.3228E-06	4.1474E-13	1.7344E+12	3.1448E+08
Pr-143	6.3328E-07	9.4045E-15	3.9605E+10	1.5016E+08
Nd-147	2.5550E-07	3.1583E-15	1.2939E+10	6.0862E+07
Np-239	1.8315E-05	7.8947E-14	1.9892E+11	4.3951E+09
Pu-238	4.1110E-09	2.4013E-13	6.0761E+11	9.7728E+05
Pu-239	4.1469E-10	6.6716E-12	1.6811E+13	9.8569E+04
Pu-240	7.3237E-10	3.2155E-13	8.0684E+11	1.7410E+05
Pu-241	1.6271E-07	1.6453E-12	4.1113E+12	3.8680E+07
Am-241	9.2085E-11	2.6880E-14	6.7167E+10	2.1885E+04
Cm-242	2.5277E-08	7.6362E-15	1.9002E+10	6.0098E+06
Cm-244	1.6720E-09	2.0427E-14	5.0416E+10	3.9747E+05

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)		1.3212E+17	0.0000E+00	
Elemental I (atoms)		2.0272E+13	0.0000E+00	
Organic I (atoms)		1.0610E+12	0.0000E+00	
Aerosols (kg)		1.9854E-08	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.1276E-12	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.3821E-12	
Total I (Ci)			5.0297E-02	

	Deposition	Recirculating	
Time (h) =	2.2500	Surfaces	Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	4.9399E+12
Organic I (atoms)		0.0000E+00	2.3802E+11
Aerosols (kg)		0.0000E+00	4.7639E-09

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered
Noble gases (atoms)		0.0000E+00
Elemental I (atoms)		1.9212E+14
Organic I (atoms)		9.6839E+12
Aerosols (kg)		1.8262E-07

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered
Noble gases (atoms)		0.0000E+00
Elemental I (atoms)		0.0000E+00
Organic I (atoms)		0.0000E+00
Aerosols (kg)		0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered
Noble gases (atoms)		3.4828E+16
Elemental I (atoms)		1.1828E+13
Organic I (atoms)		5.6989E+11
Aerosols (kg)		1.1406E-08

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0633E-02	5.3108E-03	1.0880E-02
Accumulated dose (rem)		9.6279E-02	5.6815E+00	3.3918E-01

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.1010E-03	2.5478E-03	5.2195E-03

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Accumulated dose (rem) 3.3600E-02 7.8970E-01 6.7406E-02

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6879E-04	2.2697E-01	1.0443E-02	
Accumulated dose (rem)	4.8143E-03	3.8175E+00	1.6965E-01	

DW Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		4.1454E+06	2.0421E-04	1.4817E+21	1.3117E+21
Kr-85m		1.5749E+07	1.9138E-03	1.3559E+22	4.1567E+21
Kr-85		1.1541E+06	2.9445E+00	2.0861E+25	2.6955E+20
Kr-87		1.2452E+07	4.3959E-04	3.0428E+21	4.5838E+21
Kr-88		3.4841E+07	2.7785E-03	1.9014E+22	9.8923E+21
Rb-86		5.8021E+01	7.1307E-07	4.9933E+18	6.1195E+17
Rb-88		1.8690E+07	1.5482E-04	1.0595E+21	8.3296E+20
Sr-89		3.1958E+03	1.1000E-04	7.4433E+20	1.8599E+19
Sr-90		3.4235E+02	2.5097E-03	1.6793E+22	1.9911E+18
Sr-91		3.3108E+03	9.1333E-07	6.0442E+18	2.0893E+19
Sr-92		2.2105E+03	1.7586E-07	1.1512E+18	1.7188E+19
Y-90		5.4311E+00	9.9824E-09	6.6795E+16	2.1157E+16
Y-91		4.0424E+01	1.6483E-06	1.0908E+19	2.3322E+17
Y-92		2.6365E+02	2.7400E-08	1.7935E+17	3.1863E+17
Y-93		3.7952E+01	1.1375E-08	7.3660E+16	2.3833E+17
Zr-95		4.7301E+01	2.2018E-06	1.3957E+19	2.7524E+17
Zr-97		4.1395E+01	2.1654E-08	1.3444E+17	2.5202E+17
Nb-95		4.6701E+01	1.1943E-06	7.5708E+18	2.7160E+17
Mo-99		5.8284E+02	1.2152E-06	7.3921E+18	3.4296E+18
Tc-99m		5.2538E+02	9.9916E-08	6.0779E+17	3.0482E+18
Ru-103		5.1656E+02	1.6006E-05	9.3581E+19	3.0068E+18
Ru-105		2.5344E+02	3.7703E-08	2.1624E+17	1.7573E+18
Ru-106		2.1509E+02	6.4291E-05	3.6525E+20	1.2511E+18
Rh-105		3.4140E+02	4.0447E-07	2.3198E+18	1.9921E+18
Sb-127		5.8477E+02	2.1897E-06	1.0383E+19	3.4295E+18
Sb-129		1.2517E+03	2.2259E-07	1.0391E+18	8.7220E+18
Te-127		5.8765E+02	2.2267E-07	1.0559E+18	3.4113E+18
Te-127m		1.0071E+02	1.0677E-05	5.0627E+19	5.8570E+17
Te-129		1.4521E+03	6.9337E-08	3.2369E+17	9.1203E+18
Te-129m		3.3027E+02	1.0963E-05	5.1179E+19	1.9209E+18
Te-131m		1.1838E+03	1.4845E-06	6.8243E+18	7.0641E+18
Te-132		8.7884E+03	2.8948E-05	1.3207E+20	5.1620E+19
I-131		6.0403E+04	4.8722E-04	2.2398E+21	3.0958E+20
I-132		7.6633E+04	7.4242E-06	3.3871E+19	4.3807E+20
I-133		1.1650E+05	1.0284E-04	4.6565E+20	6.2467E+20
I-134		2.1705E+04	8.1364E-07	3.6566E+18	4.0137E+20
I-135		9.2726E+04	2.6404E-05	1.1778E+20	5.5423E+20
Xe-133		1.4026E+08	7.4935E-01	3.3930E+24	3.2863E+22
Xe-133m		4.2586E+06	9.6731E-03	4.3799E+22	1.0024E+21
Xe-135		5.9991E+07	2.3492E-02	1.0479E+23	1.4432E+22
Xe-135m		1.4052E+06	1.5436E-05	6.8858E+19	1.5025E+21
Xe-138		1.1220E+05	1.1693E-06	5.1028E+18	7.1669E+20
Cs-134		5.8231E+03	4.5007E-03	2.0227E+22	6.1273E+19
Cs-136		1.7675E+03	2.4116E-05	1.0679E+20	1.8661E+19
Cs-137		4.5212E+03	5.1979E-02	2.2848E+23	4.7571E+19
Ba-139		1.4470E+03	8.8462E-08	3.8326E+17	1.5069E+19
Ba-140		4.6818E+03	6.3951E-05	2.7509E+20	2.7298E+19
La-140		8.8552E+01	1.5932E-07	6.8530E+17	2.8844E+17
La-141		2.8939E+01	5.1170E-09	2.1855E+16	2.0535E+17
La-142		1.4736E+01	1.0294E-09	4.3656E+15	1.4396E+17
Ce-141		1.1110E+02	3.8993E-06	1.6654E+19	6.4645E+17
Ce-143		1.0305E+02	1.5518E-07	6.5350E+17	6.1353E+17
Ce-144		8.9054E+01	2.7921E-05	1.1677E+20	5.1800E+17
Pr-143		4.2489E+01	6.3097E-07	2.6572E+18	2.4673E+17
Nd-147		1.7195E+01	2.1255E-07	8.7073E+17	1.0030E+17
Np-239		1.2308E+03	5.3052E-06	1.3368E+19	7.2564E+18
Pu-238		2.7677E-01	1.6167E-05	4.0907E+19	1.6097E+15
Pu-239		2.7919E-02	4.4917E-04	1.1318E+21	1.6235E+14
Pu-240		4.9306E-02	2.1648E-05	5.4319E+19	2.8676E+14
Pu-241		1.0954E+01	1.1077E-04	2.7679E+20	6.3709E+16
Am-241		6.1983E-03	1.8093E-06	4.5211E+18	3.6041E+13
Cm-242		1.7017E+00	5.1408E-07	1.2793E+18	9.8991E+15
Cm-244		1.1256E-01	1.3752E-06	3.3942E+18	6.5468E+14

DW Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	2.4440E+25	0.0000E+00	

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Elemental I (atoms)	1.2330E+19	7.8121E+22	
Organic I (atoms)	1.4360E+21	0.0000E+00	
Aerosols (kg)	6.0434E-02	6.5810E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			9.5676E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.1809E-05
Total I (Ci)			3.6797E+05

DW to WW Transport Group Inventory:

Time (h) = 2.4000 Leakage Transport

Noble gases (atoms)	3.1112E+26
Elemental I (atoms)	5.7953E+21
Organic I (atoms)	1.8341E+22
Aerosols (kg)	5.0232E+00

WW to DW Transport Group Inventory:

Time (h) = 2.4000 Leakage Transport

Noble gases (atoms)	4.5304E+26
Elemental I (atoms)	9.9289E+21
Organic I (atoms)	2.6732E+22
Aerosols (kg)	8.3768E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1883E+22
Elemental I (atoms)	0.0000E+00	4.6890E+18
Organic I (atoms)	0.0000E+00	1.4919E+18
Aerosols (kg)	0.0000E+00	4.2255E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9593E+21
Elemental I (atoms)	0.0000E+00	2.6357E+17
Organic I (atoms)	0.0000E+00	1.3025E+17
Aerosols (kg)	0.0000E+00	2.3013E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3128E+21
Elemental I (atoms)	0.0000E+00	7.1469E+17
Organic I (atoms)	0.0000E+00	3.5320E+17
Aerosols (kg)	0.0000E+00	6.2403E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3128E+21
Elemental I (atoms)	0.0000E+00	7.1469E+17
Organic I (atoms)	0.0000E+00	3.5320E+17
Aerosols (kg)	0.0000E+00	6.2403E-04

RB Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	3.9291E+03	1.9356E-07	1.4044E+18	5.1117E+17
Kr-85m	1.4928E+04	1.8139E-06	1.2851E+19	1.7022E+18
Kr-85	1.0939E+03	2.7908E-03	1.9772E+22	1.1426E+17
Kr-87	1.1802E+04	4.1665E-07	2.8840E+18	1.7168E+18
Kr-88	3.3022E+04	2.6335E-06	1.8022E+19	3.9699E+18
Rb-86	3.3998E+00	4.1783E-08	2.9259E+17	9.5212E+14
Rb-88	3.0022E+04	2.4870E-07	1.7019E+18	2.5425E+18
Sr-89	6.7288E+01	2.3161E-06	1.5672E+19	1.0642E+16
Sr-90	7.2081E+00	5.2842E-05	3.5358E+20	1.1396E+15
Sr-91	6.9709E+01	1.9230E-08	1.2726E+17	1.1569E+16
Sr-92	4.6542E+01	3.7028E-09	2.4238E+16	8.7635E+15
Y-90	1.6274E-01	2.9912E-10	2.0015E+15	1.9334E+13
Y-91	8.6083E-01	3.5102E-08	2.3229E+17	1.3490E+14
Y-92	1.1653E+01	1.2110E-09	7.9271E+15	1.1732E+15
Y-93	7.9907E-01	2.3951E-10	1.5509E+15	1.3223E+14
Zr-95	9.9591E-01	4.6358E-08	2.9387E+17	1.5750E+14

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Zr-97	8.7158E-01	4.5592E-10	2.8306E+15	1.4159E+14
Nb-95	9.8329E-01	2.5146E-08	1.5940E+17	1.5545E+14
Mo-99	1.2272E+01	2.5586E-08	1.5564E+17	1.9536E+15
Tc-99m	1.1062E+01	2.1037E-09	1.2797E+16	1.7418E+15
Ru-103	1.0876E+01	3.3700E-07	1.9703E+18	1.7203E+15
Ru-105	5.3361E+00	7.9382E-10	4.5529E+15	9.3716E+14
Ru-106	4.5287E+00	1.3536E-06	7.6904E+18	7.1600E+14
Rh-105	7.1881E+00	8.5161E-09	4.8843E+16	1.1385E+15
Sb-127	1.2312E+01	4.6104E-08	2.1862E+17	1.9561E+15
Sb-129	2.6354E+01	4.6865E-09	2.1878E+16	4.6424E+15
Te-127	1.2373E+01	4.6883E-09	2.2231E+16	1.9506E+15
Te-127m	2.1204E+00	2.2479E-07	1.0659E+18	3.3522E+14
Te-129	3.0573E+01	1.4599E-09	6.8152E+15	5.0138E+15
Te-129m	6.9537E+00	2.3083E-07	1.0776E+18	1.0994E+15
Te-131m	2.4924E+01	3.1256E-08	1.4369E+17	4.0009E+15
Te-132	1.8504E+02	6.0950E-07	2.7807E+18	2.9425E+16
I-131	1.6320E+03	1.3164E-05	6.0516E+19	4.3676E+17
I-132	1.4583E+03	1.4128E-07	6.4455E+17	4.8114E+17
I-133	3.1498E+03	2.7805E-06	1.2590E+19	8.7018E+17
I-134	5.8686E+02	2.1999E-08	9.8865E+16	4.1187E+17
I-135	2.5071E+03	7.1389E-07	3.1845E+18	7.4849E+17
Xe-133	1.3285E+05	7.0976E-04	3.2137E+21	1.3908E+19
Xe-133m	4.0301E+03	9.1540E-06	4.1449E+19	4.2331E+17
Xe-135	5.5828E+04	2.1861E-05	9.7520E+19	5.9616E+18
Xe-135m	1.2615E+03	1.3858E-08	6.1819E+16	3.6647E+17
Xe-138	1.0634E+02	1.1083E-09	4.8365E+15	1.8081E+17
Cs-134	3.4121E+02	2.6372E-04	1.1852E+21	9.5402E+16
Cs-136	1.0357E+02	1.4131E-06	6.2573E+18	2.9025E+16
Cs-137	2.6493E+02	3.0458E-03	1.3388E+22	7.4070E+16
Ba-139	3.0466E+01	1.8626E-09	8.0695E+15	6.8770E+15
Ba-140	9.8574E+01	1.3465E-06	5.7919E+18	1.5607E+16
La-140	2.9122E+00	5.2393E-09	2.2537E+16	3.2200E+14
La-141	6.0930E-01	1.0774E-10	4.6015E+14	1.0852E+14
La-142	3.1026E-01	2.1674E-11	9.1918E+13	6.7279E+13
Ce-141	2.3387E+00	8.2078E-08	3.5056E+17	3.6986E+14
Ce-143	2.1697E+00	3.2673E-09	1.3759E+16	3.4782E+14
Ce-144	1.8750E+00	5.8788E-07	2.4585E+18	2.9645E+14
Pr-143	8.9639E-01	1.3312E-08	5.6059E+16	1.4147E+14
Nd-147	3.6203E-01	4.4751E-09	1.8333E+16	5.7334E+13
Np-239	2.5914E+01	1.1170E-07	2.8145E+17	4.1301E+15
Pu-238	5.8273E-03	3.4039E-07	8.6129E+17	9.2127E+11
Pu-239	5.8783E-04	9.4572E-06	2.3829E+19	9.2922E+10
Pu-240	1.0381E-03	4.5579E-07	1.1437E+18	1.6412E+11
Pu-241	2.3064E-01	2.3322E-06	5.8277E+18	3.6463E+13
Am-241	1.3052E-04	3.8099E-08	9.5202E+16	2.0631E+10
Cm-242	3.5829E-02	1.0824E-08	2.6935E+16	5.6651E+12
Cm-244	2.3700E-03	2.8955E-08	7.1464E+16	3.7469E+11

RB Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	2.3160E+22	0.0000E+00	
Elemental I (atoms)	3.6641E+18	0.0000E+00	
Organic I (atoms)	1.5092E+18	0.0000E+00	
Aerosols (kg)	3.3999E-03	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.0742E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.9970E-08	
Total I (Ci)		9.3340E+03	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.1883E+22
Elemental I (atoms)	0.0000E+00	4.6890E+18
Organic I (atoms)	0.0000E+00	1.4919E+18
Aerosols (kg)	0.0000E+00	4.2255E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.4667E+21
Elemental I (atoms)	0.0000E+00	7.5976E+16
Organic I (atoms)	0.0000E+00	2.0455E+17
Aerosols (kg)	0.0000E+00	6.4099E-05

Drawdown Release from RB to Environment Transport Group Inventory:

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	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2238E+21
Elemental I (atoms)	6.7515E+17	6.8197E+15
Organic I (atoms)	1.5929E+17	1.6090E+15
Aerosols (kg)	6.2675E-04	6.3308E-06

Environment Integral Nuclide Release:

Time (h) = 2.4000	Ci	kg	Atoms	Bq
Kr-83m	4.7022E+02	2.3164E-08	1.6807E+17	1.7398E+13
Kr-85m	1.5932E+03	1.9360E-07	1.3716E+18	5.8949E+13
Kr-85	1.0819E+02	2.7602E-04	1.9556E+21	4.0031E+12
Kr-87	1.5564E+03	5.4946E-08	3.8034E+17	5.7587E+13
Kr-88	3.6899E+03	2.9427E-07	2.0138E+18	1.3653E+14
Rb-86	2.0753E-01	2.5506E-09	1.7860E+16	7.6788E+09
Rb-88	9.1806E+02	7.6051E-09	5.2044E+16	3.3968E+13
Sr-89	5.2183E-01	1.7962E-08	1.2154E+17	1.9308E+10
Sr-90	5.5857E-02	4.0949E-07	2.7400E+18	2.0667E+09
Sr-91	5.9674E-01	1.6462E-10	1.0894E+15	2.2079E+10
Sr-92	5.1342E-01	4.0847E-11	2.6737E+14	1.8996E+10
Y-90	7.6302E-04	1.4025E-12	9.3842E+12	2.8232E+07
Y-91	6.5777E-03	2.6822E-10	1.7750E+15	2.4338E+08
Y-92	3.5487E-02	3.6880E-12	2.4141E+13	1.3130E+09
Y-93	6.7999E-03	2.0381E-12	1.3198E+13	2.5160E+08
Zr-95	7.7222E-03	3.5946E-10	2.2786E+15	2.8572E+08
Zr-97	7.1419E-03	3.7360E-12	2.3194E+13	2.6425E+08
Nb-95	7.6196E-03	1.9486E-10	1.2352E+15	2.8193E+08
Mo-99	9.6461E-02	2.0112E-10	1.2234E+15	3.5691E+09
Tc-99m	8.5885E-02	1.6333E-11	9.9355E+13	3.1777E+09
Ru-103	8.4366E-02	2.6141E-09	1.5284E+16	3.1215E+09
Ru-105	5.1228E-02	7.6210E-12	4.3709E+13	1.8954E+09
Ru-106	3.5097E-02	1.0491E-08	5.9600E+16	1.2986E+09
Rh-105	5.5947E-02	6.6284E-11	3.8016E+14	2.0700E+09
Sb-127	9.6387E-02	3.6093E-10	1.7115E+15	3.5663E+09
Sb-129	2.5454E-01	4.5264E-11	2.1131E+14	9.4178E+09
Te-127	9.5965E-02	3.6363E-11	1.7243E+14	3.5507E+09
Te-127m	1.6431E-02	1.7419E-09	8.2600E+15	6.0795E+08
Te-129	2.6515E-01	1.2661E-11	5.9106E+13	9.8106E+09
Te-129m	5.3889E-02	1.7888E-09	8.3509E+15	1.9939E+09
Te-131m	1.9930E-01	2.4994E-10	1.1490E+15	7.3742E+09
Te-132	1.4513E+00	4.7803E-09	2.1809E+16	5.3697E+10
I-131	9.1208E+01	7.3570E-07	3.3820E+18	3.3747E+12
I-132	1.1450E+02	1.1093E-08	5.0607E+16	4.2365E+12
I-133	1.8570E+02	1.6393E-07	7.4225E+17	6.8708E+12
I-134	1.3824E+02	5.1822E-09	2.3290E+16	5.1150E+12
I-135	1.6804E+02	4.7849E-08	2.1345E+17	6.2174E+12
Xe-133	1.3165E+04	7.0331E-05	3.1845E+20	4.8709E+14
Xe-133m	4.0046E+02	9.0960E-07	4.1186E+18	1.4817E+13
Xe-135	5.6163E+03	2.1992E-06	9.8105E+18	2.0780E+14
Xe-135m	2.8240E+02	3.1022E-09	1.3838E+16	1.0449E+13
Xe-138	1.2577E+02	1.3108E-09	5.7201E+15	4.6536E+12
Cs-134	2.0772E+01	1.6055E-05	7.2154E+19	7.6858E+11
Cs-136	6.3296E+00	8.6362E-08	3.8242E+17	2.3419E+11
Cs-137	1.6127E+01	1.8541E-04	8.1501E+20	5.9671E+11
Ba-139	4.7737E-01	2.9185E-11	1.2644E+14	1.7663E+10
Ba-140	7.6622E-01	1.0466E-08	4.5021E+16	2.8350E+10
La-140	1.1779E-02	2.1192E-11	9.1156E+13	4.3582E+08
La-141	6.0163E-03	1.0638E-12	4.5436E+12	2.2260E+08
La-142	4.5040E-03	3.1464E-13	1.3344E+12	1.6665E+08
Ce-141	1.8134E-02	6.3643E-10	2.7182E+15	6.7096E+08
Ce-143	1.7301E-02	2.6052E-11	1.0971E+14	6.4013E+08
Ce-144	1.4532E-02	4.5562E-09	1.9054E+16	5.3768E+08
Pr-143	6.9284E-03	1.0289E-10	4.3329E+14	2.5635E+08
Nd-147	2.8155E-03	3.4803E-11	1.4258E+14	1.0417E+08
Np-239	2.0418E-01	8.8014E-10	2.2177E+15	7.5548E+09
Pu-238	4.5157E-05	2.6377E-09	6.6742E+15	1.6708E+06
Pu-239	4.5543E-06	7.3271E-08	1.8462E+17	1.6851E+05
Pu-240	8.0446E-06	3.5320E-09	8.8627E+15	2.9765E+05

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Pu-241	1.7873E-03	1.8073E-08	4.5161E+16	6.6129E+07
Am-241	1.0111E-06	2.9514E-10	7.3749E+14	3.7410E+04
Cm-242	2.7772E-04	8.3896E-11	2.0877E+14	1.0275E+07
Cm-244	1.8366E-05	2.2438E-10	5.5379E+14	6.7954E+05

Environment Transport Group Inventory:

	Total Release	Release Rate/s	
Time (h) = 2.4000			
Noble gases (atoms)	2.2919E+21	2.6527E+17	
Elemental I (atoms)	2.1370E+17	2.4734E+13	
Organic I (atoms)	1.1988E+16	1.3875E+12	
Aerosols (kg)	2.0304E-04	2.3500E-08	
Dose Effective (Ci) I-131 (Thyroid)			1.2780E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			1.6131E+02
Total I (Ci)			6.9769E+02

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	1.5379E+17
Elemental I (atoms)	1.9214E+14	1.9585E+12
Organic I (atoms)	9.6922E+12	9.8446E+10
Aerosols (kg)	1.8264E-07	1.8615E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	2.8480E+16
Elemental I (atoms)	0.0000E+00	3.5948E+13
Organic I (atoms)	0.0000E+00	1.8132E+12
Aerosols (kg)	0.0000E+00	3.4169E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	4.0005E+16	0.0000E+00
Elemental I (atoms)	1.2573E+13	0.0000E+00
Organic I (atoms)	6.0895E+11	0.0000E+00
Aerosols (kg)	1.2137E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	2.2238E+21
Elemental I (atoms)	6.7515E+17	6.8197E+15
Organic I (atoms)	1.5929E+17	1.6090E+15
Aerosols (kg)	6.2675E-04	6.3308E-06

CR Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	2.4101E-02	1.1873E-12	8.6143E+12	4.9291E+12
Kr-85m	9.1564E-02	1.1126E-11	7.8828E+13	1.5692E+13
Kr-85	6.7099E-03	1.7119E-08	1.2128E+17	1.0224E+12
Kr-87	7.2391E-02	2.5557E-12	1.7690E+13	1.7193E+13
Kr-88	2.0256E-01	1.6154E-11	1.1055E+14	3.7263E+13
Rb-86	1.9191E-05	2.3585E-13	1.6516E+12	6.4967E+09
Rb-88	1.8203E-01	1.5079E-12	1.0319E+13	2.3947E+13
Sr-89	4.5068E-05	1.5513E-12	1.0497E+13	1.2202E+10
Sr-90	4.8278E-06	3.5393E-11	2.3682E+14	1.3064E+09
Sr-91	4.6690E-05	1.2880E-14	8.5237E+10	1.3454E+10
Sr-92	3.1173E-05	2.4801E-15	1.6234E+10	1.0565E+10
Y-90	1.3936E-07	2.5614E-16	1.7139E+09	2.5425E+07
Y-91	5.8283E-07	2.3766E-14	1.5728E+11	1.5536E+08

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Y-92	1.1715E-05	1.2175E-15	7.9694E+09	1.8664E+09
Y-93	5.3521E-07	1.6042E-16	1.0388E+09	1.5364E+08
Zr-95	6.6705E-07	3.1050E-14	1.9683E+11	1.8057E+08
Zr-97	5.8377E-07	3.0537E-16	1.8959E+09	1.6363E+08
Nb-95	6.5859E-07	1.6842E-14	1.0677E+11	1.7821E+08
Mo-99	8.2193E-06	1.7137E-14	1.0425E+11	2.2442E+09
Tc-99m	7.4091E-06	1.4090E-15	8.5711E+09	1.9979E+09
Ru-103	7.2847E-06	2.2571E-13	1.3197E+12	1.9725E+09
Ru-105	3.5740E-06	5.3169E-16	3.0494E+09	1.1078E+09
Ru-106	3.0332E-06	9.0664E-13	5.1509E+12	8.2086E+08
Rh-105	4.8145E-06	5.7040E-15	3.2714E+10	1.3061E+09
Sb-127	8.2465E-06	3.0880E-14	1.4643E+11	2.2459E+09
Sb-129	1.7652E-05	3.1390E-15	1.4654E+10	5.4923E+09
Te-127	8.2872E-06	3.1402E-15	1.4890E+10	2.2369E+09
Te-127m	1.4202E-06	1.5056E-13	7.1395E+11	3.8430E+08
Te-129	2.0478E-05	9.7781E-16	4.5647E+09	5.8446E+09
Te-129m	4.6575E-06	1.5460E-13	7.2174E+11	1.2604E+09
Te-131m	1.6694E-05	2.0935E-14	9.6238E+10	4.6076E+09
Te-132	1.2394E-04	4.0823E-13	1.8624E+12	3.3792E+10
I-131	8.3954E-03	6.7719E-11	3.1131E+14	2.8416E+12
I-132	6.2075E-03	6.0138E-13	2.7436E+12	2.8752E+12
I-133	1.6208E-02	1.4308E-11	6.4785E+13	5.6589E+12
I-134	3.0198E-03	1.1320E-13	5.0874E+11	2.5483E+12
I-135	1.2901E-02	3.6735E-12	1.6387E+13	4.8587E+12
Xe-133	8.1398E-01	4.3486E-09	1.9690E+16	1.2442E+14
Xe-133m	2.4656E-02	5.6003E-11	2.5358E+14	3.7864E+12
Xe-135	3.3185E-01	1.2995E-10	5.7968E+14	5.2291E+13
Xe-135m	5.3910E-03	5.9220E-14	2.6417E+11	3.3403E+12
Xe-138	6.5230E-04	6.7982E-15	2.9666E+10	2.9617E+12
Cs-134	1.9260E-03	1.4886E-09	6.6902E+15	6.5101E+11
Cs-136	5.8461E-04	7.9766E-12	3.5321E+13	1.9805E+11
Cs-137	1.4954E-03	1.7192E-08	7.5573E+16	5.0544E+11
Ba-139	2.0406E-05	1.2475E-15	5.4048E+09	8.7043E+09
Ba-140	6.6023E-05	9.0185E-13	3.8793E+12	1.7901E+10
La-140	2.6069E-06	4.6901E-15	2.0174E+10	4.3992E+08
La-141	4.0810E-07	7.2162E-17	3.0820E+08	1.2879E+08
La-142	2.0781E-07	1.4517E-17	6.1565E+07	8.4268E+07
Ce-141	1.5660E-06	5.4960E-14	2.3474E+11	4.2399E+08
Ce-143	1.4533E-06	2.1884E-15	9.2158E+09	4.0039E+08
Ce-144	1.2559E-06	3.9375E-13	1.6467E+12	3.3987E+08
Pr-143	6.0152E-07	8.9327E-15	3.7618E+10	1.6231E+08
Nd-147	2.4248E-07	2.9974E-15	1.2279E+10	6.5764E+07
Np-239	1.7356E-05	7.4815E-14	1.8851E+11	4.7462E+09
Pu-238	3.9030E-09	2.2799E-13	5.7687E+11	1.0562E+06
Pu-239	3.9372E-10	6.3343E-12	1.5961E+13	1.0653E+05
Pu-240	6.9532E-10	3.0528E-13	7.6602E+11	1.8816E+05
Pu-241	1.5448E-07	1.5621E-12	3.9033E+12	4.1802E+07
Am-241	8.7431E-11	2.5521E-14	6.3772E+10	2.3652E+04
Cm-242	2.3998E-08	7.2496E-15	1.8041E+10	6.4949E+06
Cm-244	1.5874E-09	1.9394E-14	4.7865E+10	4.2956E+05

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	1.4202E+17	0.0000E+00	
Elemental I (atoms)	1.9173E+13	0.0000E+00	
Organic I (atoms)	1.0049E+12	0.0000E+00	
Aerosols (kg)	1.8822E-08	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0666E-12	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3047E-12	
Total I (Ci)		4.6732E-02	

Deposition Recirculating

Time (h) =	2.4000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	5.2513E+12	
Organic I (atoms)	0.0000E+00	2.5433E+11	
Aerosols (kg)	0.0000E+00	5.0691E-09	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5379E+17
Elemental I (atoms)	1.9214E+14	1.9585E+12
Organic I (atoms)	9.6922E+12	9.8446E+10
Aerosols (kg)	1.8264E-07	1.8615E-09

CR Unfiltered Inleakage Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8480E+16
Elemental I (atoms)	0.0000E+00	3.5948E+13
Organic I (atoms)	0.0000E+00	1.8132E+12
Aerosols (kg)	0.0000E+00	3.4169E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	4.0005E+16	0.0000E+00
Elemental I (atoms)	1.2573E+13	0.0000E+00
Organic I (atoms)	6.0895E+11	0.0000E+00
Aerosols (kg)	1.2137E-08	0.0000E+00

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4904E-01	5.1159E-02	1.5146E-01
Accumulated dose (rem)	2.4532E-01	5.7327E+00	4.9064E-01

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1499E-02	2.4542E-02	7.2661E-02
Accumulated dose (rem)	1.0510E-01	8.1424E-01	1.4007E-01

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1859E-03	1.7772E+00	8.5953E-02
Accumulated dose (rem)	1.1000E-02	5.5947E+00	2.5561E-01

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	2.2810E+06	1.1237E-04	8.1530E+20	1.9768E+21
Kr-85m	1.2282E+07	1.4924E-03	1.0574E+22	7.1284E+21
Kr-85	1.1529E+06	2.9412E+00	2.0838E+25	5.1538E+20
Kr-87	5.1998E+06	1.8357E-04	1.2707E+21	6.3536E+21
Kr-88	2.3551E+07	1.8782E-03	1.2853E+22	1.6036E+22
Rb-86	5.7812E+01	7.1051E-07	4.9753E+18	6.2430E+17
Rb-88	2.8922E+07	2.3959E-04	1.6396E+21	6.3946E+21
Sr-89	3.1893E+03	1.0978E-04	7.4281E+20	1.9279E+19
Sr-90	3.4196E+02	2.5069E-03	1.6774E+22	2.0640E+18
Sr-91	2.9427E+03	8.1179E-07	5.3722E+18	2.1558E+19
Sr-92	1.4665E+03	1.1667E-07	7.6370E+17	1.7575E+19
Y-90	1.1210E+01	2.0604E-08	1.3786E+17	2.2892E+16
Y-91	4.1381E+01	1.6874E-06	1.1167E+19	2.4193E+17
Y-92	6.7947E+02	7.0613E-08	4.6222E+17	4.2179E+17
Y-93	3.3967E+01	1.0181E-08	6.5926E+16	2.4598E+17
Zr-95	4.7213E+01	2.1977E-06	1.3932E+19	2.8531E+17
Zr-97	3.8723E+01	2.0256E-08	1.2576E+17	2.6056E+17
Nb-95	4.6649E+01	1.1930E-06	7.5623E+18	2.8155E+17
Mo-99	5.7248E+02	1.1936E-06	7.2608E+18	3.5527E+18
Tc-99m	5.2244E+02	9.9357E-08	6.0439E+17	3.1593E+18
Ru-103	5.1538E+02	1.5969E-05	9.3366E+19	3.1168E+18
Ru-105	1.9720E+02	2.9336E-08	1.6825E+17	1.8050E+18
Ru-106	2.1482E+02	6.4211E-05	3.6480E+20	1.2969E+18
Rh-105	3.3740E+02	3.9974E-07	2.2927E+18	2.0644E+18
Sb-127	5.7714E+02	2.1611E-06	1.0248E+19	3.5533E+18
Sb-129	9.6720E+02	1.7200E-07	8.0293E+17	8.9572E+18
Te-127	5.8585E+02	2.2199E-07	1.0526E+18	3.5359E+18
Te-127m	1.0060E+02	1.0665E-05	5.0571E+19	6.0715E+17
Te-129	1.2212E+03	5.8314E-08	2.7223E+17	9.3982E+18
Te-129m	3.2978E+02	1.0947E-05	5.1103E+19	1.9912E+18
Te-131m	1.1395E+03	1.4290E-06	6.5693E+18	7.3117E+18
Te-132	8.6549E+03	2.8508E-05	1.3006E+20	5.3478E+19
I-131	6.0017E+04	4.8411E-04	2.2255E+21	3.2241E+20
I-132	5.0664E+04	4.9082E-06	2.2393E+19	4.5139E+20
I-133	1.1037E+05	9.7428E-05	4.4114E+20	6.4884E+20
I-134	6.1212E+03	2.2946E-07	1.0312E+18	4.0399E+20
I-135	7.8345E+04	2.2309E-05	9.9516E+19	5.7242E+20
Xe-133	1.3892E+08	7.4214E-01	3.3604E+24	6.2611E+22
Xe-133m	4.1667E+06	9.4643E-03	4.2853E+22	1.9001E+21
Xe-135	5.3086E+07	2.0788E-02	9.2730E+22	2.6468E+22

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Xe-135m	3.1881E+04	3.5022E-07	1.5623E+18	1.5726E+21
Xe-138	1.0336E+03	1.0772E-08	4.7009E+16	7.2175E+20
Cs-134	5.8162E+03	4.4953E-03	2.0203E+22	6.2513E+19
Cs-136	1.7593E+03	2.4004E-05	1.0629E+20	1.9037E+19
Cs-137	4.5161E+03	5.1920E-02	2.2823E+23	4.8534E+19
Ba-139	6.4644E+02	3.9521E-08	1.7122E+17	1.5281E+19
Ba-140	4.6596E+03	6.3648E-05	2.7378E+20	2.8293E+19
La-140	2.1296E+02	3.8313E-07	1.6480E+18	3.1978E+17
La-141	2.1799E+01	3.8546E-09	1.6463E+16	2.1072E+17
La-142	7.1691E+00	5.0081E-10	2.1239E+15	1.4619E+17
Ce-141	1.1086E+02	3.8906E-06	1.6617E+19	6.7010E+17
Ce-143	9.9534E+01	1.4988E-07	6.3119E+17	6.3511E+17
Ce-144	8.8939E+01	2.7885E-05	1.1662E+20	5.3696E+17
Pr-143	4.2641E+01	6.3324E-07	2.6667E+18	2.5580E+17
Nd-147	1.7103E+01	2.1141E-07	8.6610E+17	1.0395E+17
Np-239	1.2055E+03	5.1963E-06	1.3093E+19	7.5160E+18
Pu-238	2.7646E-01	1.6149E-05	4.0861E+19	1.6686E+15
Pu-239	2.7894E-02	4.4877E-04	1.1308E+21	1.6830E+14
Pu-240	4.9250E-02	2.1624E-05	5.4258E+19	2.9726E+14
Pu-241	1.0942E+01	1.1064E-04	2.7647E+20	6.6042E+16
Am-241	6.1945E-03	1.8082E-06	4.5183E+18	3.7361E+13
Cm-242	1.6993E+00	5.1336E-07	1.2775E+18	1.0262E+16
Cm-244	1.1244E-01	1.3737E-06	3.3903E+18	6.7865E+14

DW Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)		2.4359E+25	0.0000E+00
Elemental I (atoms)		1.3078E+19	7.8121E+22
Organic I (atoms)		1.3997E+21	0.0000E+00
Aerosols (kg)		6.0442E-02	6.5810E+01
Dose Effective (Ci/cc) I-131 (Thyroid)			9.3378E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.1299E-05
Total I (Ci)			3.0551E+05

DW to WW Transport Group Inventory:

Time (h) = 4.0000 Leakage Transport

Noble gases (atoms)	1.7704E+27
Elemental I (atoms)	6.5918E+21
Organic I (atoms)	1.0317E+23
Aerosols (kg)	8.6405E+00

WW to DW Transport Group Inventory:

Time (h) = 4.0000 Leakage Transport

Noble gases (atoms)	1.9124E+27
Elemental I (atoms)	1.0715E+22
Organic I (atoms)	1.1156E+23
Aerosols (kg)	1.1994E+01

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.2921E+22
Elemental I (atoms)	0.0000E+00	4.7005E+18
Organic I (atoms)	0.0000E+00	2.7148E+18
Aerosols (kg)	0.0000E+00	4.2776E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.8665E+21
Elemental I (atoms)	0.0000E+00	2.6461E+17
Organic I (atoms)	0.0000E+00	2.4112E+17
Aerosols (kg)	0.0000E+00	2.3486E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0484E+22
Elemental I (atoms)	0.0000E+00	7.1752E+17
Organic I (atoms)	0.0000E+00	6.5381E+17
Aerosols (kg)	0.0000E+00	6.3685E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

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	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0484E+22
Elemental I (atoms)	0.0000E+00	7.1752E+17
Organic I (atoms)	0.0000E+00	6.5381E+17
Aerosols (kg)	0.0000E+00	6.3685E-04

RB Compartment Nuclide Inventory:

Time (h) = 4.0000	Ci	kg	Atoms	Decay
Kr-83m	4.4477E+03	2.1911E-07	1.5897E+18	1.4749E+18
Kr-85m	2.3948E+04	2.9101E-06	2.0617E+19	6.0932E+18
Kr-85	2.2479E+03	5.7350E-03	4.0632E+22	4.8252E+17
Kr-87	1.0139E+04	3.5794E-07	2.4777E+18	4.2419E+18
Kr-88	4.5921E+04	3.6622E-06	2.5062E+19	1.2976E+19
Rb-86	2.7964E+00	3.4368E-08	2.4066E+17	1.6061E+15
Rb-88	5.6626E+04	4.6908E-07	3.2101E+18	1.1650E+19
Sr-89	5.7857E+01	1.9915E-06	1.3475E+19	2.3879E+16
Sr-90	6.2035E+00	4.5478E-05	3.0431E+20	2.5581E+15
Sr-91	5.3384E+01	1.4727E-08	9.7457E+16	2.4537E+16
Sr-92	2.6603E+01	2.1165E-09	1.3854E+16	1.6319E+16
Y-90	2.4161E-01	4.4408E-10	2.9714E+15	6.1933E+13
Y-91	7.5850E-01	3.0929E-08	2.0468E+17	3.0619E+14
Y-92	1.5914E+01	1.6539E-09	1.0826E+16	4.1605E+15
Y-93	6.1620E-01	1.8469E-10	1.1960E+15	2.8137E+14
Zr-95	8.5650E-01	3.9869E-08	2.5273E+17	3.5343E+14
Zr-97	7.0247E-01	3.6746E-10	2.2813E+15	3.0775E+14
Nb-95	8.4626E-01	2.1642E-08	1.3719E+17	3.4896E+14
Mo-99	1.0385E+01	2.1654E-08	1.3172E+17	4.3490E+15
Tc-99m	9.4777E+00	1.8024E-09	1.0964E+16	3.9024E+15
Ru-103	9.3495E+00	2.8969E-07	1.6937E+18	3.8596E+15
Ru-105	3.5774E+00	5.3219E-10	3.0523E+15	1.8693E+15
Ru-106	3.8971E+00	1.1648E-06	6.6178E+18	1.6072E+15
Rh-105	6.1208E+00	7.2517E-09	4.1591E+16	2.5455E+15
Sb-127	1.0470E+01	3.9205E-08	1.8591E+17	4.3651E+15
Sb-129	1.7546E+01	3.1202E-09	1.4566E+16	9.2314E+15
Te-127	1.0628E+01	4.0271E-09	1.9096E+16	4.3747E+15
Te-127m	1.8249E+00	1.9347E-07	9.1741E+17	7.5252E+14
Te-129	2.2154E+01	1.0579E-09	4.9385E+15	1.0432E+16
Te-129m	5.9825E+00	1.9859E-07	9.2706E+17	2.4676E+15
Te-131m	2.0672E+01	2.5924E-08	1.1917E+17	8.8187E+15
Te-132	1.5701E+02	5.1717E-07	2.3594E+18	6.5591E+16
I-131	1.3765E+03	1.1103E-05	5.1041E+19	7.5470E+17
I-132	8.4171E+02	8.1544E-08	3.7202E+17	7.1785E+17
I-133	2.5329E+03	2.2360E-06	1.0124E+19	1.4698E+18
I-134	1.4048E+02	5.2661E-09	2.3666E+16	4.7801E+17
I-135	1.7980E+03	5.1199E-07	2.2839E+18	1.2004E+18
Xe-133	2.7082E+05	1.4468E-03	6.5511E+21	5.8437E+19
Xe-133m	8.1210E+03	1.8446E-05	8.3523E+19	1.7656E+18
Xe-135	1.0297E+05	4.0323E-05	1.7987E+20	2.3708E+19
Xe-135m	3.5018E+02	3.8468E-09	1.7160E+16	4.9589E+17
Xe-138	2.0155E+00	2.1005E-11	9.1663E+13	1.8688E+17
Cs-134	2.8134E+02	2.1744E-04	9.7722E+20	1.6111E+17
Cs-136	8.5098E+01	1.1611E-06	5.1414E+18	4.8937E+16
Cs-137	2.1845E+02	2.5114E-03	1.1040E+22	1.2509E+17
Ba-139	1.1727E+01	7.1695E-10	3.1062E+15	1.1037E+16
Ba-140	8.4529E+01	1.1546E-06	4.9667E+18	3.4973E+16
La-140	4.6830E+00	8.4254E-09	3.6242E+16	1.1221E+15
La-141	3.9545E-01	6.9926E-11	2.9865E+14	2.1336E+14
La-142	1.3006E-01	9.0852E-12	3.8530E+13	1.1121E+14
Ce-141	2.0106E+00	7.0563E-08	3.0138E+17	8.2988E+14
Ce-143	1.8056E+00	2.7190E-09	1.1451E+16	7.6791E+14
Ce-144	1.6135E+00	5.0587E-07	2.1156E+18	6.6544E+14
Pr-143	7.7499E-01	1.1509E-08	4.8467E+16	3.1824E+14
Nd-147	3.1027E-01	3.8353E-09	1.5712E+16	1.2844E+14
Np-239	2.1869E+01	9.4266E-08	2.3752E+17	9.1816E+15
Pu-238	5.0153E-03	2.9295E-07	7.4126E+17	2.0681E+12
Pu-239	5.0602E-04	8.1411E-06	2.0513E+19	2.0862E+11
Pu-240	8.9345E-04	3.9227E-07	9.8430E+17	3.6843E+11
Pu-241	1.9849E-01	2.0072E-06	5.0155E+18	8.1853E+13
Am-241	1.1239E-04	3.2806E-08	8.1976E+16	4.6324E+10
Cm-242	3.0827E-02	9.3128E-09	2.3175E+16	1.2716E+13
Cm-244	2.0397E-03	2.4920E-08	6.1504E+16	8.4113E+11

RB Transport Group Inventory:

Time (h) = 4.0000	Atmosphere	Sump
Noble gases (atoms)	4.7496E+22	0.0000E+00

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Elemental I (atoms)	2.8947E+18	0.0000E+00
Organic I (atoms)	2.8478E+18	0.0000E+00
Aerosols (kg)	2.8060E-03	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.3773E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.0700E-08
Total I (Ci)		6.6896E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2921E+22
Elemental I (atoms)	0.0000E+00	4.7005E+18
Organic I (atoms)	0.0000E+00	2.7148E+18
Aerosols (kg)	0.0000E+00	4.2776E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4633E+22
Elemental I (atoms)	0.0000E+00	8.1993E+16
Organic I (atoms)	0.0000E+00	8.5366E+17
Aerosols (kg)	0.0000E+00	9.1779E-05

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0015E+22
Elemental I (atoms)	1.3790E+18	1.3930E+16
Organic I (atoms)	6.3573E+17	6.4215E+15
Aerosols (kg)	1.2933E-03	1.3064E-05

Environment Integral Nuclide Release:

Time (h) = 4.0000	Ci	kg	Atoms	Bq
Kr-83m	1.4156E+03	6.9736E-08	5.0597E+17	5.2377E+13
Kr-85m	5.9502E+03	7.2303E-07	5.1226E+18	2.2016E+14
Kr-85	4.7659E+02	1.2159E-03	8.6144E+21	1.7634E+13
Kr-87	4.0107E+03	1.4159E-07	9.8011E+17	1.4840E+14
Kr-88	1.2584E+04	1.0036E-06	6.8678E+18	4.6561E+14
Rb-86	2.1426E-01	2.6332E-09	1.8439E+16	7.9274E+09
Rb-88	3.1146E+03	2.5801E-08	1.7656E+17	1.1524E+14
Sr-89	6.5769E-01	2.2638E-08	1.5318E+17	2.4335E+10
Sr-90	7.0418E-02	5.1623E-07	3.4543E+18	2.6055E+09
Sr-91	7.2936E-01	2.0120E-10	1.3315E+15	2.6986E+10
Sr-92	5.8998E-01	4.6938E-11	3.0725E+14	2.1829E+10
Y-90	1.2160E-03	2.2350E-12	1.4955E+13	4.4992E+07
Y-91	8.3386E-03	3.4002E-10	2.2502E+15	3.0853E+08
Y-92	6.7391E-02	7.0036E-12	4.5844E+13	2.4935E+09
Y-93	8.3255E-03	2.4954E-12	1.6159E+13	3.0804E+08
Zr-95	9.7333E-03	4.5307E-10	2.8721E+15	3.6013E+08
Zr-97	8.8440E-03	4.6263E-12	2.8722E+13	3.2723E+08
Nb-95	9.6060E-03	2.4566E-10	1.5572E+15	3.5542E+08
Mo-99	1.2104E-01	2.5236E-10	1.5351E+15	4.4784E+09
Tc-99m	1.0818E-01	2.0574E-11	1.2515E+14	4.0028E+09
Ru-103	1.0632E-01	3.2944E-09	1.9262E+16	3.9340E+09
Ru-105	6.0722E-02	9.0333E-12	5.1809E+13	2.2467E+09
Ru-106	4.4245E-02	1.3225E-08	7.5135E+16	1.6371E+09
Rh-105	7.0394E-02	8.3400E-11	4.7833E+14	2.6046E+09
Sb-127	1.2110E-01	4.5349E-10	2.1504E+15	4.4809E+09
Sb-129	3.0126E-01	5.3573E-11	2.5010E+14	1.1147E+10
Te-127	1.2094E-01	4.5825E-11	2.1729E+14	4.4747E+09
Te-127m	2.0715E-02	2.1961E-09	1.0413E+16	7.6644E+08
Te-129	3.2183E-01	1.5367E-11	7.1740E+13	1.1908E+10
Te-129m	6.7934E-02	2.2551E-09	1.0527E+16	2.5136E+09
Te-131m	2.4870E-01	3.1189E-10	1.4338E+15	9.2019E+09
Te-132	1.8223E+00	6.0026E-09	2.7385E+16	6.7426E+10

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I-131	9.4472E+01	7.6203E-07	3.5031E+18	3.4955E+12
I-132	1.1690E+02	1.1325E-08	5.1669E+16	4.3254E+12
I-133	1.9185E+02	1.6935E-07	7.6682E+17	7.0983E+12
I-134	1.3890E+02	5.2067E-09	2.3399E+16	5.1392E+12
I-135	1.7266E+02	4.9164E-08	2.1931E+17	6.3882E+12
Xe-133	5.7697E+04	3.0824E-04	1.3957E+21	2.1348E+15
Xe-133m	1.7423E+03	3.9575E-06	1.7919E+19	6.4466E+13
Xe-135	2.3295E+04	9.1218E-06	4.0691E+19	8.6190E+14
Xe-135m	3.9586E+02	4.3486E-09	1.9398E+16	1.4647E+13
Xe-138	1.3096E+02	1.3649E-09	5.9562E+15	4.8457E+12
Cs-134	2.1448E+01	1.6577E-05	7.4499E+19	7.9357E+11
Cs-136	6.5342E+00	8.9154E-08	3.9478E+17	2.4177E+11
Cs-137	1.6652E+01	1.9144E-04	8.4151E+20	6.1611E+11
Ba-139	5.1901E-01	3.1730E-11	1.3747E+14	1.9203E+10
Ba-140	9.6498E-01	1.3181E-08	5.6699E+16	3.5704E+10
La-140	2.0331E-02	3.6577E-11	1.5734E+14	7.5224E+08
La-141	7.0830E-03	1.2524E-12	5.3492E+12	2.6207E+08
La-142	4.9449E-03	3.4543E-13	1.4650E+12	1.8296E+08
Ce-141	2.2856E-02	8.0215E-10	3.4260E+15	8.4567E+08
Ce-143	2.1608E-02	3.2539E-11	1.3703E+14	7.9951E+08
Ce-144	1.8319E-02	5.7437E-09	2.4020E+16	6.7782E+08
Pr-143	8.7435E-03	1.2984E-10	5.4681E+14	3.2351E+08
Nd-147	3.5452E-03	4.3823E-11	1.7953E+14	1.3117E+08
Np-239	2.5600E-01	1.1035E-09	2.7805E+15	9.4721E+09
Pu-238	5.6929E-05	3.3253E-09	8.4141E+15	2.1064E+06
Pu-239	5.7419E-06	9.2378E-08	2.3277E+17	2.1245E+05
Pu-240	1.0142E-05	4.4528E-09	1.1173E+16	3.7525E+05
Pu-241	2.2532E-03	2.2784E-08	5.6933E+16	8.3367E+07
Am-241	1.2748E-06	3.7212E-10	9.2986E+14	4.7168E+04
Cm-242	3.5008E-04	1.0576E-10	2.6318E+14	1.2953E+07
Cm-244	2.3154E-05	2.8287E-10	6.9816E+14	8.5669E+05

Environment Transport Group Inventory:

	Total	Release
Time (h) = 4.0000	Release	Rate/s
Noble gases (atoms)	1.0082E+22	7.0016E+17
Elemental I (atoms)	2.2080E+17	1.5333E+13
Organic I (atoms)	1.6793E+16	1.1662E+12
Aerosols (kg)	2.0979E-04	1.4569E-08
Dose Effective (Ci) I-131 (Thyroid)		1.3224E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.6670E+02
Total I (Ci)		7.1477E+02

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7618E+17
Elemental I (atoms)	1.9235E+14	1.9605E+12
Organic I (atoms)	9.8282E+12	9.9819E+10
Aerosols (kg)	1.8283E-07	1.8634E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.9664E+16
Elemental I (atoms)	0.0000E+00	3.5985E+13
Organic I (atoms)	0.0000E+00	1.8386E+12
Aerosols (kg)	0.0000E+00	3.4204E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	1.2878E+17	0.0000E+00
Elemental I (atoms)	1.8409E+13	0.0000E+00
Organic I (atoms)	9.1851E+11	0.0000E+00
Aerosols (kg)	1.7923E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16

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Aerosols (kg) 0.0000E+00 1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0015E+22
Elemental I (atoms)	1.3790E+18	1.3930E+16
Organic I (atoms)	6.3573E+17	6.4215E+15
Aerosols (kg)	1.2933E-03	1.3064E-05

CR Compartment Nuclide Inventory:

Time (h) = 4.0000	Ci	kg	Atoms	Decay
Kr-83m	2.9628E-02	1.4595E-12	1.0590E+13	1.0844E+13
Kr-85m	1.5953E-01	1.9385E-11	1.3734E+14	4.2743E+13
Kr-85	1.4974E-02	3.8203E-08	2.7066E+17	3.2972E+12
Kr-87	6.7539E-02	2.3844E-12	1.6505E+13	3.2646E+13
Kr-88	3.0590E-01	2.4395E-11	1.6694E+14	9.2658E+13
Rb-86	1.0838E-05	1.3320E-13	9.3270E+11	9.5569E+09
Rb-88	2.8621E-01	2.3709E-12	1.6225E+13	6.6141E+13
Sr-89	2.5997E-05	8.9485E-13	6.0549E+12	1.9457E+10
Sr-90	2.7874E-06	2.0435E-11	1.3673E+14	2.0840E+09
Sr-91	2.3987E-05	6.6172E-15	4.3791E+10	2.0589E+10
Sr-92	1.1954E-05	9.5102E-16	6.2252E+09	1.4762E+10
Y-90	1.2660E-07	2.3269E-16	1.5570E+09	5.3320E+07
Y-91	3.4460E-07	1.4052E-14	9.2990E+10	2.5021E+08
Y-92	8.8763E-06	9.2247E-16	6.0383E+09	4.0391E+09
Y-93	2.7688E-07	8.2989E-17	5.3739E+08	2.3569E+08
Zr-95	3.8485E-07	1.7914E-14	1.1356E+11	2.8798E+08
Zr-97	3.1564E-07	1.6511E-16	1.0251E+09	2.5490E+08
Nb-95	3.8025E-07	9.7243E-15	6.1643E+10	2.8428E+08
Mo-99	4.6665E-06	9.7297E-15	5.9185E+10	3.5580E+09
Tc-99m	4.2586E-06	8.0990E-16	4.9266E+09	3.1823E+09
Ru-103	4.2010E-06	1.3017E-13	7.6106E+11	3.1452E+09
Ru-105	1.6074E-06	2.3913E-16	1.3715E+09	1.6230E+09
Ru-106	1.7511E-06	5.2340E-13	2.9736E+12	1.3094E+09
Rh-105	2.7503E-06	3.2584E-15	1.8688E+10	2.0776E+09
Sb-127	4.7045E-06	1.7616E-14	8.3534E+10	3.5669E+09
Sb-129	7.8840E-06	1.4020E-15	6.5450E+09	8.0290E+09
Te-127	4.7755E-06	1.8095E-15	8.5804E+09	3.5657E+09
Te-127m	8.2000E-07	8.6933E-14	4.1222E+11	6.1305E+08
Te-129	9.9546E-06	4.7534E-16	2.2190E+09	8.8310E+09
Te-129m	2.6881E-06	8.9231E-14	4.1656E+11	2.0104E+09
Te-131m	9.2885E-06	1.1648E-14	5.3549E+10	7.2516E+09
Te-132	7.0549E-05	2.3238E-13	1.0602E+12	5.3626E+10
I-131	4.7271E-03	3.8130E-11	1.7528E+14	4.1785E+12
I-132	2.1995E-03	2.1308E-13	9.7213E+11	3.6831E+12
I-133	8.7022E-03	7.6819E-12	3.4783E+13	8.1852E+12
I-134	4.8264E-04	1.8092E-14	8.1308E+10	2.8379E+12
I-135	6.1773E-03	1.7590E-12	7.8466E+12	6.7699E+12
Xe-133	1.8030E+00	9.6325E-09	4.3615E+16	3.9925E+14
Xe-133m	5.4029E-02	1.2272E-10	5.5568E+14	1.2062E+13
Xe-135	6.7592E-01	2.6468E-10	1.1807E+15	1.5950E+14
Xe-135m	1.7558E-03	1.9288E-14	8.6040E+10	3.9855E+12
Xe-138	1.3426E-05	1.3992E-16	6.1060E+08	2.9979E+12
Cs-134	1.0903E-03	8.4272E-10	3.7873E+15	9.5848E+11
Cs-136	3.2981E-04	4.4999E-12	1.9926E+13	2.9123E+11
Cs-137	8.4662E-04	9.7332E-09	4.2785E+16	7.4417E+11
Ba-139	5.2694E-06	3.2215E-16	1.3957E+09	1.1044E+10
Ba-140	3.7982E-05	5.1881E-13	2.2317E+12	2.8517E+10
La-140	2.4903E-06	4.4803E-15	1.9272E+10	9.7632E+08
La-141	1.7769E-07	3.1420E-17	1.3419E+08	1.8679E+08
La-142	5.8438E-08	4.0823E-18	1.7313E+07	1.0891E+08
Ce-141	9.0318E-07	3.1698E-14	1.3538E+11	6.7609E+08
Ce-143	8.1134E-07	1.2217E-15	5.1451E+09	6.3092E+08
Ce-144	7.2498E-07	2.2730E-13	9.5059E+11	5.4213E+08
Pr-143	3.4891E-07	5.1814E-15	2.1820E+10	2.5938E+08
Nd-147	1.3941E-07	1.7233E-15	7.0599E+09	1.0474E+08
Np-239	9.8264E-06	4.2357E-14	1.0673E+11	7.5170E+09
Pu-238	2.2535E-09	1.3163E-13	3.3307E+11	1.6848E+06
Pu-239	2.2737E-10	3.6581E-12	9.2173E+12	1.6995E+05
Pu-240	4.0146E-10	1.7626E-13	4.4228E+11	3.0015E+05
Pu-241	8.9190E-08	9.0189E-13	2.2536E+12	6.6683E+07
Am-241	5.0506E-11	1.4743E-14	3.6839E+10	3.7737E+04
Cm-242	1.3852E-08	4.1845E-15	1.0413E+10	1.0360E+07
Cm-244	9.1652E-10	1.1197E-14	2.7636E+10	6.8523E+05

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CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)		3.1634E+17	0.0000E+00
Elemental I (atoms)		1.0608E+13	0.0000E+00
Organic I (atoms)		5.7520E+11	0.0000E+00
Aerosols (kg)		1.0657E-08	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		5.9025E-13
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		7.0950E-13
Total I (Ci)			2.2289E-02

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.6887E+12
Organic I (atoms)	0.0000E+00	3.8362E+11
Aerosols (kg)	0.0000E+00	7.4858E-09

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.7618E+17
Elemental I (atoms)	1.9235E+14	1.9605E+12
Organic I (atoms)	9.8282E+12	9.9819E+10
Aerosols (kg)	1.8283E-07	1.8634E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.9664E+16
Elemental I (atoms)	0.0000E+00	3.5985E+13
Organic I (atoms)	0.0000E+00	1.8386E+12
Aerosols (kg)	0.0000E+00	3.4204E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	1.2878E+17	0.0000E+00
Elemental I (atoms)	1.8409E+13	0.0000E+00
Organic I (atoms)	9.1851E+11	0.0000E+00
Aerosols (kg)	1.7923E-08	0.0000E+00

EAB Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1406E-01	5.2193E-02	2.1657E-01
Accumulated dose (rem)		4.5938E-01	5.7849E+00	7.0722E-01

LPZ Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0269E-01	2.5038E-02	1.0390E-01
Accumulated dose (rem)		2.0779E-01	8.3928E-01	2.4396E-01

CR Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0898E-02	1.1537E+00	6.7016E-02
Accumulated dose (rem)		2.1898E-02	6.7484E+00	3.2262E-01

DW Compartment Nuclide Inventory:

Time (h) =	6.0000	Ci	kg	Atoms	Decay
Kr-83m		1.0810E+06	5.3253E-05	3.8638E+20	2.4049E+21
Kr-85m		9.0005E+06	1.0937E-03	7.7486E+21	9.9405E+21
Kr-85		1.1513E+06	2.9371E+00	2.0809E+25	8.2228E+20
Kr-87		1.7455E+06	6.1624E-05	4.2656E+20	7.1966E+21
Kr-88		1.4434E+07	1.1511E-03	7.8776E+21	2.0997E+22
Rb-86		5.7552E+01	7.0731E-07	4.9530E+18	6.3966E+17
Rb-88		1.8077E+07	1.4975E-04	1.0248E+21	1.1968E+22
Sr-89		3.1812E+03	1.0950E-04	7.4092E+20	2.0128E+19
Sr-90		3.4148E+02	2.5034E-03	1.6751E+22	2.1550E+18
Sr-91		2.5396E+03	7.0058E-07	4.6362E+18	2.2287E+19
Sr-92		8.7801E+02	6.9853E-08	4.5724E+17	1.7880E+19
Y-90		1.8275E+01	3.3590E-08	2.2476E+17	2.6774E+16
Y-91		4.2415E+01	1.7296E-06	1.1446E+19	2.5309E+17

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Y-92	8.2756E+02	8.6004E-08	5.6297E+17	6.2591E+17
Y-93	2.9569E+01	8.8628E-09	5.7390E+16	2.5443E+17
Zr-95	4.7105E+01	2.1927E-06	1.3899E+19	2.9787E+17
Zr-97	3.5623E+01	1.8634E-08	1.1569E+17	2.7045E+17
Nb-95	4.6583E+01	1.1913E-06	7.5517E+18	2.9397E+17
Mo-99	5.5979E+02	1.1672E-06	7.0999E+18	3.7035E+18
Tc-99m	5.1735E+02	9.8388E-08	5.9849E+17	3.2970E+18
Ru-103	5.1390E+02	1.5923E-05	9.3097E+19	3.2538E+18
Ru-105	1.4411E+02	2.1438E-08	1.2296E+17	1.8501E+18
Ru-106	2.1449E+02	6.4110E-05	3.6423E+20	1.3541E+18
Rh-105	3.3048E+02	3.9154E-07	2.2456E+18	2.1534E+18
Sb-127	5.6775E+02	2.1260E-06	1.0081E+19	3.7058E+18
Sb-129	7.0071E+02	1.2461E-07	5.8171E+17	9.1774E+18
Te-127	5.8289E+02	2.2087E-07	1.0473E+18	3.6911E+18
Te-127m	1.0046E+02	1.0650E-05	5.0500E+19	6.3393E+17
Te-129	9.6570E+02	4.6112E-08	2.1527E+17	9.6814E+18
Te-129m	3.2906E+02	1.0923E-05	5.0992E+19	2.0790E+18
Te-131m	1.0865E+03	1.3626E-06	6.2638E+18	7.6081E+18
Te-132	8.4909E+03	2.7968E-05	1.2760E+20	5.5762E+19
I-131	5.9510E+04	4.8002E-04	2.2067E+21	3.3833E+20
I-132	3.1623E+04	3.0636E-06	1.3977E+19	4.6206E+20
I-133	1.0311E+05	9.1018E-05	4.1212E+20	6.7727E+20
I-134	1.2574E+03	4.7133E-08	2.1182E+17	4.0481E+20
I-135	6.3433E+04	1.8063E-05	8.0574E+19	5.9124E+20
Xe-133	1.3725E+08	7.3323E-01	3.3200E+24	9.9394E+22
Xe-133m	4.0545E+06	9.2095E-03	4.1700E+22	2.9951E+21
Xe-135	4.5524E+07	1.7826E-02	7.9520E+22	3.9576E+22
Xe-135m	1.1383E+04	1.2505E-07	5.5781E+17	1.5764E+21
Xe-138	2.9501E+00	3.0746E-11	1.3417E+14	7.2179E+20
Cs-134	5.8076E+03	4.4887E-03	2.0173E+22	6.4061E+19
Cs-136	1.7491E+03	2.3865E-05	1.0567E+20	1.9504E+19
Cs-137	4.5097E+03	5.1847E-02	2.2790E+23	4.9736E+19
Ba-139	2.3611E+02	1.4435E-08	6.2539E+16	1.5389E+19
Ba-140	4.6320E+03	6.3271E-05	2.7216E+20	2.9531E+19
La-140	3.6268E+02	6.5251E-07	2.8068E+18	3.9553E+17
La-141	1.5298E+01	2.7050E-09	1.1553E+16	2.1561E+17
La-142	2.9129E+00	2.0349E-10	8.6298E+14	1.4745E+17
Ce-141	1.1054E+02	3.8794E-06	1.6569E+19	6.9959E+17
Ce-143	9.5305E+01	1.4351E-07	6.0438E+17	6.6106E+17
Ce-144	8.8796E+01	2.7840E-05	1.1643E+20	5.6064E+17
Pr-143	4.2814E+01	6.3580E-07	2.6775E+18	2.6718E+17
Nd-147	1.6989E+01	2.1001E-07	8.6035E+17	1.0849E+17
Np-239	1.1746E+03	5.0633E-06	1.2758E+19	7.8330E+18
Pu-238	2.7608E-01	1.6126E-05	4.0804E+19	1.7422E+15
Pu-239	2.7862E-02	4.4826E-04	1.1295E+21	1.7572E+14
Pu-240	4.9181E-02	2.1593E-05	5.4182E+19	3.1037E+14
Pu-241	1.0926E+01	1.1049E-04	2.7608E+20	6.8955E+16
Am-241	6.1898E-03	1.8068E-06	4.5149E+18	3.9011E+13
Cm-242	1.6963E+00	5.1245E-07	1.2752E+18	1.0714E+16
Cm-244	1.1228E-01	1.3717E-06	3.3855E+18	7.0858E+14

DW Transport Group Inventory:

Time (h) =	6.0000	Atmosphere	Sump	
Noble gases (atoms)	2.4267E+25	0.0000E+00		
Elemental I (atoms)	1.2722E+19	7.8121E+22		
Organic I (atoms)	1.3616E+21	0.0000E+00		
Aerosols (kg)	6.0258E-02	6.5810E+01		
Dose Effective (Ci/cc) I-131 (Thyroid)			9.0765E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.0785E-05	
Total I (Ci)			2.5893E+05	

DW to WW Transport Group Inventory:

Time (h) = 6.0000 Leakage Transport

Noble gases (atoms)	3.5881E+27
Elemental I (atoms)	7.5564E+21
Organic I (atoms)	2.0641E+23
Aerosols (kg)	1.3152E+01

WW to DW Transport Group Inventory:

Time (h) = 6.0000 Leakage Transport

Noble gases (atoms)	3.7301E+27
Elemental I (atoms)	1.1680E+22
Organic I (atoms)	2.1480E+23
Aerosols (kg)	1.6506E+01

DW to RB Transport Group Inventory:

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	Pathway	
Time (h) =	6.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.9125E+22
Elemental I (atoms)	0.0000E+00	4.7144E+18
Organic I (atoms)	0.0000E+00	4.2032E+18
Aerosols (kg)	0.0000E+00	4.3426E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.2420E+21
Elemental I (atoms)	0.0000E+00	2.6587E+17
Organic I (atoms)	0.0000E+00	3.7604E+17
Aerosols (kg)	0.0000E+00	2.4076E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6926E+22
Elemental I (atoms)	0.0000E+00	7.2093E+17
Organic I (atoms)	0.0000E+00	1.0197E+18
Aerosols (kg)	0.0000E+00	6.5283E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6926E+22
Elemental I (atoms)	0.0000E+00	7.2093E+17
Organic I (atoms)	0.0000E+00	1.0197E+18
Aerosols (kg)	0.0000E+00	6.5283E-04

RB Compartment Nuclide Inventory:

Time (h) =	6.0000	Ci	kg	Atoms	Decay
Kr-83m		3.1702E+03	1.5617E-07	1.1331E+18	2.5143E+18
Kr-85m		2.6396E+04	3.2074E-06	2.2724E+19	1.3019E+19
Kr-85		3.3763E+03	8.6136E-03	6.1026E+22	1.2460E+18
Kr-87		5.1191E+03	1.8072E-07	1.2510E+18	6.2657E+18
Kr-88		4.2331E+04	3.3759E-06	2.3103E+19	2.5121E+19
Rb-86		2.2067E+00	2.7120E-08	1.8991E+17	2.2650E+15
Rb-88		5.3016E+04	4.3918E-07	3.0055E+18	2.5317E+19
Sr-89		4.8619E+01	1.6735E-06	1.1324E+19	3.7945E+16
Sr-90		5.2189E+00	3.8260E-05	2.5601E+20	4.0671E+15
Sr-91		3.8813E+01	1.0707E-08	7.0857E+16	3.6644E+16
Sr-92		1.3419E+01	1.0676E-09	6.9882E+15	2.1421E+16
Y-90		3.0782E-01	5.6578E-10	3.7857E+15	1.3461E+14
Y-91		6.5419E-01	2.6676E-08	1.7653E+17	4.9288E+14
Y-92		1.4495E+01	1.5064E-09	9.8607E+15	8.2283E+15
Y-93		4.5191E-01	1.3545E-10	8.7711E+14	4.2170E+14
Zr-95		7.1991E-01	3.3511E-08	2.1243E+17	5.6168E+14
Zr-97		5.4443E-01	2.8479E-10	1.7681E+15	4.7199E+14
Nb-95		7.1195E-01	1.8207E-08	1.1542E+17	5.5480E+14
Mo-99		8.5555E+00	1.7838E-08	1.0851E+17	6.8497E+15
Tc-99m		7.9068E+00	1.5037E-09	9.1469E+15	6.1863E+15
Ru-103		7.8540E+00	2.4336E-07	1.4228E+18	6.1322E+15
Ru-105		2.2025E+00	3.2765E-10	1.8792E+15	2.6201E+15
Ru-106		3.2781E+00	9.7982E-07	5.5666E+18	2.5551E+15
Rh-105		5.0508E+00	5.9840E-09	3.4320E+16	4.0205E+15
Sb-127		8.6770E+00	3.2492E-08	1.5407E+17	6.8935E+15
Sb-129		1.0709E+01	1.9044E-09	8.8904E+15	1.2899E+16
Te-127		8.9085E+00	3.3756E-09	1.6006E+16	6.9463E+15
Te-127m		1.5353E+00	1.6277E-07	7.7181E+17	1.1964E+15
Te-129		1.4759E+01	7.0475E-10	3.2900E+15	1.5143E+16
Te-129m		5.0291E+00	1.6694E-07	7.7933E+17	3.9223E+15
Te-131m		1.6606E+01	2.0825E-08	9.5731E+16	1.3736E+16
Te-132		1.2977E+02	4.2744E-07	1.9501E+18	1.0346E+17
I-131		1.1271E+03	9.0913E-06	4.1793E+19	1.0851E+18
I-132		4.5104E+02	4.3697E-08	1.9935E+17	8.8233E+17
I-133		1.9540E+03	1.7249E-06	7.8104E+18	2.0605E+18
I-134		2.3829E+01	8.9326E-10	4.0144E+15	4.9542E+17
I-135		1.2022E+03	3.4232E-07	1.5270E+18	1.5923E+18
Xe-133		4.0248E+05	2.1502E-03	9.7360E+21	1.4991E+20
Xe-133m		1.1889E+04	2.7005E-05	1.2228E+20	4.4868E+18
Xe-135		1.3331E+05	5.2204E-05	2.3287E+20	5.6066E+19

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Xe-135m	2.1447E+02	2.3559E-09	1.0510E+16	5.5903E+17
Xe-138	8.6518E-03	9.0167E-14	3.9348E+11	1.8698E+17
Cs-134	2.2268E+02	1.7211E-04	7.7348E+20	2.2750E+17
Cs-136	6.7065E+01	9.1505E-07	4.0519E+18	6.8977E+16
Cs-137	1.7292E+02	1.9880E-03	8.7385E+21	1.7664E+17
Ba-139	3.6086E+00	2.2061E-10	9.5580E+14	1.2861E+16
Ba-140	7.0792E+01	9.6698E-07	4.1595E+18	5.5489E+16
La-140	6.1463E+00	1.1058E-08	4.7566E+16	2.5551E+15
La-141	2.3380E-01	4.1341E-11	1.7657E+14	2.9483E+14
La-142	4.4519E-02	3.1100E-12	1.3189E+13	1.3234E+14
Ce-141	1.6890E+00	5.9277E-08	2.5317E+17	1.3186E+15
Ce-143	1.4566E+00	2.1934E-09	9.2369E+15	1.1983E+15
Ce-144	1.3571E+00	4.2549E-07	1.7794E+18	1.0579E+15
Pr-143	6.5543E-01	9.7333E-09	4.0990E+16	5.0720E+14
Nd-147	2.5966E-01	3.2096E-09	1.3149E+16	2.0372E+14
Np-239	1.7952E+01	7.7383E-08	1.9498E+17	1.4438E+16
Pu-238	4.2193E-03	2.4646E-07	6.2362E+17	3.2881E+12
Pu-239	4.2583E-04	6.8509E-06	1.7262E+19	3.3173E+11
Pu-240	7.5165E-04	3.3001E-07	8.2808E+17	5.8576E+11
Pu-241	1.6699E-01	1.6886E-06	4.2195E+18	1.3014E+14
Am-241	9.4611E-05	2.7617E-08	6.9009E+16	7.3670E+10
Cm-242	2.5926E-02	7.8320E-09	1.9490E+16	2.0213E+13
Cm-244	1.7160E-03	2.0965E-08	5.1742E+16	1.3373E+12

RB Transport Group Inventory:

Time (h) =	6.0000	Atmosphere	Sump	
Noble gases (atoms)		7.1165E+22	0.0000E+00	
Elemental I (atoms)		2.1680E+18	0.0000E+00	
Organic I (atoms)		4.0833E+18	0.0000E+00	
Aerosols (kg)		2.2241E-03	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.7121E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.2149E-08	
Total I (Ci)			4.7582E+03	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.9125E+22
Elemental I (atoms)	0.0000E+00	4.7144E+18
Organic I (atoms)	0.0000E+00	4.2032E+18
Aerosols (kg)	0.0000E+00	4.3426E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.8542E+22
Elemental I (atoms)	0.0000E+00	8.9375E+16
Organic I (atoms)	0.0000E+00	1.6437E+18
Aerosols (kg)	0.0000E+00	1.2630E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6314E+22
Elemental I (atoms)	2.0565E+18	2.0773E+16
Organic I (atoms)	1.5795E+18	1.5955E+16
Aerosols (kg)	1.9674E-03	1.9873E-05

Environment Integral Nuclide Release:

Time (h) =	6.0000	Ci	kg	Atoms	Bq
Kr-83m		2.4471E+03	1.2055E-07	8.7466E+17	9.0542E+13
Kr-85m		1.2901E+04	1.5676E-06	1.1107E+19	4.7733E+14
Kr-85		1.2490E+03	3.1864E-03	2.2575E+22	4.6212E+13
Kr-87		6.0016E+03	2.1188E-07	1.4666E+18	2.2206E+14
Kr-88		2.4718E+04	1.9713E-06	1.3490E+19	9.1457E+14

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Rb-86	2.2103E-01	2.7164E-09	1.9022E+16	8.1780E+09
Rb-88	6.1234E+03	5.0725E-08	3.4713E+17	2.2656E+14
Sr-89	8.0202E-01	2.7606E-08	1.8680E+17	2.9675E+10
Sr-90	8.5901E-02	6.2974E-07	4.2138E+18	3.1783E+09
Sr-91	8.5314E-01	2.3535E-10	1.5575E+15	3.1566E+10
Sr-92	6.4167E-01	5.1050E-11	3.3417E+14	2.3742E+10
Y-90	1.9783E-03	3.6361E-12	2.4330E+13	7.3195E+07
Y-91	1.0257E-02	4.1824E-10	2.7678E+15	3.7950E+08
Y-92	1.0976E-01	1.1407E-11	7.4670E+13	4.0613E+09
Y-93	9.7605E-03	2.9255E-12	1.8944E+13	3.6114E+08
Zr-95	1.1870E-02	5.5254E-10	3.5026E+15	4.3919E+08
Zr-97	1.0526E-02	5.5061E-12	3.4184E+13	3.8946E+08
Nb-95	1.1718E-02	2.9967E-10	1.8997E+15	4.3357E+08
Mo-99	1.4668E-01	3.0583E-10	1.8604E+15	5.4272E+09
Tc-99m	1.3174E-01	2.5055E-11	1.5241E+14	4.8745E+09
Ru-103	1.2964E-01	4.0169E-09	2.3486E+16	4.7967E+09
Ru-105	6.8366E-02	1.0170E-11	5.8331E+13	2.5295E+09
Ru-106	5.3971E-02	1.6132E-08	9.1651E+16	1.9969E+09
Rh-105	8.5529E-02	1.0133E-10	5.8117E+14	3.1646E+09
Sb-127	1.4704E-01	5.5059E-10	2.6108E+15	5.4404E+09
Sb-129	3.3860E-01	6.0212E-11	2.8109E+14	1.2528E+10
Te-127	1.4742E-01	5.5858E-11	2.6487E+14	5.4544E+09
Te-127m	2.5269E-02	2.6789E-09	1.2703E+16	9.3497E+08
Te-129	3.7105E-01	1.7718E-11	8.2712E+13	1.3729E+10
Te-129m	8.2860E-02	2.7505E-09	1.2840E+16	3.0658E+09
Te-131m	2.9910E-01	3.7509E-10	1.7243E+15	1.1067E+10
Te-132	2.2107E+00	7.2818E-09	3.3221E+16	8.1795E+10
I-131	9.7863E+01	7.8938E-07	3.6288E+18	3.6209E+12
I-132	1.1858E+02	1.1488E-08	5.2409E+16	4.3873E+12
I-133	1.9790E+02	1.7470E-07	7.9102E+17	7.3223E+12
I-134	1.3907E+02	5.2131E-09	2.3428E+16	5.1455E+12
I-135	1.7666E+02	5.0303E-08	2.2439E+17	6.5363E+12
Xe-133	1.5020E+05	8.0244E-04	3.6334E+21	5.5575E+15
Xe-133m	4.4932E+03	1.0206E-05	4.6212E+19	1.6625E+14
Xe-135	5.5899E+04	2.1889E-05	9.7645E+19	2.0683E+15
Xe-135m	4.5240E+02	4.9697E-09	2.2169E+16	1.6739E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.2130E+01	1.7104E-05	7.6869E+19	8.1882E+11
Cs-136	6.7401E+00	9.1964E-08	4.0722E+17	2.4938E+11
Cs-137	1.7181E+01	1.9753E-04	8.6828E+20	6.3571E+11
Ba-139	5.3726E-01	3.2846E-11	1.4230E+14	1.9879E+10
Ba-140	1.1755E+00	1.6056E-08	6.9067E+16	4.3492E+10
La-140	3.5389E-02	6.3669E-11	2.7387E+14	1.3094E+09
La-141	7.9116E-03	1.3990E-12	5.9750E+12	2.9273E+08
La-142	5.1569E-03	3.6024E-13	1.5278E+12	1.9080E+08
Ce-141	2.7870E-02	9.7814E-10	4.1776E+15	1.0312E+09
Ce-143	2.6020E-02	3.9182E-11	1.6500E+14	9.6273E+08
Ce-144	2.2346E-02	7.0061E-09	2.9300E+16	8.2680E+08
Pr-143	1.0683E-02	1.5865E-10	6.6811E+14	3.9528E+08
Nd-147	4.3176E-03	5.3370E-11	2.1864E+14	1.5975E+08
Np-239	3.0991E-01	1.3359E-09	3.3660E+15	1.1467E+10
Pu-238	6.9446E-05	4.0565E-09	1.0264E+16	2.5695E+06
Pu-239	7.0050E-06	1.1270E-07	2.8397E+17	2.5919E+05
Pu-240	1.2372E-05	5.4319E-09	1.3630E+16	4.5775E+05
Pu-241	2.7486E-03	2.7794E-08	6.9452E+16	1.0170E+08
Am-241	1.5554E-06	4.5403E-10	1.1345E+15	5.7551E+04
Cm-242	4.2701E-04	1.2900E-10	3.2101E+14	1.5800E+07
Cm-244	2.8245E-05	3.4507E-10	8.5167E+14	1.0451E+06

Environment Transport Group Inventory:

	Total	Release
Time (h) = 6.0000	Release	Rate/s
Noble gases (atoms)	2.6379E+22	1.2213E+18
Elemental I (atoms)	2.2764E+17	1.0539E+13
Organic I (atoms)	2.6314E+16	1.2182E+12
Aerosols (kg)	2.1662E-04	1.0029E-08
Dose Effective (Ci) I-131 (Thyroid)		1.3676E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.7211E+02
Total I (Ci)		7.3007E+02

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.4141E+17
Elemental I (atoms)	1.9254E+14	1.9624E+12
Organic I (atoms)	1.0098E+13	1.0254E+11

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Aerosols (kg) 1.8302E-07 1.8653E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5582E+17
Elemental I (atoms)	0.0000E+00	3.6021E+13
Organic I (atoms)	0.0000E+00	1.8890E+12
Aerosols (kg)	0.0000E+00	3.4240E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	3.6492E+17	0.0000E+00
Elemental I (atoms)	2.2196E+13	0.0000E+00
Organic I (atoms)	1.1335E+12	0.0000E+00
Aerosols (kg)	2.1769E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6314E+22
Elemental I (atoms)	2.0565E+18	2.0773E+16
Organic I (atoms)	1.5795E+18	1.5955E+16
Aerosols (kg)	1.9674E-03	1.9873E-05

CR Compartment Nuclide Inventory:

Time (h) = 6.0000	Ci	kg	Atoms	Decay
Kr-83m	2.8086E-02	1.3836E-12	1.0039E+13	1.8892E+13
Kr-85m	2.3385E-01	2.8416E-11	2.0132E+14	9.6922E+13
Kr-85	2.9912E-02	7.6311E-08	5.4065E+17	9.3132E+12
Kr-87	4.5352E-02	1.6011E-12	1.1083E+13	4.8192E+13
Kr-88	3.7503E-01	2.9909E-11	2.0467E+14	1.8728E+14
Rb-86	5.3150E-06	6.5321E-14	4.5741E+11	1.1585E+10
Rb-88	3.7043E-01	3.0686E-12	2.1000E+13	1.4273E+14
Sr-89	1.3279E-05	4.5708E-13	3.0928E+12	2.4408E+10
Sr-90	1.4254E-06	1.0450E-11	6.9922E+13	2.6151E+09
Sr-91	1.0601E-05	2.9244E-15	1.9353E+10	2.4876E+10
Sr-92	3.6650E-06	2.9158E-16	1.9086E+09	1.6595E+10
Y-90	9.3506E-08	1.7187E-16	1.1500E+09	8.1938E+07
Y-91	1.8069E-07	7.3678E-15	4.8758E+10	3.1658E+08
Y-92	4.5814E-06	4.7613E-16	3.1166E+09	5.7492E+09
Y-93	1.2343E-07	3.6995E-17	2.3956E+08	2.8535E+08
Zr-95	1.9663E-07	9.1527E-15	5.8020E+10	3.6127E+08
Zr-97	1.4870E-07	7.7784E-17	4.8292E+08	3.1290E+08
Nb-95	1.9445E-07	4.9727E-15	3.1523E+10	3.5672E+08
Mo-99	2.3367E-06	4.8721E-15	2.9637E+10	4.4388E+09
Tc-99m	2.1595E-06	4.1070E-16	2.4982E+09	3.9863E+09
Ru-103	2.1451E-06	6.6466E-14	3.8861E+11	3.9450E+09
Ru-105	6.0155E-07	8.9489E-17	5.1325E+08	1.8906E+09
Ru-106	8.9532E-07	2.6761E-13	1.5204E+12	1.6430E+09
Rh-105	1.3795E-06	1.6344E-15	9.3737E+09	2.5970E+09
Sb-127	2.3699E-06	8.8743E-15	4.2081E+10	4.4572E+09
Sb-129	2.9249E-06	5.2014E-16	2.4282E+09	9.3367E+09
Te-127	2.4331E-06	9.2195E-16	4.3717E+09	4.4708E+09
Te-127m	4.1933E-07	4.4455E-14	2.1080E+11	7.6926E+08
Te-129	4.0311E-06	1.9248E-16	8.9858E+08	1.0505E+10
Te-129m	1.3736E-06	4.5595E-14	2.1285E+11	2.5223E+09
Te-131m	4.5354E-06	5.6877E-15	2.6147E+10	8.9854E+09
Te-132	3.5443E-05	1.1674E-13	5.3262E+11	6.6961E+10
I-131	2.3106E-03	1.8638E-11	8.5679E+13	5.0618E+12
I-132	6.1020E-04	5.9116E-14	2.6970E+11	4.0067E+12
I-133	4.0080E-03	3.5381E-12	1.6020E+13	9.7694E+12
I-134	4.8877E-05	1.8322E-15	8.2341E+09	2.8874E+12
I-135	2.4658E-03	7.0214E-13	3.1321E+12	7.8273E+12

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Xe-133	3.5649E+00	1.9045E-08	8.6235E+16	1.1196E+15
Xe-133m	1.0528E-01	2.3912E-10	1.0827E+15	3.3474E+13
Xe-135	1.1738E+00	4.5965E-10	2.0504E+15	4.1130E+14
Xe-135m	7.6805E-04	8.4371E-15	3.7636E+10	4.2846E+12
Xe-138	7.6650E-08	7.9883E-19	3.4860E+06	2.9986E+12
Cs-134	5.3634E-04	4.1454E-10	1.8630E+15	1.1628E+12
Cs-136	1.6153E-04	2.2040E-12	9.7592E+12	3.5291E+11
Cs-137	4.1648E-04	4.7881E-09	2.1047E+16	9.0282E+11
Ba-139	9.8558E-07	6.0255E-17	2.6105E+08	1.1712E+10
Ba-140	1.9335E-05	2.6411E-13	1.1361E+12	3.5739E+10
La-140	1.8781E-06	3.3789E-15	1.4534E+10	1.5455E+09
La-141	6.3856E-08	1.1291E-17	4.8225E+07	2.1588E+08
La-142	1.2159E-08	8.4941E-19	3.6023E+06	1.1662E+08
Ce-141	4.6118E-07	1.6185E-14	6.9128E+10	8.4804E+08
Ce-143	3.9782E-07	5.9906E-16	2.5228E+09	7.8264E+08
Ce-144	3.7066E-07	1.1621E-13	4.8600E+11	6.8023E+08
Pr-143	1.7938E-07	2.6638E-15	1.1218E+10	3.2599E+08
Nd-147	7.0918E-08	8.7663E-16	3.5913E+09	1.3124E+08
Np-239	4.9032E-06	2.1135E-14	5.3255E+10	9.3687E+09
Pu-238	1.1524E-09	6.7314E-14	1.7032E+11	2.1141E+06
Pu-239	1.1630E-10	1.8711E-12	4.7148E+12	2.1327E+05
Pu-240	2.0529E-10	9.0135E-14	2.2617E+11	3.7663E+05
Pu-241	4.5609E-08	4.6119E-13	1.1524E+12	8.3674E+07
Am-241	2.5844E-11	7.5438E-15	1.8850E+10	4.7362E+04
Cm-242	7.0809E-09	2.1391E-15	5.3231E+09	1.2998E+07
Cm-244	4.6868E-10	5.7259E-15	1.4132E+10	8.5984E+05

CR Transport Group Inventory:

Time (h) =	6.0000	Atmosphere	Sump
Noble gases (atoms)	6.3045E+17	0.0000E+00	
Elemental I (atoms)	5.0890E+12	0.0000E+00	
Organic I (atoms)	3.1284E+11	0.0000E+00	
Aerosols (kg)	5.2442E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.8296E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3460E-13	
Total I (Ci)		9.4435E-03	

Deposition Recirculating

Time (h) =	6.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	9.2703E+12	
Organic I (atoms)	0.0000E+00	4.7341E+11	
Aerosols (kg)	0.0000E+00	9.0920E-09	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.4141E+17
Elemental I (atoms)	1.9254E+14	1.9624E+12
Organic I (atoms)	1.0098E+13	1.0254E+11
Aerosols (kg)	1.8302E-07	1.8653E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5582E+17
Elemental I (atoms)	0.0000E+00	3.6021E+13
Organic I (atoms)	0.0000E+00	1.8890E+12
Aerosols (kg)	0.0000E+00	3.4240E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	3.6492E+17	0.0000E+00
Elemental I (atoms)	2.2196E+13	0.0000E+00
Organic I (atoms)	1.1335E+12	0.0000E+00
Aerosols (kg)	2.1769E-08	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9789E-01	4.2284E-02	1.9993E-01
Accumulated dose (rem)		6.5726E-01	5.8272E+00	9.0714E-01

LPZ Doses:

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Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.4932E-02	2.0285E-02	9.5911E-02
Accumulated dose (rem)		3.0272E-01	8.5957E-01	3.3987E-01

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2620E-02	5.5485E-01	4.3800E-02
Accumulated dose (rem)		3.4518E-02	7.3033E+00	3.6642E-01

DW Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m		5.1231E+05	2.5238E-05	1.8311E+20	2.6078E+21
Kr-85m		6.5958E+06	8.0148E-04	5.6784E+21	1.2001E+22
Kr-85		1.1496E+06	2.9330E+00	2.0780E+25	1.1287E+21
Kr-87		5.8597E+05	2.0687E-05	1.4320E+20	7.4796E+21
Kr-88		8.8470E+06	7.0554E-04	4.8283E+21	2.4037E+22
Rb-86		5.7294E+01	7.0414E-07	4.9307E+18	6.5496E+17
Rb-88		1.1083E+07	9.1810E-05	6.2828E+20	1.5404E+22
Sr-89		3.1731E+03	1.0922E-04	7.3903E+20	2.0974E+19
Sr-90		3.4100E+02	2.4998E-03	1.6727E+22	2.2459E+18
Sr-91		2.1917E+03	6.0460E-07	4.0011E+18	2.2916E+19
Sr-92		5.2569E+02	4.1823E-08	2.7376E+17	1.8063E+19
Y-90		2.5169E+01	4.6262E-08	3.0955E+17	3.2515E+16
Y-91		4.3292E+01	1.7653E-06	1.1682E+19	2.6450E+17
Y-92		7.7949E+02	8.1009E-08	5.3027E+17	8.4080E+17
Y-93		2.5740E+01	7.7152E-09	4.9959E+16	2.6179E+17
Zr-95		4.6996E+01	2.1876E-06	1.3867E+19	3.1041E+17
Zr-97		3.2771E+01	1.7143E-08	1.0643E+17	2.7956E+17
Nb-95		4.6518E+01	1.1896E-06	7.5411E+18	3.0637E+17
Mo-99		5.4739E+02	1.1413E-06	6.9425E+18	3.8510E+18
Tc-99m		5.1102E+02	9.7185E-08	5.9118E+17	3.4333E+18
Ru-103		5.1242E+02	1.5877E-05	9.2830E+19	3.3905E+18
Ru-105		1.0531E+02	1.5667E-08	8.9856E+16	1.8831E+18
Ru-106		2.1415E+02	6.4010E-05	3.6366E+20	1.4112E+18
Rh-105		3.2208E+02	3.8158E-07	2.1885E+18	2.2403E+18
Sb-127		5.5851E+02	2.0914E-06	9.9170E+18	3.8558E+18
Sb-129		5.0765E+02	9.0275E-08	4.2143E+17	9.3370E+18
Te-127		5.7927E+02	2.1949E-07	1.0408E+18	3.8453E+18
Te-127m		1.0032E+02	1.0635E-05	5.0430E+19	6.6067E+17
Te-129		7.6609E+02	3.6581E-08	1.7077E+17	9.9054E+18
Te-129m		3.2826E+02	1.0896E-05	5.0868E+19	2.1665E+18
Te-131m		1.0360E+03	1.2992E-06	5.9725E+18	7.8907E+18
Te-132		8.3300E+03	2.7438E-05	1.2518E+20	5.8002E+19
I-131		5.9007E+04	4.7596E-04	2.1880E+21	3.5412E+20
I-132		2.1142E+04	2.0482E-06	9.3445E+18	4.6892E+20
I-133		9.6322E+04	8.5030E-05	3.8501E+20	7.0382E+20
I-134		2.5828E+02	9.6819E-09	4.3512E+16	4.0498E+20
I-135		5.1360E+04	1.4625E-05	6.5238E+19	6.0647E+20
Xe-133		1.3560E+08	7.2442E-01	3.2801E+24	1.3574E+23
Xe-133m		3.9454E+06	8.9616E-03	4.0577E+22	4.0606E+21
Xe-135		3.9038E+07	1.5287E-02	6.8191E+22	5.0817E+22
Xe-135m		9.1540E+03	1.0056E-07	4.4857E+17	1.5788E+21
Xe-138		8.4201E-03	8.7753E-14	3.8294E+11	7.2179E+20
Cs-134		5.7990E+03	4.4820E-03	2.0143E+22	6.5607E+19
Cs-136		1.7389E+03	2.3727E-05	1.0506E+20	1.9969E+19
Cs-137		4.5034E+03	5.1774E-02	2.2758E+23	5.0937E+19
Ba-139		8.6239E+01	5.2723E-09	2.2842E+16	1.5429E+19
Ba-140		4.6045E+03	6.2896E-05	2.7055E+20	3.0761E+19
La-140		5.0621E+02	9.1073E-07	3.9175E+18	5.1034E+17
La-141		1.0735E+01	1.8983E-09	8.1076E+15	2.1905E+17
La-142		1.1836E+00	8.2680E-11	3.5064E+14	1.4796E+17
Ce-141		1.1021E+02	3.8679E-06	1.6520E+19	7.2900E+17
Ce-143		9.1256E+01	1.3742E-07	5.7870E+17	6.8590E+17
Ce-144		8.8654E+01	2.7796E-05	1.1624E+20	5.8427E+17
Pr-143		4.2968E+01	6.3809E-07	2.6872E+18	2.7860E+17
Nd-147		1.6877E+01	2.0861E-07	8.5463E+17	1.1300E+17
Np-239		1.1446E+03	4.9336E-06	1.2431E+19	8.1419E+18
Pu-238		2.7569E-01	1.6104E-05	4.0747E+19	1.8157E+15
Pu-239		2.7831E-02	4.4775E-04	1.1282E+21	1.8314E+14
Pu-240		4.9112E-02	2.1563E-05	5.4106E+19	3.2347E+14
Pu-241		1.0911E+01	1.1033E-04	2.7569E+20	7.1864E+16
Am-241		6.1851E-03	1.8054E-06	4.5114E+18	4.0659E+13
Cm-242		1.6933E+00	5.1155E-07	1.2730E+18	1.1165E+16
Cm-244		1.1212E-01	1.3698E-06	3.3808E+18	7.3847E+14

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DW Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	2.4180E+25	0.0000E+00	
Elemental I (atoms)	1.2413E+19	7.8121E+22	
Organic I (atoms)	1.3285E+21	0.0000E+00	
Aerosols (kg)	6.0107E-02	6.5810E+01	
Dose Effective (Ci/cc)	I-131 (Thyroid)	8.8406E-06	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0356E-05	
Total I (Ci)		2.2809E+05	

DW to WW Transport Group Inventory:

Time (h) = 8.0000 Leakage Transport

Noble gases (atoms)	5.3991E+27
Elemental I (atoms)	8.4963E+21
Organic I (atoms)	3.0700E+23
Aerosols (kg)	1.7651E+01

WW to DW Transport Group Inventory:

Time (h) = 8.0000 Leakage Transport

Noble gases (atoms)	5.5410E+27
Elemental I (atoms)	1.2620E+22
Organic I (atoms)	3.1539E+23
Aerosols (kg)	2.1005E+01

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.5232E+22
Elemental I (atoms)	0.0000E+00	4.7279E+18
Organic I (atoms)	0.0000E+00	5.6533E+18
Aerosols (kg)	0.0000E+00	4.4075E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.6087E+21
Elemental I (atoms)	0.0000E+00	2.6710E+17
Organic I (atoms)	0.0000E+00	5.0750E+17
Aerosols (kg)	0.0000E+00	2.4664E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3343E+22
Elemental I (atoms)	0.0000E+00	7.2427E+17
Organic I (atoms)	0.0000E+00	1.3761E+18
Aerosols (kg)	0.0000E+00	6.6878E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3343E+22
Elemental I (atoms)	0.0000E+00	7.2427E+17
Organic I (atoms)	0.0000E+00	1.3761E+18
Aerosols (kg)	0.0000E+00	6.6878E-04

RB Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m	1.8865E+03	9.2934E-08	6.7429E+17	3.1832E+18	
Kr-85m	2.4288E+04	2.9513E-06	2.0910E+19	1.9869E+19	
Kr-85	4.2334E+03	1.0800E-02	7.6519E+22	2.2706E+18	
Kr-87	2.1578E+03	7.6177E-08	5.2730E+17	7.1930E+18	
Kr-88	3.2578E+04	2.5981E-06	1.7779E+19	3.5194E+19	
Rb-86	1.7585E+00	2.1612E-08	1.5134E+17	2.7875E+15	
Rb-88	4.0811E+04	3.3807E-07	2.3136E+18	3.6700E+19	
Sr-89	4.1578E+01	1.4312E-06	9.6838E+18	4.9870E+16	
Sr-90	4.4682E+00	3.2756E-05	2.1918E+20	5.3480E+15	
Sr-91	2.8719E+01	7.9224E-09	5.2428E+16	4.5524E+16	
Sr-92	6.8883E+00	5.4802E-10	3.5872E+15	2.4016E+16	
Y-90	3.5106E-01	6.4525E-10	4.3175E+15	2.2170E+14	
Y-91	5.7179E-01	2.3316E-08	1.5430E+17	6.5502E+14	

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Y-92	1.1165E+01	1.1603E-09	7.5954E+15	1.1615E+16
Y-93	3.3729E-01	1.0110E-10	6.5464E+14	5.2552E+14
Zr-95	6.1581E-01	2.8665E-08	1.8171E+17	7.3828E+14
Zr-97	4.2941E-01	2.2463E-10	1.3946E+15	6.0041E+14
Nb-95	6.0954E-01	1.5588E-08	9.8814E+16	7.2952E+14
Mo-99	7.1726E+00	1.4955E-08	9.0971E+16	8.9280E+15
Tc-99m	6.6961E+00	1.2735E-09	7.7464E+15	8.1063E+15
Ru-103	6.7144E+00	2.0805E-07	1.2164E+18	8.0584E+15
Ru-105	1.3800E+00	2.0529E-10	1.1774E+15	3.0863E+15
Ru-106	2.8061E+00	8.3875E-07	4.7652E+18	3.3596E+15
Rh-105	4.2203E+00	5.0001E-09	2.8677E+16	5.2455E+15
Sb-127	7.3183E+00	2.7404E-08	1.2995E+17	9.0075E+15
Sb-129	6.6519E+00	1.1829E-09	5.5222E+15	1.5157E+16
Te-127	7.5904E+00	2.8761E-09	1.3638E+16	9.1199E+15
Te-127m	1.3145E+00	1.3936E-07	6.6080E+17	1.5732E+15
Te-129	1.0038E+01	4.7933E-10	2.2377E+15	1.8308E+16
Te-129m	4.3013E+00	1.4278E-07	6.6654E+17	5.1560E+15
Te-131m	1.3575E+01	1.7024E-08	7.8260E+16	1.7721E+16
Te-132	1.0915E+02	3.5953E-07	1.6403E+18	1.3503E+17
I-131	9.3774E+02	7.5640E-06	3.4772E+19	1.3577E+18
I-132	2.6358E+02	2.5536E-08	1.1650E+17	9.7375E+17
I-133	1.5317E+03	1.3521E-06	6.1223E+18	2.5199E+18
I-134	4.1071E+00	1.5396E-10	6.9191E+14	4.9839E+17
I-135	8.1671E+02	2.3256E-07	1.0374E+18	1.8564E+18
Xe-133	4.9932E+05	2.6676E-03	1.2078E+22	2.7137E+20
Xe-133m	1.4528E+04	3.2999E-05	1.4942E+20	8.0468E+18
Xe-135	1.4372E+05	5.6280E-05	2.5106E+20	9.3512E+19
Xe-135m	1.4556E+02	1.5990E-09	7.1328E+15	6.0047E+17
Xe-138	3.1006E-05	3.2314E-16	1.4101E+09	1.8698E+17
Cs-134	1.7799E+02	1.3757E-04	6.1825E+20	2.8031E+17
Cs-136	5.3374E+01	7.2824E-07	3.2247E+18	8.4846E+16
Cs-137	1.3822E+02	1.5891E-03	6.9852E+21	2.1765E+17
Ba-139	1.1300E+00	6.9085E-11	2.9931E+14	1.3427E+16
Ba-140	6.0335E+01	8.2415E-07	3.5451E+18	7.2825E+16
La-140	7.0771E+00	1.2733E-08	5.4769E+16	4.3034E+15
La-141	1.4067E-01	2.4874E-11	1.0624E+14	3.4340E+14
La-142	1.5509E-02	1.0834E-12	4.5946E+12	1.3963E+14
Ce-141	1.4438E+00	5.0673E-08	2.1642E+17	1.7328E+15
Ce-143	1.1958E+00	1.8006E-09	7.5829E+15	1.5486E+15
Ce-144	1.1617E+00	3.6422E-07	1.5232E+18	1.3909E+15
Pr-143	5.6386E-01	8.3734E-09	3.5263E+16	6.6840E+14
Nd-147	2.2114E-01	2.7336E-09	1.1199E+16	2.6728E+14
Np-239	1.4998E+01	6.4647E-08	1.6289E+17	1.8792E+16
Pu-238	3.6125E-03	2.1101E-07	5.3393E+17	4.3236E+12
Pu-239	3.6468E-04	5.8671E-06	1.4783E+19	4.3625E+11
Pu-240	6.4353E-04	2.8255E-07	7.0897E+17	7.7023E+11
Pu-241	1.4297E-01	1.4457E-06	3.6125E+18	1.7112E+14
Am-241	8.1053E-05	2.3659E-08	5.9121E+16	9.6896E+10
Cm-242	2.2189E-02	6.7031E-09	1.6680E+16	2.6575E+13
Cm-244	1.4691E-03	1.7949E-08	4.4299E+16	1.7584E+12

RB Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump	
Noble gases (atoms)	8.9038E+22	0.0000E+00		
Elemental I (atoms)	1.6322E+18	0.0000E+00		
Organic I (atoms)	4.9607E+18	0.0000E+00		
Aerosols (kg)	1.7807E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.2170E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.5934E-08	
Total I (Ci)			3.5538E+03	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.5232E+22
Elemental I (atoms)	0.0000E+00	4.7279E+18
Organic I (atoms)	0.0000E+00	5.6533E+18
Aerosols (kg)	0.0000E+00	4.4075E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.2400E+22
Elemental I (atoms)	0.0000E+00	9.6566E+16
Organic I (atoms)	0.0000E+00	2.4134E+18
Aerosols (kg)	0.0000E+00	1.6073E-04

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Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8230E+22
Elemental I (atoms)	2.5651E+18	2.5910E+16
Organic I (atoms)	2.8054E+18	2.8338E+16
Aerosols (kg)	2.5042E-03	2.5295E-05

Environment Integral Nuclide Release:

Time (h) = 8.0000	Ci	kg	Atoms	Bq
Kr-83m	3.1140E+03	1.5340E-07	1.1130E+18	1.1522E+14
Kr-85m	1.9806E+04	2.4067E-06	1.7051E+19	7.3282E+14
Kr-85	2.2898E+03	5.8419E-03	4.1389E+22	8.4724E+13
Kr-87	6.9179E+03	2.4423E-07	1.6906E+18	2.5596E+14
Kr-88	3.4826E+04	2.7774E-06	1.9006E+19	1.2886E+15
Rb-86	2.2639E-01	2.7824E-09	1.9483E+16	8.3766E+09
Rb-88	8.6302E+03	7.1491E-08	4.8924E+17	3.1932E+14
Sr-89	9.2432E-01	3.1816E-08	2.1528E+17	3.4200E+10
Sr-90	9.9038E-02	7.2605E-07	4.8582E+18	3.6644E+09
Sr-91	9.4389E-01	2.6038E-10	1.7231E+15	3.4924E+10
Sr-92	6.6795E-01	5.3141E-11	3.4785E+14	2.4714E+10
Y-90	2.8855E-03	5.3036E-12	3.5488E+13	1.0676E+08
Y-91	1.1922E-02	4.8612E-10	3.2170E+15	4.4110E+08
Y-92	1.4470E-01	1.5038E-11	9.8433E+13	5.3538E+09
Y-93	1.0822E-02	3.2436E-12	2.1004E+13	4.0040E+08
Zr-95	1.3681E-02	6.3685E-10	4.0370E+15	5.0621E+08
Zr-97	1.1840E-02	6.1936E-12	3.8452E+13	4.3809E+08
Nb-95	1.3510E-02	3.4550E-10	2.1902E+15	4.9988E+08
Mo-99	1.6799E-01	3.5025E-10	2.1306E+15	6.2155E+09
Tc-99m	1.5154E-01	2.8819E-11	1.7531E+14	5.6069E+09
Ru-103	1.4940E-01	4.6290E-09	2.7065E+16	5.5277E+09
Ru-105	7.3110E-02	1.0876E-11	6.2379E+13	2.7051E+09
Ru-106	6.2222E-02	1.8598E-08	1.0566E+17	2.3022E+09
Rh-105	9.8089E-02	1.1621E-10	6.6652E+14	3.6293E+09
Sb-127	1.6871E-01	6.3175E-10	2.9957E+15	6.2423E+09
Sb-129	3.6156E-01	6.4297E-11	3.0016E+14	1.3378E+10
Te-127	1.6979E-01	6.4335E-11	3.0507E+14	6.2821E+09
Te-127m	2.9134E-02	3.0886E-09	1.4646E+16	1.0780E+09
Te-129	4.0411E-01	1.9296E-11	9.0082E+13	1.4952E+10
Te-129m	9.5513E-02	3.1705E-09	1.4801E+16	3.5340E+09
Te-131m	3.3992E-01	4.2628E-10	1.9596E+15	1.2577E+10
Te-132	2.5344E+00	8.3479E-09	3.8085E+16	9.3772E+10
I-131	1.0066E+02	8.1194E-07	3.7325E+18	3.7244E+12
I-132	1.1951E+02	1.1578E-08	5.2821E+16	4.4219E+12
I-133	2.0261E+02	1.7885E-07	8.0983E+17	7.4964E+12
I-134	1.3910E+02	5.2142E-09	2.3433E+16	5.1466E+12
I-135	1.7935E+02	5.1071E-08	2.2782E+17	6.6361E+12
Xe-133	2.7357E+05	1.4615E-03	6.6177E+21	1.0122E+16
Xe-133m	8.1077E+03	1.8416E-05	8.3386E+19	2.9998E+14
Xe-135	9.3797E+04	3.6729E-05	1.6384E+20	3.4705E+15
Xe-135m	4.8952E+02	5.3774E-09	2.3988E+16	1.8112E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.2673E+01	1.7524E-05	7.8754E+19	8.3889E+11
Cs-136	6.9032E+00	9.4188E-08	4.1707E+17	2.5542E+11
Cs-137	1.7603E+01	2.0237E-04	8.8957E+20	6.5130E+11
Ba-139	5.4292E-01	3.3192E-11	1.4380E+14	2.0088E+10
Ba-140	1.3532E+00	1.8485E-08	7.9512E+16	5.0070E+10
La-140	5.3614E-02	9.6457E-11	4.1491E+14	1.9837E+09
La-141	8.4054E-03	1.4863E-12	6.3479E+12	3.1100E+08
La-142	5.2300E-03	3.6535E-13	1.5494E+12	1.9351E+08
Ce-141	3.2118E-02	1.1272E-09	4.8144E+15	1.1884E+09
Ce-143	2.9608E-02	4.4585E-11	1.8776E+14	1.0955E+09
Ce-144	2.5762E-02	8.0770E-09	3.3778E+16	9.5318E+08
Pr-143	1.2337E-02	1.8321E-10	7.7154E+14	4.5647E+08
Nd-147	4.9694E-03	6.1427E-11	2.5165E+14	1.8387E+08
Np-239	3.5453E-01	1.5282E-09	3.8507E+15	1.3118E+10

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Pu-238	8.0067E-05	4.6769E-09	1.1834E+16	2.9625E+06
Pu-239	8.0770E-06	1.2995E-07	3.2743E+17	2.9885E+05
Pu-240	1.4264E-05	6.2625E-09	1.5714E+16	5.2776E+05
Pu-241	3.1689E-03	3.2044E-08	8.0072E+16	1.1725E+08
Am-241	1.7936E-06	5.2357E-10	1.3083E+15	6.6365E+04
Cm-242	4.9226E-04	1.4871E-10	3.7006E+14	1.8214E+07
Cm-244	3.2564E-05	3.9784E-10	9.8190E+14	1.2049E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 8.0000	Release	Rate/s	
Noble gases (atoms)	4.8293E+22	1.6768E+18	
Elemental I (atoms)	2.3277E+17	8.0822E+12	
Organic I (atoms)	3.8683E+16	1.3432E+12	
Aerosols (kg)	2.2207E-04	7.7106E-09	
Dose Effective (Ci) I-131 (Thyroid)			1.4043E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			1.7642E+02
Total I (Ci)			7.4123E+02

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4670E+18
Elemental I (atoms)	1.9268E+14	1.9639E+12
Organic I (atoms)	1.0447E+13	1.0608E+11
Aerosols (kg)	1.8317E-07	1.8669E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7166E+17
Elemental I (atoms)	0.0000E+00	3.6048E+13
Organic I (atoms)	0.0000E+00	1.9544E+12
Aerosols (kg)	0.0000E+00	3.4269E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	7.6778E+17	0.0000E+00
Elemental I (atoms)	2.4017E+13	0.0000E+00
Organic I (atoms)	1.2585E+12	0.0000E+00
Aerosols (kg)	2.3664E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8230E+22
Elemental I (atoms)	2.5651E+18	2.5910E+16
Organic I (atoms)	2.8054E+18	2.8338E+16
Aerosols (kg)	2.5042E-03	2.5295E-05

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	2.0494E-02	1.0096E-12	7.3251E+12	2.5484E+13
Kr-85m	2.6385E-01	3.2062E-11	2.2715E+14	1.6492E+14
Kr-85	4.5989E-02	1.1733E-07	8.3126E+17	1.9536E+13
Kr-87	2.3441E-02	8.2755E-13	5.7283E+12	5.7278E+13
Kr-88	3.5391E-01	2.8224E-11	1.9315E+14	2.8697E+14
Rb-86	2.6146E-06	3.2134E-14	2.2501E+11	1.2581E+10
Rb-88	3.6176E-01	2.9968E-12	2.0508E+13	2.2813E+14
Sr-89	6.9746E-06	2.4007E-13	1.6244E+12	2.6967E+10
Sr-90	7.4953E-07	5.4948E-12	3.6767E+13	2.8899E+09
Sr-91	4.8174E-06	1.3290E-15	8.7946E+09	2.6792E+10

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Sr-92	1.1555E-06	9.1928E-17	6.0174E+08	1.7163E+10
Y-90	6.3833E-08	1.1733E-16	7.8506E+08	1.0223E+08
Y-91	9.6991E-08	3.9550E-15	2.6173E+10	3.5173E+08
Y-92	2.0979E-06	2.1803E-16	1.4272E+09	6.5815E+09
Y-93	5.6579E-08	1.6958E-17	1.0981E+08	3.0775E+08
Zr-95	1.0330E-07	4.8085E-15	3.0481E+10	3.9916E+08
Zr-97	7.2033E-08	3.7681E-17	2.3394E+08	3.4055E+08
Nb-95	1.0225E-07	2.6149E-15	1.6576E+10	3.9421E+08
Mo-99	1.2032E-06	2.5087E-15	1.5260E+10	4.8851E+09
Tc-99m	1.1233E-06	2.1362E-16	1.2994E+09	4.3985E+09
Ru-103	1.1263E-06	3.4899E-14	2.0405E+11	4.3584E+09
Ru-105	2.3148E-07	3.4437E-17	1.9751E+08	1.9918E+09
Ru-106	4.7072E-07	1.4070E-13	7.9934E+11	1.8156E+09
Rh-105	7.0794E-07	8.3874E-16	4.8105E+09	2.8602E+09
Sb-127	1.2276E-06	4.5969E-15	2.1798E+10	4.9111E+09
Sb-129	1.1158E-06	1.9843E-16	9.2633E+08	9.8274E+09
Te-127	1.2733E-06	4.8246E-16	2.2877E+09	4.9373E+09
Te-127m	2.2050E-07	2.3376E-14	1.1085E+11	8.5012E+08
Te-129	1.6839E-06	8.0406E-17	3.7536E+08	1.1190E+10
Te-129m	7.2153E-07	2.3951E-14	1.1181E+11	2.7871E+09
Te-131m	2.2772E-06	2.8557E-15	1.3128E+10	9.8421E+09
Te-132	1.8310E-05	6.0310E-14	2.7515E+11	7.3741E+10
I-131	1.1339E-03	9.1462E-12	4.2046E+13	5.4943E+12
I-132	1.7442E-04	1.6897E-14	7.7089E+10	4.0974E+12
I-133	1.8533E-03	1.6360E-12	7.4077E+12	1.0500E+13
I-134	4.9694E-06	1.8628E-16	8.3718E+08	2.8925E+12
I-135	9.8818E-04	2.8138E-13	1.2552E+12	8.2501E+12
Xe-133	5.4237E+00	2.8975E-08	1.3120E+17	2.3310E+15
Xe-133m	1.5778E-01	3.5839E-10	1.6228E+15	6.8966E+13
Xe-135	1.5563E+00	6.0944E-10	2.7186E+15	7.8239E+14
Xe-135m	3.9310E-04	4.3183E-15	1.9263E+10	4.4321E+12
Xe-138	3.3683E-10	3.5104E-21	1.5319E+04	2.9986E+12
Cs-134	2.6464E-04	2.0454E-10	9.1923E+14	1.2634E+12
Cs-136	7.9357E-05	1.0828E-12	4.7945E+12	3.8316E+11
Cs-137	2.0551E-04	2.3627E-09	1.0386E+16	9.8097E+11
Ba-139	1.8956E-07	1.1589E-17	5.0208E+07	1.1838E+10
Ba-140	1.0121E-05	1.3825E-13	5.9468E+11	3.9459E+10
La-140	1.2903E-06	2.3215E-15	9.9859E+09	1.9544E+09
La-141	2.3597E-08	4.1725E-18	1.7821E+07	2.2645E+08
La-142	2.6016E-09	1.8174E-19	7.7073E+05	1.1824E+08
Ce-141	2.4213E-07	8.4977E-15	3.6294E+10	9.3691E+08
Ce-143	2.0058E-07	3.0205E-16	1.2720E+09	8.5792E+08
Ce-144	1.9487E-07	6.1096E-14	2.5551E+11	7.5170E+08
Pr-143	9.4778E-08	1.4075E-15	5.9273E+09	3.6065E+08
Nd-147	3.7096E-08	4.5855E-16	1.8785E+09	1.4488E+08
Np-239	2.5158E-06	1.0844E-14	2.7325E+10	1.0304E+10
Pu-238	6.0598E-10	3.5396E-14	8.9564E+10	2.3363E+06
Pu-239	6.1174E-11	9.8419E-13	2.4799E+12	2.3570E+05
Pu-240	1.0795E-10	4.7396E-14	1.1893E+11	4.1621E+05
Pu-241	2.3982E-08	2.4251E-13	6.0599E+11	9.2469E+07
Am-241	1.3598E-11	3.9693E-15	9.9186E+09	5.2346E+04
Cm-242	3.7221E-09	1.1244E-15	2.7981E+09	1.4363E+07
Cm-244	2.4644E-10	3.0109E-15	7.4311E+09	9.5021E+05

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	9.6724E+17	0.0000E+00	
Elemental I (atoms)	2.4549E+12	0.0000E+00	
Organic I (atoms)	1.9905E+11	0.0000E+00	
Aerosols (kg)	2.5895E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3644E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.5923E-13	
Total I (Ci)		4.1547E-03	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0031E+13
Organic I (atoms)	0.0000E+00	5.2561E+11
Aerosols (kg)	0.0000E+00	9.8835E-09

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4670E+18
Elemental I (atoms)	1.9268E+14	1.9639E+12
Organic I (atoms)	1.0447E+13	1.0608E+11

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Aerosols (kg) 1.8317E-07 1.8669E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7166E+17
Elemental I (atoms)	0.0000E+00	3.6048E+13
Organic I (atoms)	0.0000E+00	1.9544E+12
Aerosols (kg)	0.0000E+00	3.4269E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	7.6778E+17	0.0000E+00
Elemental I (atoms)	2.4017E+13	0.0000E+00
Organic I (atoms)	1.2585E+12	0.0000E+00
Aerosols (kg)	2.3664E-08	0.0000E+00

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4141E-01	1.1154E-01	5.4671E-01
Accumulated dose (rem)	1.1987E+00	5.9387E+00	1.4539E+00

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.8953E-03	1.0484E-03	9.9451E-03
Accumulated dose (rem)	3.1262E-01	8.6061E-01	3.4982E-01

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6710E-02	4.9142E-01	6.1792E-02
Accumulated dose (rem)	6.1228E-02	7.7947E+00	4.2821E-01

DW Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	2.5843E+04	1.2731E-06	9.2369E+18	2.7813E+21
Kr-85m	1.9023E+06	2.3115E-04	1.6377E+21	1.6023E+22
Kr-85	1.1432E+06	2.9165E+00	2.0663E+25	2.3502E+21
Kr-87	7.4417E+03	2.6272E-07	1.8185E+18	7.6208E+21
Kr-88	1.2485E+06	9.9566E-05	6.8136E+20	2.8172E+22
Rb-86	5.6271E+01	6.9157E-07	4.8427E+18	7.1546E+17
Rb-88	3.7798E+06	3.1311E-05	2.1427E+20	1.9951E+22
Sr-89	3.1409E+03	1.0811E-04	7.3153E+20	2.4338E+19
Sr-90	3.3908E+02	2.4858E-03	1.6633E+22	2.6082E+18
Sr-91	1.2157E+03	3.3537E-07	2.2194E+18	2.4681E+19
Sr-92	6.7551E+01	5.3743E-09	3.5179E+16	1.8301E+19
Y-90	5.1164E+01	9.4040E-08	6.2925E+17	7.2500E+16
Y-91	4.5612E+01	1.8599E-06	1.2308E+19	3.1193E+17
Y-92	3.0333E+02	3.1524E-08	2.0635E+17	1.4005E+18
Y-93	1.4782E+01	4.4306E-09	2.8690E+16	2.8284E+17
Zr-95	4.6564E+01	2.1675E-06	1.3740E+19	3.6025E+17
Zr-97	2.3472E+01	1.2278E-08	7.6228E+16	3.0925E+17
Nb-95	4.6257E+01	1.1829E-06	7.4988E+18	3.5578E+17
Mo-99	5.0045E+02	1.0435E-06	6.3473E+18	4.4088E+18
Tc-99m	4.8583E+02	9.2394E-08	5.6203E+17	3.9501E+18
Ru-103	5.0656E+02	1.5696E-05	9.1768E+19	3.9334E+18
Ru-105	3.0036E+01	4.4683E-09	2.5628E+16	1.9470E+18
Ru-106	2.1282E+02	6.3611E-05	3.6139E+20	1.6386E+18
Rh-105	2.8236E+02	3.3453E-07	1.9186E+18	2.5625E+18
Sb-127	5.2302E+02	1.9585E-06	9.2870E+18	4.4317E+18
Sb-129	1.3985E+02	2.4869E-08	1.1610E+17	9.6410E+18
Te-127	5.6384E+02	2.1365E-07	1.0131E+18	4.4440E+18
Te-127m	9.9747E+01	1.0575E-05	5.0144E+19	7.6724E+17
Te-129	4.5625E+02	2.1786E-08	1.0171E+17	1.0434E+19
Te-129m	3.2461E+02	1.0775E-05	5.0302E+19	2.5144E+18
Te-131m	8.5633E+02	1.0739E-06	4.9368E+18	8.8958E+18
Te-132	7.7162E+03	2.5416E-05	1.1596E+20	6.6546E+19
I-131	5.7035E+04	4.6005E-04	2.1149E+21	4.1593E+20
I-132	9.8622E+03	9.5544E-07	4.3589E+18	4.8241E+20
I-133	7.3368E+04	6.4766E-05	2.9326E+20	7.9366E+20
I-134	4.5984E-01	1.7238E-11	7.7468E+13	4.0502E+20
I-135	2.2072E+04	6.2851E-06	2.8037E+19	6.4342E+20

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Xe-133	1.2919E+08	6.9019E-01	3.1251E+24	2.7676E+23
Xe-133m	3.5374E+06	8.0348E-03	3.6381E+22	8.0428E+21
Xe-135	2.1107E+07	8.2651E-03	3.6869E+22	8.1884E+22
Xe-135m	1.0237E+04	1.1245E-07	5.0163E+17	1.5843E+21
Cs-134	5.7647E+03	4.4555E-03	2.0024E+22	7.1767E+19
Cs-136	1.6990E+03	2.3181E-05	1.0265E+20	2.1800E+19
Cs-137	4.4780E+03	5.1482E-02	2.2630E+23	5.5721E+19
Ba-139	1.5348E+00	9.3831E-11	4.0652E+14	1.5451E+19
Ba-140	4.4964E+03	6.1419E-05	2.6420E+20	3.5609E+19
La-140	1.0245E+03	1.8432E-06	7.9287E+18	1.3142E+18
La-141	2.6037E+00	4.6040E-10	1.9664E+15	2.2516E+17
La-142	3.2259E-02	2.2535E-12	9.5570E+12	1.4830E+17
Ce-141	1.0886E+02	3.8204E-06	1.6317E+19	8.4570E+17
Ce-143	7.6708E+01	1.1551E-07	4.8644E+17	7.7516E+17
Ce-144	8.8085E+01	2.7617E-05	1.1550E+20	6.7842E+17
Pr-143	4.3417E+01	6.4476E-07	2.7153E+18	3.2460E+17
Nd-147	1.6433E+01	2.0313E-07	8.3214E+17	1.3075E+17
Np-239	1.0318E+03	4.4475E-06	1.1206E+19	9.3003E+18
Pu-238	2.7415E-01	1.6014E-05	4.0520E+19	2.1086E+15
Pu-239	2.7703E-02	4.4570E-04	1.1230E+21	2.1272E+14
Pu-240	4.8837E-02	2.1442E-05	5.3803E+19	3.7564E+14
Pu-241	1.0849E+01	1.0971E-04	2.7414E+20	8.3455E+16
Am-241	6.1663E-03	1.7999E-06	4.4977E+18	4.7238E+13
Cm-242	1.6815E+00	5.0796E-07	1.2641E+18	1.2963E+16
Cm-244	1.1149E-01	1.3621E-06	3.3617E+18	8.5759E+14

DW Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	2.3864E+25	0.0000E+00
Elemental I (atoms)	1.1442E+19	7.8121E+22
Organic I (atoms)	1.2246E+21	0.0000E+00
Aerosols (kg)	5.9683E-02	6.5810E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		8.0668E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.0925E-06
Total I (Ci)		1.6234E+05

DW to WW Transport Group Inventory:

Time (h) = 16.0000 Leakage Transport

Noble gases (atoms)	1.2583E+28
Elemental I (atoms)	1.2062E+22
Organic I (atoms)	6.8860E+23
Aerosols (kg)	3.5558E+01

WW to DW Transport Group Inventory:

Time (h) = 16.0000 Leakage Transport

Noble gases (atoms)	1.2725E+28
Elemental I (atoms)	1.6185E+22
Organic I (atoms)	6.9699E+23
Aerosols (kg)	3.8912E+01

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9879E+23
Elemental I (atoms)	0.0000E+00	4.7793E+18
Organic I (atoms)	0.0000E+00	1.1154E+19
Aerosols (kg)	0.0000E+00	4.6657E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7997E+22
Elemental I (atoms)	0.0000E+00	2.7176E+17
Organic I (atoms)	0.0000E+00	1.0062E+18
Aerosols (kg)	0.0000E+00	2.7004E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8801E+22
Elemental I (atoms)	0.0000E+00	7.3690E+17
Organic I (atoms)	0.0000E+00	2.7284E+18
Aerosols (kg)	0.0000E+00	7.3223E-04

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DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	Transported
Time (h) = 16.0000	Filtered	
Noble gases (atoms)	0.0000E+00	4.8801E+22
Elemental I (atoms)	0.0000E+00	7.3690E+17
Organic I (atoms)	0.0000E+00	2.7284E+18
Aerosols (kg)	0.0000E+00	7.3223E-04

RB Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	1.3637E+02	6.7179E-09	4.8743E+16	3.9263E+18
Kr-85m	1.0038E+04	1.2198E-06	8.6419E+18	3.7913E+19
Kr-85	6.0325E+03	1.5390E-02	1.0904E+23	7.9546E+18
Kr-87	3.9269E+01	1.3863E-09	9.5963E+15	7.7806E+18
Kr-88	6.5882E+03	5.2540E-07	3.5955E+18	5.3370E+19
Rb-86	8.1154E-01	9.9738E-09	6.9841E+16	4.0458E+15
Rb-88	1.9946E+04	1.6523E-07	1.1307E+18	5.6627E+19
Sr-89	2.6593E+01	9.1534E-07	6.1936E+18	8.4450E+16
Sr-90	2.8708E+00	2.1046E-05	1.4082E+20	9.0719E+15
Sr-91	1.0293E+01	2.8395E-09	1.8791E+16	6.4069E+16
Sr-92	5.7193E-01	4.5502E-11	2.9785E+14	2.6648E+16
Y-90	4.3974E-01	8.0826E-10	5.4083E+15	6.3567E+14
Y-91	3.8769E-01	1.5809E-08	1.0462E+17	1.1444E+15
Y-92	2.6351E+00	2.7385E-10	1.7926E+15	1.7930E+16
Y-93	1.2515E-01	3.7512E-11	2.4291E+14	7.4648E+14
Zr-95	3.9424E-01	1.8351E-08	1.1633E+17	1.2507E+15
Zr-97	1.9873E-01	1.0396E-10	6.4539E+14	9.0943E+14
Nb-95	3.9164E-01	1.0015E-08	6.3489E+16	1.2375E+15
Mo-99	4.2371E+00	8.8345E-09	5.3740E+16	1.4681E+16
Tc-99m	4.1133E+00	7.8226E-10	4.7585E+15	1.3442E+16
Ru-103	4.2888E+00	1.3289E-07	7.7696E+17	1.3639E+16
Ru-105	2.5430E-01	3.7832E-11	2.1698E+14	3.7748E+15
Ru-106	1.8018E+00	5.3857E-07	3.0598E+18	5.6976E+15
Rh-105	2.3906E+00	2.8323E-09	1.6244E+16	8.5739E+15
Sb-127	4.4282E+00	1.6582E-08	7.8629E+16	1.4941E+16
Sb-129	1.1840E+00	2.1056E-10	9.8295E+14	1.8434E+16
Te-127	4.7738E+00	1.8089E-09	8.5773E+15	1.5290E+16
Te-127m	8.4452E-01	8.9532E-08	4.2455E+17	2.6687E+15
Te-129	3.8629E+00	1.8445E-10	8.6109E+14	2.3926E+16
Te-129m	2.7483E+00	9.1230E-08	4.2589E+17	8.7321E+15
Te-131m	7.2502E+00	9.0922E-09	4.1798E+16	2.8125E+16
Te-132	6.5330E+01	2.1519E-07	9.8174E+17	2.2309E+17
I-131	5.3672E+02	4.3293E-06	1.9902E+19	2.0970E+18
I-132	8.3093E+01	8.0500E-09	3.6726E+16	1.1137E+18
I-133	6.9068E+02	6.0971E-07	2.7607E+18	3.6068E+18
I-134	4.3289E-03	1.6227E-13	7.2928E+11	4.9902E+17
I-135	2.0779E+02	5.9168E-08	2.6394E+17	2.3151E+18
Xe-133	6.8175E+05	3.6422E-03	1.6492E+22	9.2684E+20
Xe-133m	1.8667E+04	4.2401E-05	1.9199E+20	2.6523E+19
Xe-135	1.1144E+05	4.3638E-05	1.9466E+20	2.3556E+20
Xe-135m	9.6369E+01	1.0586E-09	4.7223E+15	6.6910E+17
Cs-134	8.3138E+01	6.4257E-05	2.8878E+20	4.0833E+17
Cs-136	2.4502E+01	3.3431E-07	1.4804E+18	1.2295E+17
Cs-137	6.4582E+01	7.4247E-04	3.2637E+21	3.1708E+17
Ba-139	1.2994E-02	7.9443E-13	3.4418E+12	1.3688E+16
Ba-140	3.8069E+01	5.2001E-07	2.2368E+18	1.2269E+17
La-140	8.8044E+00	1.5840E-08	6.8137E+16	1.2634E+16
La-141	2.2045E-02	3.8980E-12	1.6648E+13	4.0965E+14
La-142	2.7312E-04	1.9080E-14	8.0915E+10	1.4355E+14
Ce-141	9.2154E-01	3.2342E-08	1.3813E+17	2.9325E+15
Ce-143	6.4946E-01	9.7797E-10	4.1185E+15	2.4719E+15
Ce-144	7.4578E-01	2.3382E-07	9.7786E+17	2.3587E+15
Pr-143	3.6787E-01	5.4629E-09	2.3006E+16	1.1415E+15
Nd-147	1.3913E-01	1.7198E-09	7.0454E+15	4.4981E+14
Np-239	8.7357E+00	3.7655E-08	9.4881E+16	3.0743E+16
Pu-238	2.3211E-03	1.3558E-07	3.4307E+17	7.3344E+12
Pu-239	2.3455E-04	3.7736E-06	9.5084E+18	7.4032E+11
Pu-240	4.1348E-04	1.8154E-07	4.5553E+17	1.3066E+12
Pu-241	9.1855E-02	9.2884E-07	2.3210E+18	2.9027E+14
Am-241	5.2210E-05	1.5240E-08	3.8082E+16	1.6452E+11
Cm-242	1.4236E-02	4.3007E-09	1.0702E+16	4.5055E+13
Cm-244	9.4391E-04	1.1532E-08	2.8462E+16	2.9828E+12

RB Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
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Noble gases (atoms)	1.2593E+23	0.0000E+00	
Elemental I (atoms)	5.5565E+17	0.0000E+00	
Organic I (atoms)	6.4842E+18	0.0000E+00	
Aerosols (kg)	8.3973E-04	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1981E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3500E-08
Total I (Ci)			1.5183E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9879E+23
Elemental I (atoms)	0.0000E+00	4.7793E+18
Organic I (atoms)	0.0000E+00	1.1154E+19
Aerosols (kg)	0.0000E+00	4.6657E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7370E+22
Elemental I (atoms)	0.0000E+00	1.2385E+17
Organic I (atoms)	0.0000E+00	5.3334E+18
Aerosols (kg)	0.0000E+00	2.9775E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6904E+23
Elemental I (atoms)	3.6344E+18	3.6711E+16
Organic I (atoms)	9.1917E+18	9.2846E+16
Aerosols (kg)	3.8263E-03	3.8649E-05

Environment Integral Nuclide Release:

Time (h) = 16.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8391E+03	1.8913E-07	1.3722E+18	1.4205E+14
Kr-85m	3.7633E+04	4.5729E-06	3.2399E+19	1.3924E+15
Kr-85	8.0560E+03	2.0553E-02	1.4561E+23	2.9807E+14
Kr-87	7.4903E+03	2.6444E-07	1.8304E+18	2.7714E+14
Kr-88	5.2649E+04	4.1987E-06	2.8733E+19	1.9480E+15
Rb-86	2.3946E-01	2.9429E-09	2.0608E+16	8.8600E+09
Rb-88	2.1689E+04	1.7967E-07	1.2295E+18	8.0248E+14
Sr-89	1.2810E+00	4.4092E-08	2.9835E+17	4.7396E+10
Sr-90	1.3745E-01	1.0076E-06	6.7424E+18	5.0857E+09
Sr-91	1.1325E+00	3.1243E-10	2.0676E+15	4.1904E+10
Sr-92	6.9421E-01	5.5230E-11	3.6152E+14	2.5686E+10
Y-90	7.3212E-03	1.3456E-11	9.0041E+13	2.7088E+08
Y-91	1.6984E-02	6.9256E-10	4.5832E+15	6.2841E+08
Y-92	2.0908E-01	2.1728E-11	1.4223E+14	7.7358E+09
Y-93	1.3071E-02	3.9178E-12	2.5369E+13	4.8363E+08
Zr-95	1.8966E-02	8.8284E-10	5.5964E+15	7.0174E+08
Zr-97	1.5001E-02	7.8472E-12	4.8718E+13	5.5505E+08
Nb-95	1.8750E-02	4.7951E-10	3.0397E+15	6.9376E+08
Mo-99	2.2719E-01	4.7369E-10	2.8814E+15	8.4060E+09
Tc-99m	2.0773E-01	3.9506E-11	2.4031E+14	7.6861E+09
Ru-103	2.0695E-01	6.4124E-09	3.7492E+16	7.6573E+09
Ru-105	8.0037E-02	1.1907E-11	6.8289E+13	2.9614E+09
Ru-106	8.6338E-02	2.5807E-08	1.4661E+17	3.1945E+09
Rh-105	1.3232E-01	1.5677E-10	8.9912E+14	4.8959E+09
Sb-127	2.2982E-01	8.6058E-10	4.0807E+15	8.5033E+09
Sb-129	3.9453E-01	7.0158E-11	3.2752E+14	1.4597E+10
Te-127	2.3431E-01	8.8784E-11	4.2100E+14	8.6695E+09
Te-127m	4.0434E-02	4.2866E-09	2.0327E+16	1.4961E+09
Te-129	4.6719E-01	2.2308E-11	1.0414E+14	1.7286E+10
Te-129m	1.3240E-01	4.3948E-09	2.0516E+16	4.8986E+09
Te-131m	4.4672E-01	5.6022E-10	2.5753E+15	1.6529E+10

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Te-132	3.4410E+00	1.1334E-08	5.1709E+16	1.2732E+11
I-131	1.0829E+02	8.7352E-07	4.0156E+18	4.0069E+12
I-132	1.2099E+02	1.1722E-08	5.3477E+16	4.4767E+12
I-133	2.1376E+02	1.8870E-07	8.5442E+17	7.9092E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8401E+02	5.2396E-08	2.3373E+17	6.8082E+12
Xe-133	9.3770E+05	5.0096E-03	2.2683E+22	3.4695E+16
Xe-133m	2.6795E+04	6.0863E-05	2.7558E+20	9.9143E+14
Xe-135	2.3569E+05	9.2293E-05	4.1171E+20	8.7206E+15
Xe-135m	5.4126E+02	5.9458E-09	2.6523E+16	2.0027E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.4002E+01	1.8551E-05	8.3372E+19	8.8809E+11
Cs-136	7.2987E+00	9.9586E-08	4.4097E+17	2.7005E+11
Cs-137	1.8635E+01	2.1424E-04	9.4176E+20	6.8951E+11
Ba-139	5.4549E-01	3.3349E-11	1.4448E+14	2.0183E+10
Ba-140	1.8674E+00	2.5507E-08	1.0972E+17	6.9093E+10
La-140	1.4293E-01	2.5714E-10	1.1061E+15	5.2882E+09
La-141	9.0705E-03	1.6039E-12	6.8502E+12	3.3561E+08
La-142	5.2688E-03	3.6806E-13	1.5609E+12	1.9495E+08
Ce-141	4.4491E-02	1.5615E-09	6.6690E+15	1.6462E+09
Ce-143	3.9091E-02	5.8864E-11	2.4789E+14	1.4464E+09
Ce-144	3.5744E-02	1.1207E-08	4.6868E+16	1.3225E+09
Pr-143	1.7223E-02	2.5577E-10	1.0771E+15	6.3726E+08
Nd-147	6.8511E-03	8.4687E-11	3.4694E+14	2.5349E+08
Np-239	4.7749E-01	2.0582E-09	5.1861E+15	1.7667E+10
Pu-238	1.1112E-04	6.4910E-09	1.6424E+16	4.1116E+06
Pu-239	1.1214E-05	1.8041E-07	4.5459E+17	4.1491E+05
Pu-240	1.9796E-05	8.6916E-09	2.1809E+16	7.3246E+05
Pu-241	4.3980E-03	4.4472E-08	1.1113E+17	1.6272E+08
Am-241	2.4913E-06	7.2722E-10	1.8172E+15	9.2179E+04
Cm-242	6.8288E-04	2.0629E-10	5.1336E+14	2.5267E+07
Cm-244	4.5194E-05	5.5214E-10	1.3627E+15	1.6722E+06

Environment Transport Group Inventory:

	Total Release	Release Rate/s
Time (h) = 16.0000		
Noble gases (atoms)	1.6905E+23	2.9348E+18
Elemental I (atoms)	2.4354E+17	4.2281E+12
Organic I (atoms)	1.0292E+17	1.7868E+12
Aerosols (kg)	2.3553E-04	4.0890E-09
Dose Effective (Ci) I-131 (Thyroid)		1.5006E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.8748E+02
Total I (Ci)		7.6616E+02

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 16.0000		
Noble gases (atoms)	0.0000E+00	2.7601E+18
Elemental I (atoms)	1.9280E+14	1.9651E+12
Organic I (atoms)	1.1131E+13	1.1298E+11
Aerosols (kg)	1.8331E-07	1.8683E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 16.0000		
Noble gases (atoms)	0.0000E+00	5.1112E+17
Elemental I (atoms)	0.0000E+00	3.6070E+13
Organic I (atoms)	0.0000E+00	2.0823E+12
Aerosols (kg)	0.0000E+00	3.4295E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 16.0000		
Noble gases (atoms)	2.4435E+18	0.0000E+00
Elemental I (atoms)	2.5625E+13	0.0000E+00
Organic I (atoms)	1.4492E+12	0.0000E+00
Aerosols (kg)	2.5401E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 16.0000		
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17

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Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6904E+23
Elemental I (atoms)	3.6344E+18	3.6711E+16
Organic I (atoms)	9.1917E+18	9.2846E+16
Aerosols (kg)	3.8263E-03	3.8649E-05

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	8.8553E-04	4.3624E-14	3.1652E+11	3.1698E+13
Kr-85m	6.5184E-02	7.9208E-12	5.6118E+13	3.0603E+14
Kr-85	3.9173E-02	9.9938E-08	7.0805E+17	6.1830E+13
Kr-87	2.5500E-04	9.0024E-15	6.2315E+10	6.2407E+13
Kr-88	4.2781E-02	3.4118E-12	2.3348E+13	4.3325E+14
Rb-86	1.5582E-07	1.9150E-15	1.3410E+10	1.3471E+10
Rb-88	1.2428E-01	1.0295E-12	7.0451E+12	3.5977E+14
Sr-89	6.2186E-07	2.1405E-14	1.4484E+11	2.9521E+10
Sr-90	6.7133E-08	4.9216E-13	3.2931E+12	3.1648E+09
Sr-91	2.4070E-07	6.6400E-17	4.3942E+08	2.8288E+10
Sr-92	1.3374E-08	1.0640E-18	6.9650E+06	1.7418E+10
Y-90	1.0648E-08	1.9571E-17	1.3095E+08	1.3162E+08
Y-91	9.1517E-09	3.7317E-16	2.4696E+09	3.8796E+08
Y-92	6.5379E-08	6.7945E-18	4.4475E+07	7.1772E+09
Y-93	2.9267E-09	8.7722E-19	5.6804E+06	3.2548E+08
Zr-95	9.2192E-09	4.2914E-16	2.7204E+09	4.3700E+08
Zr-97	4.6472E-09	2.4310E-18	1.5092E+07	3.6454E+08
Nb-95	9.1583E-09	2.3421E-16	1.4847E+09	4.3170E+08
Mo-99	9.9085E-08	2.0659E-16	1.2567E+09	5.3154E+09
Tc-99m	9.6189E-08	1.8293E-17	1.1128E+08	4.7993E+09
Ru-103	1.0029E-07	3.1076E-15	1.8169E+10	4.7707E+09
Ru-105	5.9468E-09	8.8468E-19	5.0740E+06	2.0526E+09
Ru-106	4.2135E-08	1.2594E-14	7.1552E+10	1.9882E+09
Rh-105	5.5904E-08	6.6233E-17	3.7987E+08	3.1107E+09
Sb-127	1.0355E-07	3.8776E-16	1.8387E+09	5.3532E+09
Sb-129	2.7689E-08	4.9238E-18	2.2986E+07	1.0118E+10
Te-127	1.1163E-07	4.2300E-17	2.0058E+08	5.3973E+09
Te-127m	1.9749E-08	2.0937E-15	9.9279E+09	9.3097E+08
Te-129	9.0333E-08	4.3134E-18	2.0136E+07	1.1663E+10
Te-129m	6.4269E-08	2.1334E-15	9.9593E+09	3.0512E+09
Te-131m	1.6954E-07	2.1262E-16	9.7742E+08	1.0632E+10
Te-132	1.5277E-06	5.0322E-15	2.2958E+10	8.0314E+10
I-131	6.7878E-05	5.4752E-13	2.5170E+12	5.8793E+12
I-132	2.6073E-06	2.5259E-16	1.1524E+09	4.1348E+12
I-133	8.7447E-05	7.7195E-14	3.4953E+11	1.1090E+13
I-134	5.4809E-10	2.0546E-20	9.2334E+04	2.8930E+12
I-135	2.6308E-05	7.4912E-15	3.3417E+10	8.5217E+12
Xe-133	4.4269E+00	2.3650E-08	1.0709E+17	7.2160E+15
Xe-133m	1.2121E-01	2.7531E-10	1.2466E+15	2.0698E+14
Xe-135	7.2296E-01	2.8310E-10	1.2629E+15	1.8629E+15
Xe-135m	2.3961E-05	2.6321E-16	1.1741E+09	4.5445E+12
Cs-134	1.5963E-05	1.2338E-11	5.5447E+13	1.3538E+12
Cs-136	4.7045E-06	6.4189E-14	2.8423E+11	4.1012E+11
Cs-137	1.2400E-05	1.4256E-10	6.2664E+14	1.0511E+12
Ba-139	3.0387E-10	1.8578E-20	8.0487E+04	1.1868E+10
Ba-140	8.9024E-07	1.2160E-14	5.2308E+10	4.3150E+10
La-140	2.1312E-07	3.8342E-16	1.6493E+09	2.5475E+09
La-141	5.1551E-10	9.1154E-20	3.8932E+05	2.3241E+08
Ce-141	2.1545E-08	7.5612E-16	3.2294E+09	1.0255E+09
Ce-143	1.5187E-08	2.2870E-17	9.6311E+07	9.2789E+08
Ce-144	1.7440E-08	5.4679E-15	2.2867E+10	8.2314E+08
Pr-143	8.6177E-09	1.2798E-16	5.3894E+08	3.9557E+08
Nd-147	3.2535E-09	4.0217E-17	1.6475E+08	1.5840E+08
Np-239	2.0428E-07	8.8056E-16	2.2188E+09	1.1200E+10
Pu-238	5.4279E-11	3.1706E-15	8.0225E+09	2.5586E+06
Pu-239	5.4849E-12	8.8244E-14	2.2235E+11	2.5814E+05
Pu-240	9.6691E-12	4.2453E-15	1.0652E+10	4.5580E+05
Pu-241	2.1480E-09	2.1721E-14	5.4276E+10	1.0126E+08
Am-241	1.2210E-12	3.5642E-16	8.9064E+08	5.7336E+04
Cm-242	3.3291E-10	1.0057E-16	2.5027E+08	1.5728E+07
Cm-244	2.2073E-11	2.6967E-16	6.6558E+08	1.0406E+06

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Time (h) = 16.0000	Atmosphere	Sump	
Noble gases (atoms)	8.1772E+17	0.0000E+00	
Elemental I (atoms)	1.3637E+11	0.0000E+00	
Organic I (atoms)	5.6237E+10	0.0000E+00	
Aerosols (kg)	1.5726E-10	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		7.7128E-15
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		8.6698E-15
Total I (Ci)			1.8424E-04

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0702E+13
Organic I (atoms)	0.0000E+00	6.0526E+11
Aerosols (kg)	0.0000E+00	1.0609E-08

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7601E+18
Elemental I (atoms)	1.9280E+14	1.9651E+12
Organic I (atoms)	1.1131E+13	1.1298E+11
Aerosols (kg)	1.8331E-07	1.8683E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1112E+17
Elemental I (atoms)	0.0000E+00	3.6070E+13
Organic I (atoms)	0.0000E+00	2.0823E+12
Aerosols (kg)	0.0000E+00	3.4295E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	2.4435E+18	0.0000E+00
Elemental I (atoms)	2.5625E+13	0.0000E+00
Organic I (atoms)	1.4492E+12	0.0000E+00
Aerosols (kg)	2.5401E-08	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1196E-01	6.9001E-02	3.1515E-01
Accumulated dose (rem)	1.5106E+00	6.0077E+00	1.7690E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7018E-03	6.4859E-04	5.7317E-03
Accumulated dose (rem)	3.1832E-01	8.6126E-01	3.5555E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2181E-02	3.1310E-02	1.7798E-02
Accumulated dose (rem)	7.3409E-02	7.8260E+00	4.4601E-01

DW Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	1.3036E+03	6.4218E-08	4.6594E+17	2.7901E+21
Kr-85m	5.4863E+05	6.6666E-05	4.7232E+20	1.7183E+22
Kr-85	1.1367E+06	2.9000E+00	2.0546E+25	3.5645E+21
Kr-87	9.4506E+01	3.3364E-09	2.3095E+16	7.6226E+21
Kr-88	1.7618E+05	1.4051E-05	9.6153E+19	2.8755E+22
Rb-86	5.5267E+01	6.7923E-07	4.7563E+18	7.7486E+17
Rb-88	5.3388E+05	4.4226E-06	3.0265E+19	2.0718E+22
Sr-89	3.1090E+03	1.0702E-04	7.2411E+20	2.7666E+19
Sr-90	3.3717E+02	2.4718E-03	1.6539E+22	2.9684E+18
Sr-91	6.7437E+02	1.8603E-07	1.2311E+18	2.5659E+19
Sr-92	6.6805E+00	6.9060E-10	4.5205E+15	1.8332E+19
Y-90	7.4790E+01	1.3747E-07	9.1982E+17	1.3784E+17
Y-91	4.6694E+01	1.9040E-06	1.2600E+19	3.6107E+17
Y-92	8.2271E+01	8.5500E-09	5.5967E+16	1.5808E+18

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Y-93	8.4889E+00	2.5444E-09	1.6476E+16	2.9492E+17
Zr-95	4.6136E+01	2.1476E-06	1.3614E+19	4.0962E+17
Zr-97	1.6812E+01	8.7942E-09	5.4598E+16	3.3050E+17
Nb-95	4.5996E+01	1.1763E-06	7.4565E+18	4.0490E+17
Mo-99	4.5755E+02	9.5399E-07	5.8031E+18	4.9187E+18
Tc-99m	4.5831E+02	8.7160E-08	5.3019E+17	4.4275E+18
Ru-103	5.0076E+02	1.5516E-05	9.0718E+19	4.4699E+18
Ru-105	8.5666E+00	1.2744E-09	7.3092E+15	1.9653E+18
Ru-106	2.1149E+02	6.3215E-05	3.5914E+20	1.8646E+18
Rh-105	2.4248E+02	2.8728E-07	1.6477E+18	2.8416E+18
Sb-127	4.8980E+02	1.8341E-06	8.6970E+18	4.9710E+18
Sb-129	3.8526E+01	6.8510E-09	3.1983E+16	9.7247E+18
Te-127	5.4653E+02	2.0709E-07	9.8198E+17	5.0155E+18
Te-127m	9.9171E+01	1.0514E-05	4.9854E+19	8.7318E+17
Te-129	3.3141E+02	1.5825E-08	7.3876E+16	1.0749E+19
Te-129m	3.2069E+02	1.0645E-05	4.9696E+19	2.8581E+18
Te-131m	7.0782E+02	8.8766E-07	4.0806E+18	9.7264E+18
Te-132	7.1477E+03	2.3544E-05	1.0741E+20	7.4459E+19
I-131	5.5126E+04	4.4465E-04	2.0441E+21	4.7566E+20
I-132	8.5897E+03	8.3216E-07	3.7965E+18	4.9086E+20
I-133	5.5883E+04	4.9331E-05	2.2337E+20	8.6208E+20
I-134	8.1870E-04	3.0690E-14	1.3792E+11	4.0502E+20
I-135	9.4858E+03	2.7011E-06	1.2049E+19	6.5930E+20
Xe-133	1.2308E+08	6.5753E-01	2.9772E+24	4.1109E+23
Xe-133m	3.1715E+06	7.2038E-03	3.2618E+22	1.1612E+22
Xe-135	1.1411E+07	4.4682E-03	1.9932E+22	9.8677E+22
Xe-135m	4.4002E+03	4.8337E-08	2.1562E+17	1.5869E+21
Cs-134	5.7306E+03	4.4292E-03	1.9905E+22	7.7890E+19
Cs-136	1.6599E+03	2.2648E-05	1.0029E+20	2.3589E+19
Cs-137	4.4528E+03	5.1193E-02	2.2503E+23	6.0478E+19
Ba-139	2.7315E-02	1.6699E-12	7.2348E+12	1.5451E+19
Ba-140	4.3908E+03	5.9977E-05	2.5799E+20	4.0342E+19
La-140	1.4625E+03	2.6312E-06	1.1318E+19	2.6049E+18
La-141	6.3149E-01	1.1166E-10	4.7691E+14	2.2665E+17
La-142	8.7924E-04	6.1421E-14	2.6048E+11	1.4831E+17
Ce-141	1.0749E+02	3.7724E-06	1.6112E+19	9.6092E+17
Ce-143	6.4479E+01	9.7096E-08	4.0890E+17	8.5017E+17
Ce-144	8.7520E+01	2.7440E-05	1.1476E+20	7.7195E+17
Pr-143	4.3632E+01	6.4794E-07	2.7287E+18	3.7090E+17
Nd-147	1.6000E+01	1.9778E-07	8.1024E+17	1.4802E+17
Np-239	9.3012E+02	4.0093E-06	1.0102E+19	1.0344E+19
Pu-238	2.7263E-01	1.5925E-05	4.0295E+19	2.3998E+15
Pu-239	2.7574E-02	4.4362E-04	1.1178E+21	2.4216E+14
Pu-240	4.8563E-02	2.1322E-05	5.3501E+19	4.2752E+14
Pu-241	1.0788E+01	1.0909E-04	2.7259E+20	9.4979E+16
Am-241	6.1474E-03	1.7944E-06	4.4840E+18	5.3795E+13
Cm-242	1.6697E+00	5.0440E-07	1.2552E+18	1.4748E+16
Cm-244	1.1086E-01	1.3544E-06	3.3427E+18	9.7601E+14

DW Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	2.3577E+25	0.0000E+00
Elemental I (atoms)	1.0705E+19	7.8121E+22
Organic I (atoms)	1.1457E+21	0.0000E+00
Aerosols (kg)	5.9300E-02	6.5810E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		7.4681E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		8.2073E-06
Total I (Ci)		1.2908E+05

DW to WW Transport Group Inventory:

Time (h) = 24.0000 Leakage Transport

Noble gases (atoms)	1.9678E+28
Elemental I (atoms)	1.5382E+22
Organic I (atoms)	1.0439E+24
Aerosols (kg)	5.3347E+01

WW to DW Transport Group Inventory:

Time (h) = 24.0000 Leakage Transport

Noble gases (atoms)	1.9820E+28
Elemental I (atoms)	1.9505E+22
Organic I (atoms)	1.0523E+24
Aerosols (kg)	5.6701E+01

DW to RB Transport Group Inventory:

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Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0108E+23
Elemental I (atoms)	0.0000E+00	4.8272E+18
Organic I (atoms)	0.0000E+00	1.6277E+19
Aerosols (kg)	0.0000E+00	4.9221E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7270E+22
Elemental I (atoms)	0.0000E+00	2.7610E+17
Organic I (atoms)	0.0000E+00	1.4706E+18
Aerosols (kg)	0.0000E+00	2.9329E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.3945E+22
Elemental I (atoms)	0.0000E+00	7.4867E+17
Organic I (atoms)	0.0000E+00	3.9876E+18
Aerosols (kg)	0.0000E+00	7.9528E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.3945E+22
Elemental I (atoms)	0.0000E+00	7.4867E+17
Organic I (atoms)	0.0000E+00	3.9876E+18
Aerosols (kg)	0.0000E+00	7.9528E-04

RB Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	7.5827E+00	3.7355E-10	2.7103E+15	3.9746E+18
Kr-85m	3.1913E+03	3.8778E-07	2.7474E+18	4.4381E+19
Kr-85	6.6121E+03	1.6869E-02	1.1951E+23	1.4788E+19
Kr-87	5.4973E-01	1.9407E-11	1.3434E+14	7.7905E+18
Kr-88	1.0248E+03	8.1730E-08	5.5931E+17	5.6608E+19
Rb-86	4.9260E-01	6.0540E-09	4.2393E+16	4.6904E+15
Rb-88	3.1055E+03	2.5725E-08	1.7605E+17	6.0882E+19
Sr-89	2.1442E+01	7.3805E-07	4.9940E+18	1.0924E+17
Sr-90	2.3254E+00	1.7047E-05	1.1407E+20	1.1754E+16
Sr-91	4.6509E+00	1.2830E-09	8.4906E+15	7.1425E+16
Sr-92	5.9867E-02	4.7629E-12	3.1177E+13	2.6882E+16
Y-90	5.1783E-01	9.5178E-10	6.3686E+15	1.1231E+15
Y-91	3.2254E-01	1.3152E-08	8.7037E+16	1.5111E+15
Y-92	5.7210E-01	5.9456E-11	3.8918E+14	1.9323E+16
Y-93	5.8546E-02	1.7548E-11	1.1363E+14	8.3728E+14
Zr-95	3.1819E-01	1.4811E-08	9.3889E+16	1.6184E+15
Zr-97	1.1595E-01	6.0651E-11	3.7655E+14	1.0686E+15
Nb-95	3.1722E-01	8.1124E-09	5.1425E+16	1.6032E+15
Mo-99	3.1556E+00	6.5794E-09	4.0022E+16	1.8483E+16
Tc-99m	3.1608E+00	6.0112E-10	3.6566E+15	1.7001E+16
Ru-103	3.4536E+00	1.0701E-07	6.2566E+17	1.7635E+16
Ru-105	5.9081E-02	8.7892E-12	5.0409E+13	3.9133E+15
Ru-106	1.4586E+00	4.3598E-07	2.4769E+18	7.3807E+15
Rh-105	1.6723E+00	1.9813E-09	1.1364E+16	1.0657E+16
Sb-127	3.3780E+00	1.2649E-08	5.9981E+16	1.8961E+16
Sb-129	2.6570E-01	4.7250E-11	2.2058E+14	1.9070E+16
Te-127	3.7692E+00	1.4282E-09	6.7724E+15	1.9547E+16
Te-127m	6.8395E-01	7.2510E-08	3.4383E+17	3.4576E+15
Te-129	2.2856E+00	1.0914E-10	5.0950E+14	2.6286E+16
Te-129m	2.2117E+00	7.3418E-08	3.4274E+17	1.1292E+16
Te-131m	4.8817E+00	6.1219E-09	2.8143E+16	3.4329E+16
Te-132	4.9296E+01	1.6237E-07	7.4079E+17	2.8209E+17
I-131	3.9779E+02	3.2087E-06	1.4750E+19	2.5743E+18
I-132	5.9229E+01	5.7380E-09	2.6178E+16	1.1767E+18
I-133	4.0334E+02	3.5605E-07	1.6122E+18	4.1563E+18
I-134	5.9089E-06	2.2150E-16	9.9546E+08	4.9902E+17
I-135	6.8463E+01	1.9495E-08	8.6964E+16	2.4441E+18
Xe-133	7.1593E+05	3.8248E-03	1.7318E+22	1.6825E+21
Xe-133m	1.8449E+04	4.1904E-05	1.8974E+20	4.6597E+19
Xe-135	6.6394E+04	2.5999E-05	1.1598E+20	3.2968E+20
Xe-135m	3.1759E+01	3.4887E-10	1.5562E+15	6.9077E+17
Cs-134	5.1077E+01	3.9477E-05	1.7742E+20	4.7473E+17

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Cs-136	1.4795E+01	2.0186E-07	8.9385E+17	1.4236E+17
Cs-137	3.9688E+01	4.5628E-04	2.0057E+21	3.6867E+17
Ba-139	1.8838E-04	1.1517E-14	4.9897E+10	1.3691E+16
Ba-140	3.0282E+01	4.1365E-07	1.7793E+18	1.5795E+17
La-140	1.0125E+01	1.8215E-08	7.8354E+16	2.2264E+16
La-141	4.3552E-03	7.7011E-13	3.2891E+12	4.2094E+14
La-142	6.0639E-06	4.2360E-16	1.7965E+09	1.4363E+14
Ce-141	7.4129E-01	2.6016E-08	1.1111E+17	3.7907E+15
Ce-143	4.4470E-01	6.6964E-10	2.8201E+15	3.0320E+15
Ce-144	6.0360E-01	1.8925E-07	7.9144E+17	3.0553E+15
Pr-143	3.0100E-01	4.4700E-09	1.8824E+16	1.4864E+15
Nd-147	1.1035E-01	1.3640E-09	5.5880E+15	5.7849E+14
Np-239	6.4148E+00	2.7651E-08	6.9672E+16	3.8531E+16
Pu-238	1.8802E-03	1.0983E-07	2.7790E+17	9.5033E+12
Pu-239	1.9017E-04	3.0595E-06	7.7091E+18	9.5957E+11
Pu-240	3.3492E-04	1.4705E-07	3.6898E+17	1.6929E+12
Pu-241	7.4400E-02	7.5234E-07	1.8800E+18	3.7610E+14
Am-241	4.2398E-05	1.2376E-08	3.0925E+16	2.1336E+11
Cm-242	1.1515E-02	3.4787E-09	8.6567E+15	5.8348E+13
Cm-244	7.6456E-04	9.3407E-09	2.3054E+16	3.8648E+12

RB Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	1.3714E+23	0.0000E+00	
Elemental I (atoms)	2.1914E+17	0.0000E+00	
Organic I (atoms)	6.6712E+18	0.0000E+00	
Aerosols (kg)	5.2156E-04	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			8.5058E-09
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			9.3464E-09
Total I (Ci)			9.2882E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0108E+23
Elemental I (atoms)	0.0000E+00	4.8272E+18
Organic I (atoms)	0.0000E+00	1.6277E+19
Aerosols (kg)	0.0000E+00	4.9221E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5166E+23
Elemental I (atoms)	0.0000E+00	1.4925E+17
Organic I (atoms)	0.0000E+00	8.0522E+18
Aerosols (kg)	0.0000E+00	4.3388E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1354E+23
Elemental I (atoms)	4.0195E+18	4.0601E+16
Organic I (atoms)	1.6367E+19	1.6532E+17
Aerosols (kg)	4.5295E-03	4.5753E-05

Environment Integral Nuclide Release:

Time (h) = 24.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8796E+03	1.9112E-07	1.3867E+18	1.4354E+14
Kr-85m	4.3705E+04	5.3108E-06	3.7626E+19	1.6171E+15
Kr-85	1.4999E+04	3.8265E-02	2.7110E+23	5.5495E+14
Kr-87	7.4978E+03	2.6470E-07	1.8323E+18	2.7742E+14
Kr-88	5.5550E+04	4.4301E-06	3.0317E+19	2.0553E+15
Rb-86	2.4625E-01	3.0263E-09	2.1192E+16	9.1111E+09
Rb-88	2.9420E+04	2.4372E-07	1.6678E+18	1.0886E+15
Sr-89	1.5375E+00	5.2923E-08	3.5810E+17	5.6889E+10

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Sr-90	1.6522E-01	1.2112E-06	8.1045E+18	6.1130E+09
Sr-91	1.2060E+00	3.3268E-10	2.2016E+15	4.4621E+10
Sr-92	6.9634E-01	5.5400E-11	3.6264E+14	2.5765E+10
Y-90	1.2641E-02	2.3234E-11	1.5547E+14	4.6771E+08
Y-91	2.0796E-02	8.4797E-10	5.6116E+15	7.6944E+08
Y-92	2.2263E-01	2.3137E-11	1.5145E+14	8.2373E+09
Y-93	1.3979E-02	4.1901E-12	2.7133E+13	5.1724E+08
Zr-95	2.2772E-02	1.0600E-09	6.7194E+15	8.4255E+08
Zr-97	1.6616E-02	8.6917E-12	5.3961E+13	6.1478E+08
Nb-95	2.2538E-02	5.7638E-10	3.6537E+15	8.3392E+08
Mo-99	2.6635E-01	5.5534E-10	3.3781E+15	9.8549E+09
Tc-99m	2.4648E-01	4.6875E-11	2.8514E+14	9.1199E+09
Ru-103	2.4830E-01	7.6936E-09	4.4983E+16	9.1872E+09
Ru-105	8.1363E-02	1.2104E-11	6.9420E+13	3.0104E+09
Ru-106	1.0379E-01	3.1014E-08	1.7620E+17	3.8391E+09
Rh-105	1.5371E-01	1.8210E-10	1.0444E+15	5.6871E+09
Sb-127	2.7128E-01	1.0158E-09	4.8169E+15	1.0037E+10
Sb-129	4.0060E-01	7.1239E-11	3.3257E+14	1.4822E+10
Te-127	2.7990E-01	1.0606E-10	5.0291E+14	1.0356E+10
Te-127m	4.8602E-02	5.1526E-09	2.4433E+16	1.7983E+09
Te-129	4.9837E-01	2.3797E-11	1.1109E+14	1.8440E+10
Te-129m	1.5888E-01	5.2741E-09	2.4621E+16	5.8787E+09
Te-131m	5.1021E-01	6.3984E-10	2.9414E+15	1.8878E+10
Te-132	4.0491E+00	1.3337E-08	6.0847E+16	1.4981E+11
I-131	1.1325E+02	9.1346E-07	4.1992E+18	4.1901E+12
I-132	1.2174E+02	1.1794E-08	5.3805E+16	4.5042E+12
I-133	2.1938E+02	1.9366E-07	8.7688E+17	8.1171E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8528E+02	5.2758E-08	2.3535E+17	6.8553E+12
Xe-133	1.7035E+06	9.1006E-03	4.1207E+22	6.3028E+16
Xe-133m	4.7057E+04	1.0689E-04	4.8398E+20	1.7411E+15
Xe-135	3.2769E+05	1.2832E-04	5.7241E+20	1.2125E+16
Xe-135m	5.4613E+02	5.9993E-09	2.6762E+16	2.0207E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.4702E+01	1.9092E-05	8.5803E+19	9.1397E+11
Cs-136	7.5031E+00	1.0237E-07	4.5332E+17	2.7761E+11
Cs-137	1.9179E+01	2.2049E-04	9.6923E+20	7.0962E+11
Ba-139	5.4552E-01	3.3351E-11	1.4449E+14	2.0184E+10
Ba-140	2.2320E+00	3.0488E-08	1.3114E+17	8.2583E+10
La-140	2.4805E-01	4.4628E-10	1.9197E+15	9.1779E+09
La-141	9.1775E-03	1.6228E-12	6.9310E+12	3.3957E+08
La-142	5.2694E-03	3.6810E-13	1.5611E+12	1.9497E+08
Ce-141	5.3371E-02	1.8731E-09	8.0000E+15	1.9747E+09
Ce-143	4.4829E-02	6.7505E-11	2.8428E+14	1.6587E+09
Ce-144	4.2955E-02	1.3468E-08	5.6322E+16	1.5893E+09
Pr-143	2.0802E-02	3.0892E-10	1.3010E+15	7.6969E+08
Nd-147	8.1814E-03	1.0113E-10	4.1431E+14	3.0271E+08
Np-239	5.5761E-01	2.4036E-09	6.0564E+15	2.0632E+10
Pu-238	1.3357E-04	7.8024E-09	1.9742E+16	4.9423E+06
Pu-239	1.3484E-05	2.1693E-07	5.4660E+17	4.9889E+05
Pu-240	2.3795E-05	1.0447E-08	2.6215E+16	8.8043E+05
Pu-241	5.2864E-03	5.3456E-08	1.3358E+17	1.9560E+08
Am-241	2.9970E-06	8.7483E-10	2.1860E+15	1.1089E+05
Cm-242	8.2047E-04	2.4786E-10	6.1680E+14	3.0357E+07
Cm-244	5.4323E-05	6.6368E-10	1.6380E+15	2.0100E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 24.0000	Release	Rate/s	
Noble gases (atoms)	3.1344E+23	3.6277E+18	
Elemental I (atoms)	2.4740E+17	2.8634E+12	
Organic I (atoms)	1.7484E+17	2.0237E+12	
Aerosols (kg)	2.4269E-04	2.8089E-09	
Dose Effective (Ci) I-131 (Thyroid)		1.5599E+02	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.9406E+02	
Total I (Ci)		7.7874E+02	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3068E+18
Elemental I (atoms)	1.9284E+14	1.9655E+12
Organic I (atoms)	1.1899E+13	1.2074E+11
Aerosols (kg)	1.8339E-07	1.8691E-09

CR Unfiltered Inleakage Transport Group Inventory:

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	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.9756E+17
Elemental I (atoms)	0.0000E+00	3.6078E+13
Organic I (atoms)	0.0000E+00	2.2260E+12
Aerosols (kg)	0.0000E+00	3.4309E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.1845E+18	0.0000E+00
Elemental I (atoms)	2.5718E+13	0.0000E+00
Organic I (atoms)	1.5565E+12	0.0000E+00
Aerosols (kg)	2.5513E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1354E+23
Elemental I (atoms)	4.0195E+18	4.0601E+16
Organic I (atoms)	1.6367E+19	1.6532E+17
Aerosols (kg)	4.5295E-03	4.5753E-05

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	5.0003E-05	2.4633E-15	1.7873E+10	3.2011E+13
Kr-85m	2.1044E-02	2.5572E-12	1.8117E+13	3.4807E+14
Kr-85	4.3602E-02	1.1124E-07	7.8811E+17	1.0634E+14
Kr-87	3.6251E-06	1.2798E-16	8.8587E+08	6.2471E+13
Kr-88	6.7581E-03	5.3895E-13	3.6882E+12	4.5427E+14
Rb-86	1.3027E-08	1.6010E-16	1.1211E+09	1.3520E+10
Rb-88	1.9642E-02	1.6271E-13	1.1135E+12	3.7805E+14
Sr-89	2.0453E-07	7.0402E-15	4.7637E+10	2.9850E+10
Sr-90	2.2181E-08	1.6261E-13	1.0881E+12	3.2003E+09
Sr-91	4.4364E-08	1.2238E-17	8.0991E+07	2.8389E+10
Sr-92	5.7106E-10	4.5432E-20	2.9739E+05	1.7421E+10
Y-90	4.9690E-09	9.1332E-18	6.1113E+07	1.3803E+08
Y-91	3.0841E-09	1.2576E-16	8.3225E+08	3.9284E+08
Y-92	5.5263E-09	5.7432E-19	3.7594E+06	7.1981E+09
Y-93	5.5846E-10	1.6739E-19	1.0839E+06	3.2673E+08
Zr-95	3.0351E-09	1.4128E-16	8.9559E+08	4.4188E+08
Zr-97	1.1060E-09	5.7854E-19	3.5918E+06	3.6670E+08
Nb-95	3.0259E-09	7.7383E-17	4.9054E+08	4.3655E+08
Mo-99	3.0100E-08	6.2760E-17	3.8176E+08	5.3661E+09
Tc-99m	3.0150E-08	5.7339E-18	3.4879E+07	4.8466E+09
Ru-103	3.2944E-08	1.0207E-15	5.9680E+09	4.8236E+09
Ru-105	5.6357E-10	8.3839E-20	4.8085E+05	2.0546E+09
Ru-106	1.3913E-08	4.1587E-15	2.3627E+10	2.0105E+09
Rh-105	1.5952E-08	1.8899E-17	1.0840E+08	3.1386E+09
Sb-127	3.2222E-08	1.2066E-16	5.7214E+08	5.4067E+09
Sb-129	2.5345E-09	4.5071E-19	2.1040E+06	1.0127E+10
Te-127	3.5954E-08	1.3624E-17	6.4601E+07	5.4538E+09
Te-127m	6.5241E-09	6.9166E-16	3.2797E+09	9.4143E+08
Te-129	2.1802E-08	1.0411E-18	4.8600E+06	1.1695E+10
Te-129m	2.1097E-08	7.0032E-16	3.2693E+09	3.0852E+09
Te-131m	4.6565E-08	5.8396E-17	2.6845E+08	1.0716E+10
Te-132	4.7022E-07	1.5489E-15	7.0663E+09	8.1100E+10
I-131	6.9706E-06	5.6226E-14	2.5847E+11	5.9019E+12
I-132	5.6833E-07	5.5059E-17	2.5119E+08	4.1358E+12
I-133	7.0739E-06	6.2446E-15	2.8275E+10	1.1117E+13
I-135	1.2008E-06	3.4191E-16	1.5252E+09	8.5286E+12
Xe-133	4.7210E+00	2.5222E-08	1.1420E+17	1.2138E+16
Xe-133m	1.2165E-01	2.7632E-10	1.2512E+15	3.3770E+14
Xe-135	4.3770E-01	1.7140E-10	7.6457E+14	2.4750E+15
Xe-135m	4.3684E-06	4.7987E-17	2.1406E+08	4.5814E+12

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Cs-134	1.3508E-06	1.0440E-12	4.6919E+12	1.3588E+12
Cs-136	3.9126E-07	5.3384E-15	2.3639E+10	4.1160E+11
Cs-137	1.0496E-06	1.2067E-11	5.3042E+13	1.0551E+12
Ba-140	2.8886E-07	3.9457E-15	1.6972E+10	4.3618E+10
La-140	9.7134E-08	1.7475E-16	7.5171E+08	2.6744E+09
La-141	4.1544E-11	7.3459E-21	3.1375E+04	2.3257E+08
Ce-141	7.0705E-09	2.4815E-16	1.0598E+09	1.0369E+09
Ce-143	4.2419E-09	6.3876E-18	2.6900E+07	9.3540E+08
Ce-144	5.7576E-09	1.8052E-15	7.5494E+09	8.3237E+08
Pr-143	2.8726E-09	4.2658E-17	1.7965E+08	4.0014E+08
Nd-147	1.0526E-09	1.3011E-17	5.3303E+07	1.6011E+08
Np-239	6.1189E-08	2.6376E-16	6.6459E+08	1.1304E+10
Pu-238	1.7935E-11	1.0476E-15	2.6508E+09	2.5873E+06
Pu-239	1.8140E-12	2.9184E-14	7.3536E+10	2.6104E+05
Pu-240	3.1948E-12	1.4027E-15	3.5197E+09	4.6092E+05
Pu-241	7.0969E-10	7.1764E-15	1.7933E+10	1.0240E+08
Am-241	4.0444E-13	1.1806E-16	2.9500E+08	5.7984E+04
Cm-242	1.0984E-10	3.3183E-17	8.2575E+07	1.5904E+07
Cm-244	7.2930E-12	8.9100E-17	2.1991E+08	1.0523E+06

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	9.0435E+17	0.0000E+00
Elemental I (atoms)	9.4949E+09	0.0000E+00
Organic I (atoms)	5.2189E+10	0.0000E+00
Aerosols (kg)	1.3552E-11	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	7.5877E-16
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.3253E-16
Total I (Ci)		1.5814E-05

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0741E+13
Organic I (atoms)	0.0000E+00	6.5010E+11
Aerosols (kg)	0.0000E+00	1.0656E-08

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3068E+18
Elemental I (atoms)	1.9284E+14	1.9655E+12
Organic I (atoms)	1.1899E+13	1.2074E+11
Aerosols (kg)	1.8339E-07	1.8691E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.9756E+17
Elemental I (atoms)	0.0000E+00	3.6078E+13
Organic I (atoms)	0.0000E+00	2.2260E+12
Aerosols (kg)	0.0000E+00	3.4309E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.1845E+18	0.0000E+00
Elemental I (atoms)	2.5718E+13	0.0000E+00
Organic I (atoms)	1.5565E+12	0.0000E+00
Aerosols (kg)	2.5513E-08	0.0000E+00

EAB Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6135E-01	9.6774E-02	3.6572E-01
Accumulated dose (rem)	1.8720E+00	6.1045E+00	2.1347E+00

LPZ Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8200E-03	4.9630E-04	2.8424E-03
Accumulated dose (rem)	3.2114E-01	8.6176E-01	3.5839E-01

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Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1164E-03	4.2407E-03	7.6826E-03
Accumulated dose (rem)	8.0526E-02	7.8302E+00	4.5370E-01

DW Compartment Nuclide Inventory:

Time (h) = 48.0000	Ci	kg	Atoms	Decay
Kr-83m	1.6874E-01	8.3125E-12	6.0312E+13	2.7905E+21
Kr-85m	1.3272E+04	1.6128E-06	1.1426E+19	1.7643E+22
Kr-85	1.1270E+06	2.8751E+00	2.0370E+25	7.1821E+21
Kr-87	1.9521E-04	6.8915E-15	4.7703E+10	7.6226E+21
Kr-88	4.9932E+02	3.9821E-08	2.7251E+17	2.8851E+22
Rb-86	5.2804E+01	6.4896E-07	4.5443E+18	9.4754E+17
Rb-88	1.5131E+03	1.2534E-08	8.5774E+16	2.0843E+22
Sr-89	3.0408E+03	1.0467E-04	7.0823E+20	3.7494E+19
Sr-90	3.3431E+02	2.4508E-03	1.6399E+22	4.0415E+18
Sr-91	1.1607E+02	3.2020E-08	2.1190E+17	2.6673E+19
Sr-92	1.8575E-02	1.4778E-12	9.6733E+12	1.8336E+19
Y-90	1.3412E+02	2.4652E-07	1.6496E+18	4.7032E+17
Y-91	4.7314E+01	1.9293E-06	1.2768E+19	5.1191E+17
Y-92	9.5827E-01	9.9588E-11	6.5188E+14	1.6405E+18
Y-93	1.6213E+00	4.8596E-10	3.1468E+15	3.0818E+17
Zr-95	4.5255E+01	2.1066E-06	1.3354E+19	5.5567E+17
Zr-97	6.2293E+00	3.2586E-09	2.0231E+16	3.6457E+17
Nb-95	4.5598E+01	1.1661E-06	7.3920E+18	5.5122E+17
Mo-99	3.5261E+02	7.3520E-07	4.4722E+18	6.2062E+18
Tc-99m	3.6084E+02	6.8624E-08	4.1744E+17	5.6692E+18
Ru-103	4.8787E+02	1.5116E-05	8.8381E+19	6.0497E+18
Ru-105	2.0042E-01	2.9816E-11	1.7101E+14	1.9724E+18
Ru-106	2.0932E+02	6.2565E-05	3.5545E+20	2.5371E+18
Rh-105	1.5095E+02	1.7884E-07	1.0257E+18	3.4595E+18
Sb-127	4.0566E+02	1.5190E-06	7.2029E+18	6.3978E+18
Sb-129	8.1226E-01	1.4444E-10	6.7431E+14	9.7559E+18
Te-127	4.8091E+02	1.8222E-07	8.6408E+17	6.6046E+18
Te-127m	9.8220E+01	1.0413E-05	4.9376E+19	1.1886E+18
Te-129	2.7054E+02	1.2918E-08	6.0307E+16	1.1443E+19
Te-129m	3.1155E+02	1.0342E-05	4.8278E+19	3.8684E+18
Te-131m	4.0312E+02	5.0554E-07	2.3240E+18	1.1456E+19
Te-132	5.7294E+03	1.8872E-05	8.6098E+19	9.4955E+19
I-131	5.0181E+04	4.0477E-04	1.8607E+21	6.4383E+20
I-132	6.8387E+03	6.6252E-07	3.0226E+18	5.1211E+20
I-133	2.4904E+04	2.1984E-05	9.9543E+19	9.8459E+20
I-135	7.5929E+02	2.1621E-07	9.6446E+17	6.7034E+20
Xe-133	1.0727E+08	5.7310E-01	2.5949E+24	7.7863E+23
Xe-133m	2.3049E+06	5.2355E-03	2.3706E+22	2.0291E+22
Xe-135	1.8170E+06	7.1150E-04	3.1739E+21	1.1537E+23
Xe-135m	3.5221E+02	3.8691E-09	1.7259E+16	1.5888E+21
Cs-134	5.6772E+03	4.3879E-03	1.9720E+22	9.6121E+19
Cs-136	1.5611E+03	2.1300E-05	9.4318E+19	2.8735E+19
Cs-137	4.4151E+03	5.0759E-02	2.2312E+23	7.4650E+19
Ba-139	1.5527E-07	9.4927E-18	4.1127E+07	1.5451E+19
Ba-140	4.1234E+03	5.6323E-05	2.4228E+20	5.3944E+19
La-140	2.4031E+03	4.3234E-06	1.8597E+19	8.7999E+18
La-141	9.0855E-03	1.6065E-12	6.8615E+12	2.2711E+17
La-142	1.7953E-08	1.2541E-18	5.3187E+06	1.4831E+17
Ce-141	1.0434E+02	3.6618E-06	1.5640E+19	1.2994E+18
Ce-143	3.8621E+01	5.8157E-08	2.4491E+17	1.0114E+18
Ce-144	8.6572E+01	2.7143E-05	1.1351E+20	1.0502E+18
Pr-143	4.3608E+01	6.4760E-07	2.7272E+18	5.1050E+17
Nd-147	1.4895E+01	1.8412E-07	7.5428E+17	1.9737E+17
Np-239	6.8713E+02	2.9619E-06	7.4632E+18	1.2909E+19
Pu-238	2.7036E-01	1.5793E-05	3.9960E+19	3.2676E+15
Pu-239	2.7405E-02	4.4090E-04	1.1109E+21	3.3002E+14
Pu-240	4.8154E-02	2.1142E-05	5.3051E+19	5.8209E+14
Pu-241	1.0696E+01	1.0815E-04	2.7026E+20	1.2931E+17
Am-241	6.1426E-03	1.7930E-06	4.4804E+18	7.3433E+13
Cm-242	1.6486E+00	4.9803E-07	1.2393E+18	2.0051E+16
Cm-244	1.0991E-01	1.3428E-06	3.3142E+18	1.3288E+15

DW Transport Group Inventory:

Time (h) = 48.0000	Atmosphere	Sump
Noble gases (atoms)	2.2992E+25	0.0000E+00
Elemental I (atoms)	9.2092E+18	7.8121E+22
Organic I (atoms)	9.8561E+20	0.0000E+00
Aerosols (kg)	5.8746E-02	6.5810E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		6.2728E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.5910E-06
Total I (Ci)		8.2683E+04

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DW to WW Transport Group Inventory:

Time (h) = 48.0000 Leakage Transport

Noble gases (atoms)	4.0567E+28
Elemental I (atoms)	2.4291E+22
Organic I (atoms)	1.9974E+24
Aerosols (kg)	1.0629E+02

WW to DW Transport Group Inventory:

Time (h) = 48.0000 Leakage Transport

Noble gases (atoms)	4.0709E+28
Elemental I (atoms)	2.8415E+22
Organic I (atoms)	2.0058E+24
Aerosols (kg)	1.0965E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5220E+23
Elemental I (atoms)	0.0000E+00	4.8916E+18
Organic I (atoms)	0.0000E+00	2.3175E+19
Aerosols (kg)	0.0000E+00	5.3051E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0925E+22
Elemental I (atoms)	0.0000E+00	2.8192E+17
Organic I (atoms)	0.0000E+00	2.0939E+18
Aerosols (kg)	0.0000E+00	3.2790E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1096E+23
Elemental I (atoms)	0.0000E+00	7.6445E+17
Organic I (atoms)	0.0000E+00	5.6771E+18
Aerosols (kg)	0.0000E+00	8.8909E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1096E+23
Elemental I (atoms)	0.0000E+00	7.6445E+17
Organic I (atoms)	0.0000E+00	5.6771E+18
Aerosols (kg)	0.0000E+00	8.8909E-04

RB Compartment Nuclide Inventory:

Time (h) = 48.0000	Ci	kg	Atoms	Decay
Kr-83m	5.3196E-04	2.6206E-14	1.9014E+11	3.9769E+18
Kr-85m	4.1842E+01	5.0843E-09	3.6022E+16	4.6429E+19
Kr-85	3.5528E+03	9.0640E-03	6.4217E+22	2.8575E+19
Kr-87	6.1539E-07	2.1726E-17	1.5039E+08	7.7906E+18
Kr-88	1.5741E+00	1.2554E-10	8.5910E+14	5.7059E+19
Rb-86	1.7276E-01	2.1232E-09	1.4868E+16	5.4986E+15
Rb-88	4.7700E+00	3.9514E-11	2.7041E+14	6.1475E+19
Sr-89	9.7128E+00	3.3432E-07	2.2622E+18	1.4966E+17
Sr-90	1.0678E+00	7.8282E-06	5.2381E+19	1.6164E+16
Sr-91	3.7075E-01	1.0228E-10	6.7683E+14	7.6047E+16
Sr-92	5.9330E-05	4.7202E-15	3.0898E+10	2.6907E+16
Y-90	4.2847E-01	7.8754E-10	5.2696E+15	2.4429E+15
Y-91	1.5115E-01	6.1632E-09	4.0787E+16	2.1305E+15
Y-92	3.0625E-03	3.1827E-13	2.0833E+12	1.9631E+16
Y-93	5.1786E-03	1.5522E-12	1.0051E+13	8.9736E+14
Zr-95	1.4455E-01	6.7286E-09	4.2653E+16	2.2189E+15
Zr-97	1.9897E-02	1.0408E-11	6.4619E+13	1.2171E+15
Nb-95	1.4565E-01	3.7247E-09	2.3611E+16	2.2045E+15
Mo-99	1.1263E+00	2.3483E-09	1.4285E+16	2.3855E+16
Tc-99m	1.1526E+00	2.1919E-10	1.3333E+15	2.2174E+16
Ru-103	1.5583E+00	4.8283E-08	2.8230E+17	2.4134E+16
Ru-105	6.4017E-04	9.5236E-14	5.4621E+11	3.9489E+15

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Ru-106	6.6858E-01	1.9984E-07	1.1353E+18	1.0144E+16
Rh-105	4.8215E-01	5.7123E-10	3.2762E+15	1.3268E+16
Sb-127	1.2957E+00	4.8519E-09	2.3007E+16	2.4888E+16
Sb-129	2.5945E-03	4.6137E-13	2.1538E+12	1.9228E+16
Te-127	1.5361E+00	5.8205E-10	2.7600E+15	2.6124E+16
Te-127m	3.1373E-01	3.3260E-08	1.5771E+17	4.7539E+15
Te-129	8.6414E-01	4.1263E-11	1.9263E+14	2.9173E+16
Te-129m	9.9512E-01	3.3033E-08	1.5421E+17	1.5449E+16
Te-131m	1.2876E+00	1.6147E-09	7.4230E+15	4.1680E+16
Te-132	1.8300E+01	6.0279E-08	2.7501E+17	3.6740E+17
I-131	1.6090E+02	1.2979E-06	5.9663E+18	3.2840E+18
I-132	2.1844E+01	2.1162E-09	9.6545E+15	1.2651E+18
I-133	7.9854E+01	7.0492E-08	3.1918E+17	4.6976E+18
I-135	2.4346E+00	6.9326E-10	3.0925E+15	2.4981E+18
Xe-133	3.3819E+05	1.8067E-03	8.1807E+21	3.0917E+21
Xe-133m	7.2665E+03	1.6505E-05	7.4734E+19	8.0158E+19
Xe-135	5.7283E+03	2.2431E-06	1.0006E+19	3.9891E+20
Xe-135m	1.1294E+00	1.2406E-11	5.5342E+13	6.9983E+17
Cs-134	1.8574E+01	1.4356E-05	6.4517E+19	5.5980E+17
Cs-136	5.1075E+00	6.9688E-08	3.0858E+17	1.6648E+17
Cs-137	1.4445E+01	1.6607E-04	7.2999E+20	4.3479E+17
Ba-139	4.9595E-10	3.0321E-20	1.3136E+05	1.3691E+16
Ba-140	1.3170E+01	1.7990E-07	7.7386E+17	2.1403E+17
La-140	7.6767E+00	1.3811E-08	5.9410E+16	4.6977E+16
La-141	2.9020E-05	5.1314E-15	2.1916E+10	4.2333E+14
La-142	5.7343E-11	4.0058E-21	1.6988E+04	1.4363E+14
Ce-141	3.3327E-01	1.1696E-08	4.9955E+16	5.1834E+15
Ce-143	1.2336E-01	1.8576E-10	7.8228E+14	3.7152E+15
Ce-144	2.7652E-01	8.6698E-08	3.6257E+17	4.1987E+15
Pr-143	1.3929E-01	2.0685E-09	8.7112E+15	2.0598E+15
Nd-147	4.7576E-02	5.8809E-10	2.4092E+15	7.8207E+14
Np-239	2.1948E+00	9.4606E-09	2.3838E+16	4.9260E+16
Pu-238	8.6357E-04	5.0443E-08	1.2764E+17	1.3069E+13
Pu-239	8.7533E-05	1.4083E-06	3.5485E+18	1.3206E+12
Pu-240	1.5381E-04	6.7531E-08	1.6945E+17	2.3281E+12
Pu-241	3.4163E-02	3.4546E-07	8.6324E+17	5.1718E+14
Am-241	1.9620E-05	5.7271E-09	1.4311E+16	2.9402E+11
Cm-242	5.2658E-03	1.5908E-09	3.9586E+15	8.0145E+13
Cm-244	3.5108E-04	4.2892E-09	1.0586E+16	5.3146E+12

RB Transport Group Inventory:

Time (h) = 48.0000	Atmosphere	Sump	
Noble gases (atoms)	7.2482E+22	0.0000E+00	
Elemental I (atoms)	3.4226E+16	0.0000E+00	
Organic I (atoms)	3.1074E+18	0.0000E+00	
Aerosols (kg)	1.9194E-04	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.1745E-09	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3355E-09	
Total I (Ci)		2.6503E+02	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5220E+23
Elemental I (atoms)	0.0000E+00	4.8916E+18
Organic I (atoms)	0.0000E+00	2.3175E+19
Aerosols (kg)	0.0000E+00	5.3051E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3159E+23
Elemental I (atoms)	0.0000E+00	1.8334E+17
Organic I (atoms)	0.0000E+00	1.1700E+19
Aerosols (kg)	0.0000E+00	6.3645E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

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	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0774E+23
Elemental I (atoms)	4.2884E+18	4.3317E+16
Organic I (atoms)	2.9753E+19	3.0053E+17
Aerosols (kg)	5.4354E-03	5.4903E-05

Environment Integral Nuclide Release:

Time (h) = 48.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8815E+03	1.9122E-07	1.3874E+18	1.4362E+14
Kr-85m	4.5684E+04	5.5513E-06	3.9330E+19	1.6903E+15
Kr-85	2.9287E+04	7.4719E-02	5.2937E+23	1.0836E+15
Kr-87	7.4979E+03	2.6471E-07	1.8323E+18	2.7742E+14
Kr-88	5.5967E+04	4.4633E-06	3.0544E+19	2.0708E+15
Rb-86	2.5470E-01	3.1303E-09	2.1920E+16	9.4240E+09
Rb-88	3.0531E+04	2.5292E-07	1.7308E+18	1.1297E+15
Sr-89	1.9580E+00	6.7397E-08	4.5604E+17	7.2447E+10
Sr-90	2.1110E-01	1.5476E-06	1.0355E+19	7.8108E+09
Sr-91	1.2526E+00	3.4554E-10	2.2867E+15	4.6345E+10
Sr-92	6.9657E-01	5.5418E-11	3.6275E+14	2.5773E+10
Y-90	2.6773E-02	4.9209E-11	3.2927E+14	9.9059E+08
Y-91	2.7249E-02	1.1111E-09	7.3531E+15	1.0082E+09
Y-92	2.2561E-01	2.3446E-11	1.5348E+14	8.3475E+09
Y-93	1.4586E-02	4.3720E-12	2.8311E+13	5.3970E+08
Zr-95	2.9020E-02	1.3508E-09	8.5631E+15	1.0737E+09
Zr-97	1.8135E-02	9.4862E-12	5.8894E+13	6.7098E+08
Nb-95	2.8798E-02	7.3646E-10	4.6685E+15	1.0655E+09
Mo-99	3.2200E-01	6.7136E-10	4.0839E+15	1.1914E+10
Tc-99m	3.0298E-01	5.7620E-11	3.5050E+14	1.1210E+10
Ru-103	3.1591E-01	9.7884E-09	5.7230E+16	1.1689E+10
Ru-105	8.1709E-02	1.2155E-11	6.9716E+13	3.0232E+09
Ru-106	1.3252E-01	3.9610E-08	2.2504E+17	4.9032E+09
Rh-105	1.8066E-01	2.1404E-10	1.2276E+15	6.6844E+09
Sb-127	3.3276E-01	1.2460E-09	5.9085E+15	1.2312E+10
Sb-129	4.0213E-01	7.1510E-11	3.3383E+14	1.4879E+10
Te-127	3.5058E-01	1.3284E-10	6.2992E+14	1.2972E+10
Te-127m	6.2093E-02	6.5828E-09	3.1214E+16	2.2974E+09
Te-129	5.3791E-01	2.5685E-11	1.1991E+14	1.9903E+10
Te-129m	2.0213E-01	6.7095E-09	3.1322E+16	7.4787E+09
Te-131m	5.8596E-01	7.3483E-10	3.3781E+15	2.1680E+10
Te-132	4.9334E+00	1.6250E-08	7.4137E+16	1.8254E+11
I-131	1.2063E+02	9.7301E-07	4.4730E+18	4.4632E+12
I-132	1.2279E+02	1.1896E-08	5.4272E+16	4.5433E+12
I-133	2.2494E+02	1.9857E-07	8.9910E+17	8.3227E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8582E+02	5.2911E-08	2.3603E+17	6.8752E+12
Xe-133	3.1606E+06	1.6885E-02	7.6456E+22	1.1694E+17
Xe-133m	8.1643E+04	1.8544E-04	8.3968E+20	3.0208E+15
Xe-135	3.9706E+05	1.5548E-04	6.9359E+20	1.4691E+16
Xe-135m	5.4819E+02	6.0219E-09	2.6863E+16	2.0283E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.5593E+01	1.9781E-05	8.8897E+19	9.4693E+11
Cs-136	7.7553E+00	1.0582E-07	4.6856E+17	2.8695E+11
Cs-137	1.9871E+01	2.2845E-04	1.0042E+21	7.3524E+11
Ba-139	5.4552E-01	3.3351E-11	1.4449E+14	2.0184E+10
Ba-140	2.8150E+00	3.8451E-08	1.6540E+17	1.0415E+11
La-140	5.1266E-01	9.2234E-10	3.9675E+15	1.8969E+10
La-141	9.2005E-03	1.6269E-12	6.9484E+12	3.4042E+08
La-142	5.2694E-03	3.6811E-13	1.5611E+12	1.9497E+08
Ce-141	6.7859E-02	2.3815E-09	1.0172E+16	2.5108E+09
Ce-143	5.1874E-02	7.8114E-11	3.2896E+14	1.9193E+09
Ce-144	5.4853E-02	1.7198E-08	7.1922E+16	2.0295E+09
Pr-143	2.6778E-02	3.9766E-10	1.6746E+15	9.9078E+08
Nd-147	1.0297E-02	1.2729E-10	5.2146E+14	3.8101E+08
Np-239	6.6868E-01	2.8823E-09	7.2627E+15	2.4741E+10
Pu-238	1.7068E-04	9.9698E-09	2.5227E+16	6.3152E+06
Pu-239	1.7240E-05	2.7737E-07	6.9890E+17	6.3790E+05
Pu-240	3.0405E-05	1.3349E-08	3.3497E+16	1.1250E+06
Pu-241	6.7545E-03	6.8302E-08	1.7067E+17	2.4992E+08
Am-241	3.8366E-06	1.1199E-09	2.7984E+15	1.4195E+05
Cm-242	1.0473E-03	3.1637E-10	7.8729E+14	3.8749E+07
Cm-244	6.9410E-05	8.4800E-10	2.0929E+15	2.5682E+06

Environment Transport Group Inventory:

Total	Release
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Time (h) = 48.0000	Release	Rate/s	
Noble gases (atoms)	6.0743E+23	3.5152E+18	
Elemental I (atoms)	2.5009E+17	1.4473E+12	
Organic I (atoms)	3.0924E+17	1.7896E+12	
Aerosols (kg)	2.5185E-04	1.4575E-09	
Dose Effective (Ci) I-131 (Thyroid)			1.6432E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			2.0301E+02
Total I (Ci)			7.9328E+02

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.5562E+18
Elemental I (atoms)	1.9286E+14	1.9657E+12
Organic I (atoms)	1.2922E+13	1.3108E+11
Aerosols (kg)	1.8346E-07	1.8698E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2141E+18
Elemental I (atoms)	0.0000E+00	3.6081E+13
Organic I (atoms)	0.0000E+00	2.4174E+12
Aerosols (kg)	0.0000E+00	3.4322E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	7.3770E+18	0.0000E+00
Elemental I (atoms)	2.5728E+13	0.0000E+00
Organic I (atoms)	1.7202E+12	0.0000E+00
Aerosols (kg)	2.5531E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0774E+23
Elemental I (atoms)	4.2884E+18	4.3317E+16
Organic I (atoms)	2.9753E+19	3.0053E+17
Aerosols (kg)	5.4354E-03	5.4903E-05

CR Compartment Nuclide Inventory:

Time (h) = 48.0000	Ci	kg	Atoms	Decay
Kr-83m	2.7078E-09	1.3339E-19	9.6785E+05	3.2026E+13
Kr-85m	2.1299E-04	2.5881E-14	1.8336E+11	3.6088E+14
Kr-85	1.8085E-02	4.6138E-08	3.2688E+17	1.8660E+14
Kr-88	8.0128E-06	6.3902E-16	4.3730E+09	4.5714E+14
Rb-86	1.0264E-09	1.2615E-17	8.8335E+07	1.3528E+10
Rb-88	2.3334E-05	1.9329E-16	1.3228E+09	3.8076E+14
Sr-89	5.6855E-08	1.9570E-15	1.3242E+10	3.0129E+10
Sr-90	6.2506E-09	4.5823E-14	3.0661E+11	3.2308E+09
Sr-91	2.1702E-09	5.9868E-19	3.9619E+06	2.8423E+10
Y-90	2.5083E-09	4.6103E-18	3.0849E+07	1.4695E+08
Y-91	8.8481E-10	3.6080E-17	2.3877E+08	3.9712E+08
Y-92	1.7932E-11	1.8636E-21	1.2199E+04	7.2005E+09
Y-93	3.0314E-11	9.0859E-21	5.8835E+04	3.2717E+08
Zr-95	8.4613E-10	3.9386E-17	2.4967E+08	4.4603E+08
Zr-97	1.1647E-10	6.0926E-20	3.7825E+05	3.6776E+08
Nb-95	8.5255E-10	2.1803E-17	1.3821E+08	4.4071E+08
Mo-99	6.5928E-09	1.3746E-17	8.3617E+07	5.4035E+09
Tc-99m	6.7466E-09	1.2831E-18	7.8048E+06	4.8826E+09
Ru-103	9.1216E-09	2.8263E-16	1.6525E+09	4.8686E+09
Ru-106	3.9136E-09	1.1698E-15	6.6458E+09	2.0296E+09
Rh-105	2.8223E-09	3.3437E-18	1.9178E+07	3.1570E+09

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Sb-127	7.5846E-09	2.8401E-17	1.3467E+08	5.4479E+09
Sb-129	1.5187E-11	2.7007E-21	1.2608E+04	1.0128E+10
Te-127	8.9916E-09	3.4071E-18	1.6156E+07	5.4994E+09
Te-127m	1.8364E-09	1.9469E-16	9.2318E+08	9.5039E+08
Te-129	5.0583E-09	2.4154E-19	1.1276E+06	1.1715E+10
Te-129m	5.8250E-09	1.9336E-16	9.0266E+08	3.1139E+09
Te-131m	7.5371E-09	9.4520E-18	4.3451E+07	1.0768E+10
Te-132	1.0712E-07	3.5285E-16	1.6098E+09	8.1694E+10
I-131	9.4445E-07	7.6181E-15	3.5021E+10	5.9078E+12
I-132	1.2786E-07	1.2387E-17	5.6513E+07	4.1364E+12
I-133	4.6873E-07	4.1378E-16	1.8735E+09	1.1121E+13
I-135	1.4291E-08	4.0693E-18	1.8153E+07	8.5291E+12
Xe-133	1.7214E+00	9.1966E-09	4.1642E+16	2.0369E+16
Xe-133m	3.6988E-02	8.4014E-11	3.8041E+14	5.3460E+14
Xe-135	2.9154E-02	1.1416E-11	5.0927E+13	2.8953E+15
Xe-135m	1.0258E-07	1.1268E-18	5.0265E+06	4.5923E+12
Cs-134	1.1036E-07	8.5294E-14	3.8332E+11	1.3597E+12
Cs-136	3.0346E-08	4.1404E-16	1.8334E+09	4.1185E+11
Cs-137	8.5823E-08	9.8667E-13	4.3371E+12	1.0558E+12
Ba-140	7.7094E-08	1.0531E-15	4.5298E+09	4.4006E+10
La-140	4.4940E-08	8.0852E-17	3.4779E+08	2.8419E+09
Ce-141	1.9508E-09	6.8465E-17	2.9241E+08	1.0465E+09
Ce-143	7.2209E-10	1.0874E-18	4.5792E+06	9.4020E+08
Ce-144	1.6186E-09	5.0749E-16	2.1224E+09	8.4027E+08
Pr-143	8.1538E-10	1.2109E-17	5.0993E+07	4.0410E+08
Nd-147	2.7849E-10	3.4425E-18	1.4103E+07	1.6152E+08
Np-239	1.2847E-08	5.5379E-17	1.3954E+08	1.1379E+10
Pu-238	5.0550E-12	2.9527E-16	7.4713E+08	2.6119E+06
Pu-239	5.1238E-13	8.2435E-15	2.0771E+10	2.6354E+05
Pu-240	9.0035E-13	3.9530E-16	9.9190E+08	4.6531E+05
Pu-241	1.9998E-10	2.0222E-15	5.0530E+09	1.0337E+08
Am-241	1.1485E-13	3.3524E-17	8.3771E+07	5.8541E+04
Cm-242	3.0824E-11	9.3117E-18	2.3172E+07	1.6054E+07
Cm-244	2.0551E-12	2.5107E-17	6.1966E+07	1.0623E+06

CR Transport Group Inventory:

Time (h) = 48.0000	Atmosphere	Sump
Noble gases (atoms)	3.6895E+17	0.0000E+00
Elemental I (atoms)	2.1759E+08	0.0000E+00
Organic I (atoms)	1.8052E+10	0.0000E+00
Aerosols (kg)	1.1396E-12	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		9.4881E-17
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.9692E-17
Total I (Ci)		1.5553E-06

Deposition Recirculating

Time (h) = 48.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0745E+13
Organic I (atoms)	0.0000E+00	7.1847E+11
Aerosols (kg)	0.0000E+00	1.0663E-08

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.5562E+18
Elemental I (atoms)	1.9286E+14	1.9657E+12
Organic I (atoms)	1.2922E+13	1.3108E+11
Aerosols (kg)	1.8346E-07	1.8698E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2141E+18
Elemental I (atoms)	0.0000E+00	3.6081E+13
Organic I (atoms)	0.0000E+00	2.4174E+12
Aerosols (kg)	0.0000E+00	3.4322E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	7.3770E+18	0.0000E+00
Elemental I (atoms)	2.5728E+13	0.0000E+00
Organic I (atoms)	1.7202E+12	0.0000E+00
Aerosols (kg)	2.5531E-08	0.0000E+00

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EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4008E-01	1.1081E-01	3.4535E-01
Accumulated dose (rem)	2.2121E+00	6.2153E+00	2.4801E+00

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6540E-03	5.6827E-04	2.6810E-03
Accumulated dose (rem)	3.2379E-01	8.6233E-01	3.6107E-01

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4736E-03	3.1513E-03	5.6240E-03
Accumulated dose (rem)	8.5999E-02	7.8334E+00	4.5932E-01

DW Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-83m	2.8272E-09	1.3928E-19	1.0105E+06	2.7905E+21
Kr-85m	7.7676E+00	9.4387E-10	6.6872E+15	1.7654E+22
Kr-85	1.1077E+06	2.8259E+00	2.0021E+25	1.4324E+22
Kr-88	4.0106E-03	3.1985E-13	2.1888E+12	2.8851E+22
Rb-86	4.8202E+01	5.9240E-07	4.1482E+18	1.2702E+18
Rb-88	1.2153E-02	1.0067E-13	6.8895E+11	2.0844E+22
Sr-89	2.9089E+03	1.0013E-04	6.7751E+20	5.6508E+19
Sr-90	3.2866E+02	2.4094E-03	1.6122E+22	6.1605E+18
Sr-91	3.4387E+00	9.4861E-10	6.2777E+15	2.6878E+19
Sr-92	8.5053E-08	6.7667E-18	4.4293E+07	1.8336E+19
Y-90	2.1238E+02	3.9037E-07	2.6121E+18	1.5902E+18
Y-91	4.5741E+01	1.8652E-06	1.2343E+19	8.0978E+17
Y-92	8.3207E-05	8.6473E-15	5.6603E+10	1.6411E+18
Y-93	5.9141E-02	1.7726E-11	1.1479E+14	3.1120E+17
Zr-95	4.3543E+01	2.0269E-06	1.2848E+19	8.3945E+17
Zr-97	8.5528E-01	4.4740E-10	2.7776E+15	3.8187E+17
Nb-95	4.4786E+01	1.1453E-06	7.2604E+18	8.4000E+17
Mo-99	2.0943E+02	4.3665E-07	2.6561E+18	7.9630E+18
Tc-99m	2.1471E+02	4.0833E-08	2.4839E+17	7.3788E+18
Ru-103	4.6306E+02	1.4348E-05	8.3887E+19	9.0884E+18
Ru-105	1.0971E-04	1.6320E-14	9.3603E+10	1.9725E+18
Ru-106	2.0504E+02	6.1286E-05	3.4818E+20	3.8614E+18
Rh-105	5.7934E+01	6.8638E-08	3.9367E+17	4.0804E+18
Sb-127	2.7825E+02	1.0419E-06	4.9407E+18	8.5582E+18
Sb-129	3.6106E-04	6.4207E-14	2.9974E+11	9.7566E+18
Te-127	3.6118E+02	1.3686E-07	6.4895E+17	9.1874E+18
Te-127m	9.6115E+01	1.0190E-05	4.8318E+19	1.8098E+18
Te-129	2.5418E+02	1.2137E-08	5.6660E+16	1.2704E+19
Te-129m	2.9395E+02	9.7574E-06	4.5551E+19	5.8032E+18
Te-131m	1.3075E+02	1.6397E-07	7.5378E+17	1.3003E+19
Te-132	3.6812E+03	1.2126E-05	5.5320E+19	1.2455E+20
I-131	4.1555E+04	3.3519E-04	1.5409E+21	9.3619E+20
I-132	4.3939E+03	4.2568E-07	1.9421E+18	5.4274E+20
I-133	4.9459E+03	4.3660E-06	1.9769E+19	1.0635E+21
I-135	4.8648E+00	1.3853E-09	6.1794E+15	6.7130E+20
Xe-133	8.1368E+07	4.3470E-01	1.9683E+24	1.3778E+24
Xe-133m	1.2173E+06	2.7650E-03	1.2519E+22	3.1181E+22
Xe-135	4.6004E+04	1.8014E-05	8.0359E+19	1.1845E+23
Xe-135m	2.2567E+00	2.4790E-11	1.1058E+14	1.5889E+21
Cs-134	5.5718E+03	4.3064E-03	1.9354E+22	1.3207E+20
Cs-136	1.3808E+03	1.8840E-05	8.3425E+19	3.8126E+19
Cs-137	4.3405E+03	4.9902E-02	2.1935E+23	1.0263E+20
Ba-140	3.6362E+03	4.9670E-05	2.1365E+20	7.8713E+19
La-140	3.1968E+03	5.7513E-06	2.4740E+19	2.7050E+19
La-141	1.8806E-06	3.3254E-16	1.4203E+09	2.2712E+17
Ce-141	9.8306E+01	3.4501E-06	1.4736E+19	1.9469E+18
Ce-143	1.3855E+01	2.0864E-08	8.7864E+16	1.1659E+18
Ce-144	8.4707E+01	2.6558E-05	1.1107E+20	1.5976E+18
Pr-143	4.1018E+01	6.0913E-07	2.5652E+18	7.8198E+17
Nd-147	1.2908E+01	1.5956E-07	6.5367E+17	2.8609E+17
Np-239	3.7502E+02	1.6165E-06	4.0732E+18	1.6204E+19
Pu-238	2.6589E-01	1.5531E-05	3.9299E+19	4.9815E+15
Pu-239	2.7026E-02	4.3480E-04	1.0956E+21	5.0401E+14
Pu-240	4.7348E-02	2.0788E-05	5.2162E+19	8.8733E+14
Pu-241	1.0514E+01	1.0632E-04	2.6566E+20	1.9710E+17
Am-241	6.1317E-03	1.7899E-06	4.4725E+18	1.1266E+14

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Cm-242	1.6072E+00	4.8554E-07	1.2083E+18	3.0457E+16
Cm-244	1.0805E-01	1.3201E-06	3.2580E+18	2.0255E+15

DW Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump	
Noble gases (atoms)	2.2002E+25	0.0000E+00	
Elemental I (atoms)	7.3260E+18	7.8121E+22	
Organic I (atoms)	7.8406E+20	0.0000E+00	
Aerosols (kg)	5.7689E-02	6.5810E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.8906E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.9634E-06
Total I (Ci)			5.0900E+04

DW to WW Transport Group Inventory:

Time (h) = 96.0000 Leakage Transport

Noble gases (atoms)	8.0914E+28
Elemental I (atoms)	3.9027E+22
Organic I (atoms)	3.5745E+24
Aerosols (kg)	2.1074E+02

WW to DW Transport Group Inventory:

Time (h) = 96.0000 Leakage Transport

Noble gases (atoms)	8.1056E+28
Elemental I (atoms)	4.3150E+22
Organic I (atoms)	3.5829E+24
Aerosols (kg)	2.1410E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.4408E+23
Elemental I (atoms)	0.0000E+00	4.9982E+18
Organic I (atoms)	0.0000E+00	3.4584E+19
Aerosols (kg)	0.0000E+00	6.0608E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7300E+22
Elemental I (atoms)	0.0000E+00	2.9155E+17
Organic I (atoms)	0.0000E+00	3.1248E+18
Aerosols (kg)	0.0000E+00	3.9618E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8245E+23
Elemental I (atoms)	0.0000E+00	7.9056E+17
Organic I (atoms)	0.0000E+00	8.4714E+18
Aerosols (kg)	0.0000E+00	1.0742E-03

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8245E+23
Elemental I (atoms)	0.0000E+00	7.9056E+17
Organic I (atoms)	0.0000E+00	8.4714E+18
Aerosols (kg)	0.0000E+00	1.0742E-03

RB Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	2.3661E-02	2.8751E-12	2.0370E+13	4.6465E+19
Kr-85	3.3741E+03	8.6080E-03	6.0987E+22	5.0439E+19
Kr-88	1.2217E-05	9.7428E-16	6.6673E+09	5.7060E+19
Rb-86	1.4683E-01	1.8046E-09	1.2637E+16	6.4920E+15
Rb-88	3.7019E-05	3.0666E-16	2.0986E+09	6.1476E+19
Sr-89	8.8610E+00	3.0500E-07	2.0638E+18	2.0798E+17
Sr-90	1.0012E+00	7.3395E-06	4.9110E+19	2.2663E+16
Sr-91	1.0475E-02	2.8896E-12	1.9123E+13	7.6680E+16
Sr-92	2.5908E-10	2.0612E-20	1.3492E+05	2.6907E+16
Y-90	6.4695E-01	1.1891E-09	7.9567E+15	5.8739E+15

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Y-91	1.3933E-01	5.6816E-09	3.7599E+16	3.0442E+15
Y-92	2.5346E-07	2.6341E-17	1.7242E+08	1.9633E+16
Y-93	1.8015E-04	5.3997E-14	3.4965E+11	9.0669E+14
Zr-95	1.3264E-01	6.1741E-09	3.9138E+16	3.0894E+15
Zr-97	2.6053E-03	1.3628E-12	8.4610E+12	1.2705E+15
Nb-95	1.3642E-01	3.4888E-09	2.2116E+16	3.0903E+15
Mo-99	6.3794E-01	1.3301E-09	8.0910E+15	2.9250E+16
Tc-99m	6.5403E-01	1.2438E-10	7.5662E+14	2.7425E+16
Ru-103	1.4105E+00	4.3705E-08	2.5553E+17	3.3455E+16
Ru-105	3.3418E-07	4.9714E-17	2.8513E+08	3.9495E+15
Ru-106	6.2457E-01	1.8668E-07	1.0606E+18	1.4206E+16
Rh-105	1.7648E-01	2.0908E-10	1.1992E+15	1.5178E+16
Sb-127	8.4760E-01	3.1739E-09	1.5050E+16	3.1521E+16
Sb-129	1.0998E-06	1.9558E-16	9.1304E+08	1.9230E+16
Te-127	1.1002E+00	4.1688E-10	1.9768E+15	3.4051E+16
Te-127m	2.9278E-01	3.1039E-08	1.4718E+17	6.6594E+15
Te-129	7.7426E-01	3.6971E-11	1.7259E+14	3.3041E+16
Te-129m	8.9540E-01	2.9722E-08	1.3875E+17	2.1384E+16
Te-131m	3.9829E-01	4.9948E-10	2.2961E+15	4.6437E+16
Te-132	1.1214E+01	3.6936E-08	1.6851E+17	4.5828E+17
I-131	1.2658E+02	1.0210E-06	4.6938E+18	4.1817E+18
I-132	1.3385E+01	1.2967E-09	5.9158E+15	1.3592E+18
I-133	1.5066E+01	1.3300E-08	6.0220E+16	4.9409E+18
I-135	1.4819E-02	4.2197E-12	1.8824E+13	2.5011E+18
Xe-133	2.4785E+05	1.3241E-03	5.9956E+21	4.9269E+21
Xe-133m	3.7079E+03	8.4223E-06	3.8135E+19	1.1353E+20
Xe-135	1.4013E+02	5.4873E-08	2.4478E+17	4.0841E+20
Xe-135m	6.8742E-03	7.5514E-14	3.3685E+11	7.0033E+17
Cs-134	1.6973E+01	1.3118E-05	5.8956E+19	6.7048E+17
Cs-136	4.2063E+00	5.7392E-08	2.5413E+17	1.9540E+17
Cs-137	1.3222E+01	1.5201E-04	6.6821E+20	5.2094E+17
Ba-140	1.1077E+01	1.5130E-07	6.5082E+17	2.9002E+17
La-140	9.7378E+00	1.7519E-08	7.5360E+16	1.0291E+17
La-141	5.7287E-09	1.0130E-18	4.3264E+06	4.2335E+14
Ce-141	2.9945E-01	1.0510E-08	4.4886E+16	7.1697E+15
Ce-143	4.2206E-02	6.3555E-11	2.6765E+14	4.1901E+15
Ce-144	2.5803E-01	8.0900E-08	3.3833E+17	5.8778E+15
Pr-143	1.2495E-01	1.8555E-09	7.8141E+15	2.8926E+15
Nd-147	3.9320E-02	4.8604E-10	1.9912E+15	1.0543E+15
Np-239	1.1424E+00	4.9241E-09	1.2407E+16	5.9381E+16
Pu-238	8.0994E-04	4.7310E-08	1.1971E+17	1.8326E+13
Pu-239	8.2325E-05	1.3245E-06	3.3373E+18	1.8542E+12
Pu-240	1.4423E-04	6.3324E-08	1.5889E+17	3.2643E+12
Pu-241	3.2026E-02	3.2385E-07	8.0925E+17	7.2510E+14
Am-241	1.8678E-05	5.4522E-09	1.3624E+16	4.1433E+11
Cm-242	4.8959E-03	1.4790E-09	3.6805E+15	1.1206E+14
Cm-244	3.2913E-04	4.0211E-09	9.9244E+15	7.4514E+12

RB Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	6.7021E+22	0.0000E+00
Elemental I (atoms)	2.2322E+16	0.0000E+00
Organic I (atoms)	2.3883E+18	0.0000E+00
Aerosols (kg)	1.7573E-04	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.3514E-09
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.3864E-09
Total I (Ci)		1.5505E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.4408E+23
Elemental I (atoms)	0.0000E+00	4.9982E+18
Organic I (atoms)	0.0000E+00	3.4584E+19
Aerosols (kg)	0.0000E+00	6.0608E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8595E+23
Elemental I (atoms)	0.0000E+00	2.3972E+17
Organic I (atoms)	0.0000E+00	1.7734E+19
Aerosols (kg)	0.0000E+00	1.0361E-03

Drawdown Release from RB to Environment Transport Group Inventory:

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	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0576E+24
Elemental I (atoms)	4.4561E+18	4.5011E+16
Organic I (atoms)	4.7166E+19	4.7643E+17
Aerosols (kg)	6.5949E-03	6.6615E-05

Environment Integral Nuclide Release:

Time (h) = 96.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8815E+03	1.9122E-07	1.3874E+18	1.4362E+14
Kr-85m	4.5718E+04	5.5553E-06	3.9359E+19	1.6916E+15
Kr-85	5.1637E+04	1.3174E-01	9.3334E+23	1.9106E+15
Kr-87	7.4979E+03	2.6471E-07	1.8323E+18	2.7742E+14
Kr-88	5.5968E+04	4.4634E-06	3.0545E+19	2.0708E+15
Rb-86	2.6485E-01	3.2550E-09	2.2793E+16	9.7995E+09
Rb-88	3.0534E+04	2.5294E-07	1.7309E+18	1.1297E+15
Sr-89	2.5541E+00	8.7915E-08	5.9487E+17	9.4503E+10
Sr-90	2.7755E-01	2.0347E-06	1.3615E+19	1.0269E+10
Sr-91	1.2588E+00	3.4726E-10	2.2981E+15	4.6577E+10
Sr-92	6.9657E-01	5.5418E-11	3.6275E+14	2.5773E+10
Y-90	6.2375E-02	1.1465E-10	7.6714E+14	2.3079E+09
Y-91	3.6589E-02	1.4920E-09	9.8735E+15	1.3538E+09
Y-92	2.2563E-01	2.3448E-11	1.5349E+14	8.3482E+09
Y-93	1.4679E-02	4.3996E-12	2.8490E+13	5.4311E+08
Zr-95	3.7917E-02	1.7650E-09	1.1188E+16	1.4029E+09
Zr-97	1.8669E-02	9.7658E-12	6.0630E+13	6.9075E+08
Nb-95	3.7857E-02	9.6813E-10	6.1370E+15	1.4007E+09
Mo-99	3.7687E-01	7.8578E-10	4.7799E+15	1.3944E+10
Tc-99m	3.5922E-01	6.8315E-11	4.1556E+14	1.3291E+10
Ru-103	4.1117E-01	1.2740E-08	7.4487E+16	1.5213E+10
Ru-105	8.1714E-02	1.2156E-11	6.9720E+13	3.0234E+09
Ru-106	1.7404E-01	5.2022E-08	2.9555E+17	6.4397E+09
Rh-105	1.9999E-01	2.3694E-10	1.3589E+15	7.3997E+09
Sb-127	4.0031E-01	1.4990E-09	7.1081E+15	1.4812E+10
Sb-129	4.0215E-01	7.1513E-11	3.3385E+14	1.4879E+10
Te-127	4.3420E-01	1.6453E-10	7.8015E+14	1.6065E+10
Te-127m	8.1573E-02	8.6480E-09	4.1007E+16	3.0182E+09
Te-129	5.9038E-01	2.8191E-11	1.3160E+14	2.1844E+10
Te-129m	2.6278E-01	8.7227E-09	4.0721E+16	9.7227E+09
Te-131m	6.3404E-01	7.9512E-10	3.6552E+15	2.3459E+10
Te-132	5.8585E+00	1.9297E-08	8.8038E+16	2.1676E+11
I-131	1.2979E+02	1.0469E-06	4.8127E+18	4.8022E+12
I-132	1.2390E+02	1.2003E-08	5.4760E+16	4.5842E+12
I-133	2.2739E+02	2.0073E-07	9.0888E+17	8.4133E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8585E+02	5.2919E-08	2.3606E+17	6.8763E+12
Xe-133	5.0316E+06	2.6881E-02	1.2171E+23	1.8617E+17
Xe-133m	1.1554E+05	2.6244E-04	1.1883E+21	4.2751E+15
Xe-135	4.0641E+05	1.5914E-04	7.0991E+20	1.5037E+16
Xe-135m	5.4830E+02	6.0231E-09	2.6868E+16	2.0287E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.6724E+01	2.0655E-05	9.2828E+19	9.8881E+11
Cs-136	8.0508E+00	1.0985E-07	4.8640E+17	2.9788E+11
Cs-137	2.0752E+01	2.3858E-04	1.0487E+21	7.6784E+11
Ba-139	5.4552E-01	3.3351E-11	1.4449E+14	2.0184E+10
Ba-140	3.5910E+00	4.9051E-08	2.1100E+17	1.3287E+11
La-140	1.0929E+00	1.9663E-09	8.4582E+15	4.0439E+10
La-141	9.2007E-03	1.6269E-12	6.9485E+12	3.4043E+08
La-142	5.2694E-03	3.6811E-13	1.5611E+12	1.9497E+08
Ce-141	8.8156E-02	3.0939E-09	1.3214E+16	3.2618E+09
Ce-143	5.6680E-02	8.5350E-11	3.5943E+14	2.0971E+09
Ce-144	7.2018E-02	2.2580E-08	9.4429E+16	2.6647E+09
Pr-143	3.5293E-02	5.2411E-10	2.2072E+15	1.3058E+09
Nd-147	1.3077E-02	1.6164E-10	6.6220E+14	4.8383E+08
Np-239	7.7153E-01	3.3257E-09	8.3797E+15	2.8546E+10
Pu-238	2.2443E-04	1.3109E-08	3.3170E+16	8.3038E+06
Pu-239	2.2697E-05	3.6515E-07	9.2008E+17	8.3977E+05
Pu-240	3.9976E-05	1.7552E-08	4.4041E+16	1.4791E+06

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Pu-241	8.8802E-03	8.9797E-08	2.2438E+17	3.2857E+08
Am-241	5.0670E-06	1.4791E-09	3.6959E+15	1.8748E+05
Cm-242	1.3735E-03	4.1494E-10	1.0326E+15	5.0821E+07
Cm-244	9.1255E-05	1.1149E-09	2.7516E+15	3.3764E+06

Environment Transport Group Inventory:

	Total Release	Release Rate/s	
Time (h) = 96.0000			
Noble gases (atoms)	1.0570E+24	3.0585E+18	
Elemental I (atoms)	2.5178E+17	7.2853E+11	
Organic I (atoms)	4.8436E+17	1.4015E+12	
Aerosols (kg)	2.6356E-04	7.6262E-10	
Dose Effective (Ci) I-131 (Thyroid)			1.7390E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			2.1287E+02
Total I (Ci)			8.0602E+02

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	9.9955E+18
Elemental I (atoms)	1.9287E+14	1.9658E+12
Organic I (atoms)	1.4254E+13	1.4452E+11
Aerosols (kg)	1.8355E-07	1.8707E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	1.8510E+18
Elemental I (atoms)	0.0000E+00	3.6084E+13
Organic I (atoms)	0.0000E+00	2.6665E+12
Aerosols (kg)	0.0000E+00	3.4339E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	1.1484E+19	0.0000E+00
Elemental I (atoms)	2.5730E+13	0.0000E+00
Organic I (atoms)	1.9062E+12	0.0000E+00
Aerosols (kg)	2.5544E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	1.0576E+24
Elemental I (atoms)	4.4561E+18	4.5011E+16
Organic I (atoms)	4.7166E+19	4.7643E+17
Aerosols (kg)	6.5949E-03	6.6615E-05

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	1.1596E-07	1.4091E-17	9.9832E+07	3.6105E+14
Kr-85	1.6536E-02	4.2188E-08	2.9890E+17	2.9438E+14
Kr-88	5.9874E-11	4.7749E-21	3.2676E+04	4.5715E+14
Rb-86	8.3566E-10	1.0270E-17	7.1917E+07	1.3534E+10
Sr-89	5.0428E-08	1.7358E-15	1.1745E+10	3.0462E+10
Sr-90	5.6976E-09	4.1769E-14	2.7949E+11	3.2679E+09
Sr-91	5.9612E-11	1.6445E-20	1.0883E+05	2.8426E+10
Y-90	3.6818E-09	6.7672E-18	4.5281E+07	1.6655E+08
Y-91	7.9295E-10	3.2334E-17	2.1398E+08	4.0234E+08
Zr-95	7.5484E-10	3.5137E-17	2.2273E+08	4.5100E+08
Zr-97	1.4827E-11	7.7559E-21	4.8152E+04	3.6807E+08
Nb-95	7.7639E-10	1.9855E-17	1.2586E+08	4.4577E+08
Mo-99	3.6305E-09	7.5696E-18	4.6046E+07	5.4344E+09

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Tc-99m	3.7221E-09	7.0786E-19	4.3059E+06	4.9126E+09
Ru-103	8.0273E-09	2.4872E-16	1.4542E+09	4.9218E+09
Ru-106	3.5544E-09	1.0624E-15	6.0359E+09	2.0528E+09
Rh-105	1.0043E-09	1.1899E-18	6.8244E+06	3.1679E+09
Sb-127	4.8237E-09	1.8063E-17	8.5650E+07	5.4858E+09
Te-127	6.2612E-09	2.3725E-18	1.1250E+07	5.5447E+09
Te-127m	1.6662E-09	1.7664E-16	8.3762E+08	9.6128E+08
Te-129	4.4063E-09	2.1040E-19	9.8223E+05	1.1737E+10
Te-129m	5.0957E-09	1.6915E-16	7.8965E+08	3.1478E+09
Te-131m	2.2666E-09	2.8425E-18	1.3067E+07	1.0795E+10
Te-132	6.3816E-08	2.1020E-16	9.5900E+08	8.2213E+10
I-131	7.2039E-07	5.8108E-15	2.6712E+10	5.9129E+12
I-132	7.6172E-08	7.3794E-18	3.3667E+07	4.1369E+12
I-133	8.5741E-08	7.5689E-17	3.4271E+08	1.1123E+13
I-135	8.4336E-11	2.4015E-20	1.0713E+05	8.5291E+12
Xe-133	1.2147E+00	6.4896E-09	2.9384E+16	2.9419E+16
Xe-133m	1.8172E-02	4.1277E-11	1.8690E+14	6.9933E+14
Xe-135	6.8675E-04	2.6892E-13	1.1996E+12	2.9424E+15
Xe-135m	6.2087E-10	6.8203E-21	3.0424E+04	4.5929E+12
Cs-134	9.6596E-08	7.4659E-14	3.3553E+11	1.3604E+12
Cs-136	2.3939E-08	3.2662E-16	1.4463E+09	4.1202E+11
Cs-137	7.5250E-08	8.6513E-13	3.8029E+12	1.0562E+12
Ba-140	6.3036E-08	8.6105E-16	3.7038E+09	4.4441E+10
La-140	5.5418E-08	9.9703E-17	4.2887E+08	3.1614E+09
Ce-141	1.7042E-09	5.9810E-17	2.5545E+08	1.0579E+09
Ce-143	2.4019E-10	3.6169E-19	1.5232E+06	9.4292E+08
Ce-144	1.4685E-09	4.6040E-16	1.9254E+09	8.4987E+08
Pr-143	7.1108E-10	1.0560E-17	4.4470E+07	4.0886E+08
Nd-147	2.2377E-10	2.7661E-18	1.1332E+07	1.6308E+08
Np-239	6.5011E-09	2.8023E-17	7.0611E+07	1.1436E+10
Pu-238	4.6094E-12	2.6924E-16	6.8127E+08	2.6420E+06
Pu-239	4.6851E-13	7.5376E-15	1.8993E+10	2.6659E+05
Pu-240	8.2080E-13	3.6038E-16	9.0427E+08	4.7066E+05
Pu-241	1.8226E-10	1.8430E-15	4.6054E+09	1.0456E+08
Am-241	1.0630E-13	3.1028E-17	7.7534E+07	5.9228E+04
Cm-242	2.7862E-11	8.4171E-18	2.0946E+07	1.6237E+07
Cm-244	1.8731E-12	2.2884E-17	5.6479E+07	1.0745E+06

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	3.2847E+17	0.0000E+00
Elemental I (atoms)	1.2705E+08	0.0000E+00
Organic I (atoms)	1.3592E+10	0.0000E+00
Aerosols (kg)	1.0001E-12	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.8137E-17
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.9152E-17
Total I (Ci)		8.8238E-07

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0746E+13
Organic I (atoms)	0.0000E+00	7.9615E+11
Aerosols (kg)	0.0000E+00	1.0668E-08

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.9955E+18
Elemental I (atoms)	1.9287E+14	1.9658E+12
Organic I (atoms)	1.4254E+13	1.4452E+11
Aerosols (kg)	1.8355E-07	1.8707E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8510E+18
Elemental I (atoms)	0.0000E+00	3.6084E+13
Organic I (atoms)	0.0000E+00	2.6665E+12
Aerosols (kg)	0.0000E+00	3.4339E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	1.1484E+19	0.0000E+00

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Elemental I (atoms)	2.5730E+13	0.0000E+00
Organic I (atoms)	1.9062E+12	0.0000E+00
Aerosols (kg)	2.5544E-08	0.0000E+00

EAB Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7034E-01	2.1869E-01	5.8232E-01
Accumulated dose (rem)	2.7824E+00	6.4340E+00	3.0624E+00

LPZ Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4740E-03	3.7142E-04	1.4944E-03
Accumulated dose (rem)	3.2527E-01	8.6270E-01	3.6257E-01

CR Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5358E-03	3.0627E-03	4.7034E-03
Accumulated dose (rem)	9.0535E-02	7.8365E+00	4.6402E-01

DW Compartment Nuclide Inventory:

Time (h) = 240.0000	Ci	kg	Atoms	Decay
Kr-85m	1.5571E-09	1.8920E-19	1.3405E+06	1.7654E+22
Kr-85	1.0518E+06	2.6834E+00	1.9011E+25	3.5026E+22
Rb-86	3.6665E+01	4.5061E-07	3.1554E+18	2.0789E+18
Sr-89	2.5465E+03	8.7653E-05	5.9310E+20	1.0874E+20
Sr-90	3.1229E+02	2.2894E-03	1.5319E+22	1.2305E+19
Sr-91	8.9412E-05	2.4666E-14	1.6323E+11	2.6884E+19
Y-90	2.9046E+02	5.3387E-07	3.5723E+18	6.6105E+18
Y-91	4.0505E+01	1.6517E-06	1.0930E+19	1.6358E+18
Y-93	2.8705E-06	8.6038E-16	5.5713E+09	3.1131E+17
Zr-95	3.8785E+01	1.8054E-06	1.1445E+19	1.6280E+18
Zr-97	2.2136E-03	1.1579E-12	7.1889E+12	3.8462E+17
Nb-95	4.2247E+01	1.0804E-06	6.8488E+18	1.6744E+18
Mo-99	4.3875E+01	9.1480E-08	5.5647E+17	9.9942E+18
Tc-99m	4.4983E+01	8.5547E-09	5.2038E+16	9.3562E+18
Ru-103	3.9594E+02	1.2268E-05	7.1729E+19	1.7308E+19
Ru-106	1.9271E+02	5.7602E-05	3.2725E+20	7.6741E+18
Rh-105	3.2734E+00	3.8782E-09	2.2243E+16	4.4452E+18
Sb-127	8.9801E+01	3.3627E-07	1.5945E+18	1.1754E+19
Te-127	1.7579E+02	6.6608E-08	3.1584E+17	1.3859E+19
Te-127m	8.9030E+01	9.4385E-06	4.4756E+19	3.5861E+18
Te-129	2.1348E+02	1.0194E-08	4.7588E+16	1.6072E+19
Te-129m	2.4688E+02	8.1952E-06	3.8258E+19	1.0976E+19
Te-131m	4.4615E+00	5.5950E-09	2.5721E+16	1.3720E+19
Te-132	9.7645E+02	3.2163E-06	1.4674E+19	1.6364E+20
I-131	2.3558E+04	1.9002E-04	8.7355E+20	1.5444E+21
I-132	1.1655E+03	1.1291E-07	5.1513E+17	5.8320E+20
I-133	3.8741E+01	3.4199E-08	1.5485E+17	1.0829E+21
I-135	1.2796E-06	3.6435E-16	1.6253E+09	6.7130E+20
Xe-133	3.5256E+07	1.8835E-01	8.5285E+23	2.4358E+24
Xe-133m	1.7925E+05	4.0715E-04	1.8435E+21	4.1574E+22
Xe-135	7.4492E-01	2.9170E-10	1.3012E+15	1.1853E+23
Xe-135m	5.9355E-07	6.5202E-18	2.9086E+07	1.5889E+21
Cs-134	5.2672E+03	4.0710E-03	1.8296E+22	2.3598E+20
Cs-136	9.5552E+02	1.3037E-05	5.7730E+19	6.0279E+19
Cs-137	4.1244E+03	4.7417E-02	2.0843E+23	1.8378E+20
Ba-140	2.4938E+03	3.4064E-05	1.4653E+20	1.3681E+20
La-140	2.8150E+03	5.0645E-06	2.1785E+19	8.6863E+19
Ce-141	8.2222E+01	2.8856E-06	1.2325E+19	3.6734E+18
Ce-143	6.3976E-01	9.6337E-10	4.0570E+15	1.2483E+18
Ce-144	7.9350E+01	2.4879E-05	1.0404E+20	3.1701E+18
Pr-143	2.9714E+01	4.4127E-07	1.8583E+18	1.4592E+18
Nd-147	8.4014E+00	1.0385E-07	4.2544E+17	4.8733E+17
Np-239	6.0964E+01	2.6279E-07	6.6215E+17	1.9519E+19
Pu-238	2.5291E-01	1.4773E-05	3.7380E+19	9.9551E+15
Pu-239	2.5769E-02	4.1458E-04	1.0446E+21	1.0104E+15
Pu-240	4.5008E-02	1.9761E-05	4.9585E+19	1.7727E+15
Pu-241	9.9864E+00	1.0098E-04	2.5234E+20	3.9363E+17
Am-241	6.0912E-03	1.7780E-06	4.4429E+18	2.2986E+14
Cm-242	1.4893E+00	4.4991E-07	1.1196E+18	6.0134E+16
Cm-244	1.0264E-01	1.2540E-06	3.0950E+18	4.0453E+15

DW Transport Group Inventory:

Time (h) = 240.0000	Atmosphere	Sump
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Noble gases (atoms)	1.9866E+25	0.0000E+00	
Elemental I (atoms)	4.0986E+18	7.8121E+22	
Organic I (atoms)	4.3866E+20	0.0000E+00	
Aerosols (kg)	5.4690E-02	6.5810E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.7186E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.7230E-06
Total I (Ci)			2.4762E+04

DW to WW Transport Group Inventory:
Time (h) = 240.0000 Leakage Transport

Noble gases (atoms)	1.9317E+29
Elemental I (atoms)	6.8886E+22
Organic I (atoms)	6.7702E+24
Aerosols (kg)	5.1309E+02

WW to DW Transport Group Inventory:
Time (h) = 240.0000 Leakage Transport

Noble gases (atoms)	1.9332E+29
Elemental I (atoms)	7.3010E+22
Organic I (atoms)	6.7786E+24
Aerosols (kg)	5.1645E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5562E+24
Elemental I (atoms)	0.0000E+00	5.2142E+18
Organic I (atoms)	0.0000E+00	5.7702E+19
Aerosols (kg)	0.0000E+00	8.2480E-03

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4068E+23
Elemental I (atoms)	0.0000E+00	3.1107E+17
Organic I (atoms)	0.0000E+00	5.2139E+18
Aerosols (kg)	0.0000E+00	5.9383E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8136E+23
Elemental I (atoms)	0.0000E+00	8.4347E+17
Organic I (atoms)	0.0000E+00	1.4134E+19
Aerosols (kg)	0.0000E+00	1.6099E-03

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8136E+23
Elemental I (atoms)	0.0000E+00	8.4347E+17
Organic I (atoms)	0.0000E+00	1.4134E+19
Aerosols (kg)	0.0000E+00	1.6099E-03

RB Compartment Nuclide Inventory:

Time (h) = 240.0000	Ci	kg	Atoms	Decay
Kr-85	3.2037E+03	8.1734E-03	5.7907E+22	1.1350E+20
Rb-86	1.1168E-01	1.3725E-09	9.6110E+15	8.9553E+15
Sr-89	7.7565E+00	2.6699E-07	1.8065E+18	3.6708E+17
Sr-90	9.5122E-01	6.9734E-06	4.6661E+19	4.1379E+16
Sr-91	2.7234E-07	7.5129E-17	4.9719E+08	7.6699E+16
Y-90	8.8471E-01	1.6261E-09	1.0881E+16	2.1165E+16
Y-91	1.2338E-01	5.0309E-09	3.3293E+16	5.5603E+15
Y-93	8.7433E-09	2.6206E-18	1.6970E+07	9.0704E+14
Zr-95	1.1814E-01	5.4991E-09	3.4859E+16	5.4912E+15
Zr-97	6.7424E-06	3.5270E-15	2.1897E+10	1.2788E+15
Nb-95	1.2868E-01	3.2909E-09	2.0861E+16	5.6319E+15
Mo-99	1.3364E-01	2.7864E-10	1.6950E+15	3.5437E+16
Tc-99m	1.3701E-01	2.6057E-11	1.5850E+14	3.3448E+16
Ru-103	1.2060E+00	3.7368E-08	2.1848E+17	5.8493E+16
Ru-106	5.8698E-01	1.7545E-07	9.9678E+17	2.5820E+16

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Rh-105	9.9706E-03	1.1813E-11	6.7751E+13	1.6289E+16
Sb-127	2.7353E-01	1.0242E-09	4.8568E+15	4.1254E+16
Te-127	5.3543E-01	2.0288E-10	9.6204E+14	4.8280E+16
Te-127m	2.7118E-01	2.8749E-08	1.3632E+17	1.2070E+16
Te-129	6.5025E-01	3.1050E-11	1.4495E+14	4.3302E+16
Te-129m	7.5199E-01	2.4962E-08	1.1653E+17	3.7140E+16
Te-131m	1.3589E-02	1.7042E-11	7.8343E+13	4.8621E+16
Te-132	2.9742E+00	9.7966E-09	4.4694E+16	5.7733E+17
I-131	7.1756E+01	5.7880E-07	2.6608E+18	6.0341E+18
I-132	3.5500E+00	3.4392E-10	1.5690E+15	1.4824E+18
I-133	1.1800E-01	1.0417E-10	4.7167E+14	5.0000E+18
I-135	3.8974E-09	1.1098E-18	4.9506E+06	2.5011E+18
Xe-133	1.0739E+05	5.7371E-04	2.5977E+21	8.1495E+21
Xe-133m	5.4598E+02	1.2401E-06	5.6153E+18	1.4519E+20
Xe-135	2.2690E-03	8.8849E-13	3.9634E+12	4.0865E+20
Xe-135m	1.8079E-09	1.9860E-20	8.8593E+04	7.0033E+17
Cs-134	1.6043E+01	1.2400E-05	5.5727E+19	9.8697E+17
Cs-136	2.9104E+00	3.9711E-08	1.7584E+17	2.6288E+17
Cs-137	1.2563E+01	1.4443E-04	6.3486E+20	7.6812E+17
Ba-140	7.5959E+00	1.0376E-07	4.4631E+17	4.6697E+17
La-140	8.5743E+00	1.5426E-08	6.6356E+16	2.8510E+17
Ce-141	2.5044E-01	8.7894E-09	3.7540E+16	1.2428E+16
Ce-143	1.9487E-03	2.9344E-12	1.2357E+13	4.4411E+15
Ce-144	2.4170E-01	7.5779E-08	3.1691E+17	1.0668E+16
Pr-143	9.0508E-02	1.3441E-09	5.6603E+15	4.9555E+15
Nd-147	2.5590E-02	3.1632E-10	1.2959E+15	1.6672E+15
Np-239	1.8569E-01	8.0043E-10	2.0169E+15	6.9479E+16
Pu-238	7.7034E-04	4.4997E-08	1.1386E+17	3.3475E+13
Pu-239	7.8490E-05	1.2628E-06	3.1819E+18	3.3966E+12
Pu-240	1.3709E-04	6.0191E-08	1.5103E+17	5.9611E+12
Pu-241	3.0418E-02	3.0759E-07	7.6860E+17	1.3237E+15
Am-241	1.8553E-05	5.4157E-09	1.3533E+16	7.7132E+11
Cm-242	4.5363E-03	1.3704E-09	3.4102E+15	2.0246E+14
Cm-244	3.1264E-04	3.8196E-09	9.4271E+15	1.3604E+13

RB Transport Group Inventory:

Time (h) = 240.0000	Atmosphere	Sump
Noble gases (atoms)	6.0511E+22	0.0000E+00
Elemental I (atoms)	1.2484E+16	0.0000E+00
Organic I (atoms)	1.3361E+18	0.0000E+00
Aerosols (kg)	1.6658E-04	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3070E-09
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.3091E-09
Total I (Ci)		7.5424E+01

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5562E+24
Elemental I (atoms)	0.0000E+00	5.2142E+18
Organic I (atoms)	0.0000E+00	5.7702E+19
Aerosols (kg)	0.0000E+00	8.2480E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.1546E+23
Elemental I (atoms)	0.0000E+00	3.5396E+17
Organic I (atoms)	0.0000E+00	2.9961E+19
Aerosols (kg)	0.0000E+00	2.1929E-03

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3024E+24
Elemental I (atoms)	4.7839E+18	4.8322E+16

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Organic I (atoms)	8.2249E+19	8.3080E+17
Aerosols (kg)	9.9141E-03	1.0014E-04

Environment Integral Nuclide Release:

Time (h) = 240.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8815E+03	1.9122E-07	1.3874E+18	1.4362E+14
Kr-85m	4.5718E+04	5.5553E-06	3.9359E+19	1.6916E+15
Kr-85	1.1607E+05	2.9612E-01	2.0980E+24	4.2946E+15
Kr-87	7.4979E+03	2.6471E-07	1.8323E+18	2.7742E+14
Kr-88	5.5968E+04	4.4634E-06	3.0545E+19	2.0708E+15
Rb-86	2.9000E-01	3.5641E-09	2.4958E+16	1.0730E+10
Rb-88	3.0534E+04	2.5294E-07	1.7309E+18	1.1297E+15
Sr-89	4.1794E+00	1.4386E-07	9.7340E+17	1.5464E+11
Sr-90	4.6879E-01	3.4367E-06	2.2996E+19	1.7345E+10
Sr-91	1.2590E+00	3.4731E-10	2.2984E+15	4.6583E+10
Sr-92	6.9657E-01	5.5418E-11	3.6275E+14	2.5773E+10
Y-90	2.1985E-01	4.0410E-10	2.7039E+15	8.1346E+09
Y-91	6.2293E-02	2.5401E-09	1.6810E+16	2.3048E+09
Y-92	2.2563E-01	2.3448E-11	1.5349E+14	8.3482E+09
Y-93	1.4682E-02	4.4007E-12	2.8496E+13	5.4324E+08
Zr-95	6.2454E-02	2.9071E-09	1.8429E+16	2.3108E+09
Zr-97	1.8753E-02	9.8096E-12	6.0902E+13	6.9385E+08
Nb-95	6.3837E-02	1.6325E-09	1.0349E+16	2.3620E+09
Mo-99	4.3976E-01	9.1690E-10	5.5775E+15	1.6271E+10
Tc-99m	4.2369E-01	8.0577E-11	4.9015E+14	1.5677E+10
Ru-103	6.6691E-01	2.0664E-08	1.2082E+17	2.4676E+10
Ru-105	8.1714E-02	1.2156E-11	6.9720E+13	3.0234E+09
Ru-106	2.9271E-01	8.7490E-08	4.9705E+17	1.0830E+10
Rh-105	2.1123E-01	2.5026E-10	1.4353E+15	7.8157E+09
Sb-127	4.9940E-01	1.8701E-09	8.8675E+15	1.8478E+10
Sb-129	4.0215E-01	7.1513E-11	3.3385E+14	1.4879E+10
Te-127	5.8433E-01	2.2141E-10	1.0499E+15	2.1620E+10
Te-127m	1.3685E-01	1.4509E-08	6.8798E+16	5.0636E+09
Te-129	7.2953E-01	3.4835E-11	1.6262E+14	2.6993E+10
Te-129m	4.2370E-01	1.4065E-08	6.5658E+16	1.5677E+10
Te-131m	6.5610E-01	8.2279E-10	3.7824E+15	2.4276E+10
Te-132	7.0696E+00	2.3287E-08	1.0624E+17	2.6158E+11
I-131	1.4868E+02	1.1993E-06	5.5133E+18	5.5013E+12
I-132	1.2534E+02	1.2143E-08	5.5399E+16	4.6377E+12
I-133	2.2798E+02	2.0125E-07	9.1125E+17	8.4353E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8585E+02	5.2919E-08	2.3606E+17	6.8763E+12
Xe-133	8.3156E+06	4.4425E-02	2.0115E+23	3.0768E+17
Xe-133m	1.4768E+05	3.3544E-04	1.5188E+21	5.4641E+15
Xe-135	4.0665E+05	1.5924E-04	7.1033E+20	1.5046E+16
Xe-135m	5.4830E+02	6.0231E-09	2.6868E+16	2.0287E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	2.9958E+01	2.3155E-05	1.0406E+20	1.1085E+12
Cs-136	8.7395E+00	1.1924E-07	5.2802E+17	3.2336E+11
Cs-137	2.3278E+01	2.6762E-04	1.1764E+21	8.6129E+11
Ba-139	5.4552E-01	3.3351E-11	1.4449E+14	2.0184E+10
Ba-140	5.3970E+00	7.3721E-08	3.1711E+17	1.9969E+11
La-140	2.9697E+00	5.3428E-09	2.2982E+16	1.0988E+11
La-141	9.2007E-03	1.6269E-12	6.9485E+12	3.4043E+08
La-142	5.2694E-03	3.6811E-13	1.5611E+12	1.9497E+08
Ce-141	1.4187E-01	4.9789E-09	2.1265E+16	5.2490E+09
Ce-143	5.9218E-02	8.9172E-11	3.7553E+14	2.1911E+09
Ce-144	1.2096E-01	3.7924E-08	1.5860E+17	4.4755E+09
Pr-143	5.6354E-02	8.3688E-10	3.5243E+15	2.0851E+09
Nd-147	1.9332E-02	2.3897E-10	9.7897E+14	7.1528E+08
Np-239	8.7408E-01	3.7677E-09	9.4936E+15	3.2341E+10
Pu-238	3.7922E-04	2.2151E-08	5.6050E+16	1.4031E+07
Pu-239	3.8457E-05	6.1871E-07	1.5590E+18	1.4229E+06
Pu-240	6.7533E-05	2.9651E-08	7.4400E+16	2.4987E+06
Pu-241	1.4997E-02	1.5165E-07	3.7894E+17	5.5488E+08
Am-241	8.7159E-06	2.5442E-09	6.3574E+15	3.2249E+05
Cm-242	2.2971E-03	6.9396E-10	1.7269E+15	8.4995E+07
Cm-244	1.5412E-04	1.8829E-09	4.6472E+15	5.7024E+06

Environment Transport Group Inventory:

	Total Release	Release Rate/s
Time (h) = 240.0000		
Noble gases (atoms)	2.3014E+24	2.6637E+18
Elemental I (atoms)	2.5508E+17	2.9523E+11
Organic I (atoms)	8.3742E+17	9.6924E+11
Aerosols (kg)	2.9709E-04	3.4385E-10

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Dose Effective (Ci) I-131 (Thyroid)	1.9290E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)	2.3198E+02
Total I (Ci)	8.2696E+02

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6999E+19
Elemental I (atoms)	1.9289E+14	1.9660E+12
Organic I (atoms)	1.6228E+13	1.6446E+11
Aerosols (kg)	1.8373E-07	1.8726E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1479E+18
Elemental I (atoms)	0.0000E+00	3.6087E+13
Organic I (atoms)	0.0000E+00	3.0356E+12
Aerosols (kg)	0.0000E+00	3.4374E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	1.9883E+19	0.0000E+00
Elemental I (atoms)	2.5732E+13	0.0000E+00
Organic I (atoms)	2.1835E+12	0.0000E+00
Aerosols (kg)	2.5570E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3024E+24
Elemental I (atoms)	4.7839E+18	4.8322E+16
Organic I (atoms)	8.2249E+19	8.3080E+17
Aerosols (kg)	9.9141E-03	1.0014E-04

CR Compartment Nuclide Inventory:

Time (h) = 240.0000	Ci	kg	Atoms	Decay
Kr-85	1.1553E-02	2.9474E-08	2.0882E+17	5.2380E+14
Rb-86	4.6765E-10	5.7473E-18	4.0246E+07	1.3544E+10
Sr-89	3.2480E-08	1.1180E-15	7.5648E+09	3.1133E+10
Sr-90	3.9832E-09	2.9201E-14	1.9539E+11	3.3468E+09
Y-90	3.7047E-09	6.8093E-18	4.5563E+07	2.3089E+08
Y-91	5.1663E-10	2.1066E-17	1.3941E+08	4.1294E+08
Zr-95	4.9469E-10	2.3027E-17	1.4597E+08	4.6112E+08
Nb-95	5.3885E-10	1.3780E-17	8.7354E+07	4.5647E+08
Mo-99	5.5961E-10	1.1668E-18	7.0975E+06	5.4606E+09
Tc-99m	5.7374E-10	1.0911E-19	6.6372E+05	4.9381E+09
Ru-103	5.0501E-09	1.5648E-16	9.1487E+08	5.0273E+09
Ru-106	2.4579E-09	7.3469E-16	4.1739E+09	2.1017E+09
Rh-105	4.1751E-11	4.9465E-20	2.8370E+05	3.1726E+09
Sb-127	1.1454E-09	4.2890E-18	2.0338E+07	5.5270E+09
Te-127	2.2421E-09	8.4956E-19	4.0285E+06	5.6048E+09
Te-127m	1.1355E-09	1.2038E-16	5.7085E+08	9.8407E+08
Te-129	2.7229E-09	1.3002E-19	6.0697E+05	1.1781E+10
Te-129m	3.1489E-09	1.0453E-16	4.8797E+08	3.2142E+09
Te-131m	5.6905E-11	7.1362E-20	3.2806E+05	1.0804E+10
Te-132	1.2454E-08	4.1023E-17	1.8716E+08	8.2717E+10
I-131	3.0047E-07	2.4237E-15	1.1142E+10	5.9207E+12
I-132	1.4865E-08	1.4401E-18	6.5703E+06	4.1375E+12
I-133	4.9413E-10	4.3620E-19	1.9751E+06	1.1123E+13
Xe-133	3.8725E-01	2.0688E-09	9.3676E+15	4.1186E+16
Xe-133m	1.9689E-03	4.4721E-12	2.0249E+13	8.1560E+14
Xe-135	8.1821E-09	3.2040E-18	1.4292E+07	2.9434E+15

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Cs-134	6.7181E-08	5.1924E-14	2.3335E+11	1.3617E+12
Cs-136	1.2187E-08	1.6629E-16	7.3632E+08	4.1230E+11
Cs-137	5.2605E-08	6.0478E-13	2.6585E+12	1.0573E+12
Ba-140	3.1808E-08	4.3448E-16	1.8689E+09	4.5187E+10
La-140	3.5904E-08	6.4596E-17	2.7786E+08	3.9288E+09
Ce-141	1.0487E-09	3.6805E-17	1.5720E+08	1.0800E+09
Ce-143	8.1599E-12	1.2287E-20	5.1746E+04	9.4399E+08
Ce-144	1.0121E-09	3.1732E-16	1.3270E+09	8.7004E+08
Pr-143	3.7900E-10	5.6282E-18	2.3702E+07	4.1756E+08
Nd-147	1.0716E-10	1.3246E-18	5.4264E+06	1.6566E+08
Np-239	7.7758E-10	3.3518E-18	8.4455E+06	1.1479E+10
Pu-238	3.2258E-12	1.8842E-16	4.7677E+08	2.7058E+06
Pu-239	3.2867E-13	5.2878E-15	1.3324E+10	2.7308E+05
Pu-240	5.7406E-13	2.5204E-16	6.3244E+08	4.8202E+05
Pu-241	1.2737E-10	1.2880E-15	3.2185E+09	1.0708E+08
Am-241	7.7690E-14	2.2678E-17	5.6668E+07	6.0732E+04
Cm-242	1.8995E-11	5.7384E-18	1.4280E+07	1.6618E+07
Cm-244	1.3092E-12	1.5994E-17	3.9475E+07	1.1004E+06

CR Transport Group Inventory:

Time (h) = 240.0000	Atmosphere	Sump
Noble gases (atoms)	2.1821E+17	0.0000E+00
Elemental I (atoms)	5.2277E+07	0.0000E+00
Organic I (atoms)	5.5949E+09	0.0000E+00
Aerosols (kg)	6.9755E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.7867E-17
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7913E-17
Total I (Ci)		3.1583E-07

Time (h) = 240.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0747E+13
Organic I (atoms)	0.0000E+00	9.1195E+11
Aerosols (kg)	0.0000E+00	1.0679E-08

CR Filtered Intake Transport Group Inventory:

Time (h) = 240.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6999E+19
Elemental I (atoms)	1.9289E+14	1.9660E+12
Organic I (atoms)	1.6228E+13	1.6446E+11
Aerosols (kg)	1.8373E-07	1.8726E-09

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) = 240.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1479E+18
Elemental I (atoms)	0.0000E+00	3.6087E+13
Organic I (atoms)	0.0000E+00	3.0356E+12
Aerosols (kg)	0.0000E+00	3.4374E-08

CR Exhaust to Environment Transport Group Inventory:

Time (h) = 240.0000	Pathway Filtered	Transported
Noble gases (atoms)	1.9883E+19	0.0000E+00
Elemental I (atoms)	2.5732E+13	0.0000E+00
Organic I (atoms)	2.1835E+12	0.0000E+00
Aerosols (kg)	2.5570E-08	0.0000E+00

EAB Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2538E-01	1.7429E-01	3.3873E-01
Accumulated dose (rem)	3.1078E+00	6.6083E+00	3.4011E+00

LPZ Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.4093E-04	2.9600E-04	8.6360E-04
Accumulated dose (rem)	3.2611E-01	8.6300E-01	3.6343E-01

CR Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem) 2.5504E-03 2.4183E-03 2.7357E-03
 Accumulated dose (rem) 9.3086E-02 7.8389E+00 4.6676E-01

DW Compartment Nuclide Inventory:

Time (h) = 480.0000	Ci	kg	Atoms	Decay
Kr-85	9.6487E+05	2.4616E+00	1.7440E+25	6.7235E+22
Rb-86	2.3240E+01	2.8561E-07	2.0000E+18	3.0200E+18
Sr-89	2.0400E+03	7.0220E-05	4.7514E+20	1.8174E+20
Sr-90	2.8680E+02	2.1026E-03	1.4069E+22	2.1874E+19
Y-90	2.8682E+02	5.2718E-07	3.5275E+18	1.5919E+19
Y-91	3.3065E+01	1.3483E-06	8.9225E+18	2.8075E+18
Zr-95	3.1983E+01	1.4888E-06	9.4374E+18	2.7555E+18
Zr-97	1.0800E-07	5.6494E-17	3.5074E+08	3.8463E+17
Nb-95	3.7196E+01	9.6802E-07	6.1364E+18	2.9543E+18
Mo-99	3.2424E+00	6.7604E-09	4.1123E+16	1.0493E+19
Tc-99m	3.3242E+00	6.3220E-10	3.8456E+15	9.8415E+18
Ru-103	3.0500E+02	9.4503E-06	5.5253E+19	2.8447E+19
Ru-106	1.7379E+02	5.1947E-05	2.9513E+20	1.3526E+19
Rh-105	2.7234E-02	3.2266E-11	1.8506E+14	4.4669E+18
Sb-127	1.3636E+01	5.1062E-08	2.4213E+17	1.3045E+19
Te-127	9.1670E+01	3.4735E-08	1.6471E+17	1.7651E+19
Te-127m	7.7196E+01	8.1839E-06	3.8807E+19	6.2400E+18
Te-129	1.5961E+02	7.6216E-09	3.5580E+16	2.0532E+19
Te-129m	1.8459E+02	6.1273E-06	2.8604E+19	1.7823E+19
Te-131m	1.6016E-02	2.0085E-11	9.2330E+13	1.3745E+19
Te-132	1.0692E+02	3.5220E-07	1.6068E+18	1.7620E+20
I-131	9.1420E+03	7.3741E-05	3.3899E+20	2.0311E+21
I-132	1.2762E+02	1.2364E-08	5.6408E+16	5.9621E+20
I-133	1.1969E-02	1.0566E-11	4.7840E+13	1.0831E+21
Xe-133	8.6689E+06	4.6313E-02	2.0970E+23	3.0418E+24
Xe-133m	7.3596E+03	1.6717E-05	7.5691E+19	4.3294E+22
Xe-135	7.7166E-09	3.0217E-18	1.3479E+07	1.1853E+23
Cs-134	4.7960E+03	3.7069E-03	1.6659E+22	3.9668E+20
Cs-136	5.1731E+02	7.0583E-06	3.1254E+19	8.3105E+19
Cs-137	3.7878E+03	4.3547E-02	1.9142E+23	3.1015E+20
Ba-140	1.3301E+03	1.8168E-05	7.8152E+19	1.9598E+20
La-140	1.5439E+03	2.7776E-06	1.1948E+19	1.5448E+20
Ce-141	6.1047E+01	2.1425E-06	9.1507E+18	5.9462E+18
Ce-143	3.8020E-03	5.7252E-12	2.4110E+13	1.2522E+18
Ce-144	7.1165E+01	2.2312E-05	9.3311E+19	5.5732E+18
Pr-143	1.6418E+01	2.4381E-07	1.0268E+18	2.1761E+18
Nd-147	4.1067E+00	5.0763E-08	2.0796E+17	6.7911E+17
Np-239	2.9520E+00	1.2725E-08	3.2063E+16	2.0132E+19
Pu-238	2.3266E-01	1.3590E-05	3.4387E+19	1.7711E+16
Pu-239	2.3695E-02	3.8122E-04	9.6057E+20	1.8005E+15
Pu-240	4.1363E-02	1.8161E-05	4.5569E+19	3.1522E+15
Pu-241	9.1657E+00	9.2683E-05	2.3160E+20	6.9951E+17
Am-241	5.9993E-03	1.7512E-06	4.3759E+18	4.2313E+14
Cm-242	1.3116E+00	3.9624E-07	9.8604E+17	1.0484E+17
Cm-244	9.4225E-02	1.1512E-06	2.8412E+18	7.1895E+15

DW Transport Group Inventory:

Time (h) = 480.0000	Atmosphere	Sump
Noble gases (atoms)	1.7650E+25	0.0000E+00
Elemental I (atoms)	1.5896E+18	7.8121E+22
Organic I (atoms)	1.7012E+20	0.0000E+00
Aerosols (kg)	5.0106E-02	6.5810E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		1.0545E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.0549E-06
Total I (Ci)		9.2696E+03

DW to WW Transport Group Inventory:

Time (h) = 480.0000 Leakage Transport

Noble gases (atoms)	3.6071E+29
Elemental I (atoms)	9.2690E+22
Organic I (atoms)	9.3178E+24
Aerosols (kg)	9.8281E+02

WW to DW Transport Group Inventory:

Time (h) = 480.0000 Leakage Transport

Noble gases (atoms)	3.6085E+29
Elemental I (atoms)	9.6814E+22
Organic I (atoms)	9.3262E+24
Aerosols (kg)	9.8617E+02

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DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7682E+24
Elemental I (atoms)	0.0000E+00	5.3864E+18
Organic I (atoms)	0.0000E+00	7.6132E+19
Aerosols (kg)	0.0000E+00	1.1646E-02

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5020E+23
Elemental I (atoms)	0.0000E+00	3.2664E+17
Organic I (atoms)	0.0000E+00	6.8793E+18
Aerosols (kg)	0.0000E+00	9.0088E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7820E+23
Elemental I (atoms)	0.0000E+00	8.8565E+17
Organic I (atoms)	0.0000E+00	1.8648E+19
Aerosols (kg)	0.0000E+00	2.4422E-03

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7820E+23
Elemental I (atoms)	0.0000E+00	8.8565E+17
Organic I (atoms)	0.0000E+00	1.8648E+19
Aerosols (kg)	0.0000E+00	2.4422E-03

RB Compartment Nuclide Inventory:

Time (h) = 480.0000	Ci	kg	Atoms	Decay
Kr-85	2.9389E+03	7.4978E-03	5.3121E+22	2.1160E+20
Rb-86	7.0786E-02	8.6996E-10	6.0919E+15	1.1822E+16
Sr-89	6.2138E+00	2.1388E-07	1.4472E+18	5.8944E+17
Sr-90	8.7358E-01	6.4042E-06	4.2852E+19	7.0524E+16
Y-90	8.7363E-01	1.6057E-09	1.0744E+16	4.9520E+16
Y-91	1.0071E-01	4.1067E-09	2.7177E+16	9.1293E+15
Zr-95	9.7418E-02	4.5347E-09	2.8746E+16	8.9254E+15
Zr-97	3.2896E-10	1.7208E-19	1.0683E+06	1.2789E+15
Nb-95	1.1530E-01	2.9485E-09	1.8691E+16	9.5303E+15
Mo-99	9.8761E-03	2.0592E-11	1.2526E+14	3.6956E+16
Tc-99m	1.0125E-02	1.9256E-12	1.1714E+13	3.4926E+16
Ru-103	9.2900E-01	2.8785E-08	1.6830E+17	9.2420E+16
Ru-106	5.2936E-01	1.5823E-07	8.9893E+17	4.3644E+16
Rh-105	8.2954E-05	9.8280E-14	5.6367E+11	1.6355E+16
Sb-127	4.1534E-02	1.5553E-10	7.3750E+14	4.5188E+16
Te-127	2.7922E-01	1.0580E-10	5.0169E+14	5.9831E+16
Te-127m	2.3513E-01	2.4928E-08	1.1820E+17	2.0153E+16
Te-129	4.8617E-01	2.3215E-11	1.0837E+14	5.6884E+16
Te-129m	5.6224E-01	1.8663E-08	8.7127E+16	5.7996E+16
Te-131m	4.8782E-05	6.1176E-14	2.8123E+11	4.8698E+16
Te-132	3.2568E-01	1.0728E-09	4.8942E+15	6.1561E+17
I-131	2.7846E+01	2.2461E-07	1.0325E+18	7.5168E+18
I-132	3.8874E-01	3.7660E-11	1.7181E+14	1.5221E+18
I-133	3.6456E-05	3.2182E-14	1.4572E+11	5.0005E+18
Xe-133	2.6405E+04	1.4106E-04	6.3873E+20	9.9953E+21
Xe-133m	2.2417E+01	5.0917E-08	2.3055E+17	1.5043E+20
Xe-135	2.3504E-11	9.2039E-21	4.1057E+04	4.0865E+20
Cs-134	1.4608E+01	1.1291E-05	5.0742E+19	1.4765E+18
Cs-136	1.5757E+00	2.1499E-08	9.5198E+16	3.3240E+17
Cs-137	1.1537E+01	1.3264E-04	5.8305E+20	1.1530E+18
Ba-140	4.0513E+00	5.5339E-08	2.3804E+17	6.4721E+17
La-140	4.7025E+00	8.4603E-09	3.6392E+16	4.9105E+17
Ce-141	1.8595E-01	6.5259E-09	2.7872E+16	1.9351E+16
Ce-143	1.1581E-05	1.7438E-14	7.3438E+10	4.4532E+15
Ce-144	2.1676E-01	6.7961E-08	2.8422E+17	1.7987E+16
Pr-143	5.0007E-02	7.4263E-10	3.1274E+15	7.1390E+15
Nd-147	1.2509E-02	1.5462E-10	6.3343E+14	2.2514E+15
Np-239	8.9916E-03	3.8759E-11	9.7661E+13	7.1344E+16
Pu-238	7.0865E-04	4.1394E-08	1.0474E+17	5.7098E+13

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Pu-239	7.2174E-05	1.1612E-06	2.9258E+18	5.8032E+12
Pu-240	1.2599E-04	5.5316E-08	1.3880E+17	1.0163E+13
Pu-241	2.7918E-02	2.8231E-07	7.0543E+17	2.2554E+15
Am-241	1.8273E-05	5.3340E-09	1.3329E+16	1.3600E+12
Cm-242	3.9952E-03	1.2069E-09	3.0034E+15	3.3862E+14
Cm-244	2.8700E-04	3.5064E-09	8.6540E+15	2.3181E+13

RB Transport Group Inventory:

Time (h) = 480.0000	Atmosphere	Sump
Noble gases (atoms)	5.3760E+22	0.0000E+00
Elemental I (atoms)	4.8417E+15	0.0000E+00
Organic I (atoms)	5.1818E+17	0.0000E+00
Aerosols (kg)	1.5262E-04	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.0693E-10
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.0714E-10
Total I (Ci)		2.8235E+01

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7682E+24
Elemental I (atoms)	0.0000E+00	5.3864E+18
Organic I (atoms)	0.0000E+00	7.6132E+19
Aerosols (kg)	0.0000E+00	1.1646E-02

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4564E+24
Elemental I (atoms)	0.0000E+00	4.4504E+17
Organic I (atoms)	0.0000E+00	3.9708E+19
Aerosols (kg)	0.0000E+00	3.9900E-03

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1602E+24
Elemental I (atoms)	5.0452E+18	5.0961E+16
Organic I (atoms)	1.1022E+20	1.1133E+18
Aerosols (kg)	1.5071E-02	1.5223E-04

Environment Integral Nuclide Release:

Time (h) = 480.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8815E+03	1.9122E-07	1.3874E+18	1.4362E+14
Kr-85m	4.5718E+04	5.5553E-06	3.9359E+19	1.6916E+15
Kr-85	2.1632E+05	5.5187E-01	3.9099E+24	8.0037E+15
Kr-87	7.4979E+03	2.6471E-07	1.8323E+18	2.7742E+14
Kr-88	5.5968E+04	4.4634E-06	3.0545E+19	2.0708E+15
Rb-86	3.1927E-01	3.9238E-09	2.7477E+16	1.1813E+10
Rb-88	3.0534E+04	2.5294E-07	1.7309E+18	1.1297E+15
Sr-89	6.4508E+00	2.2204E-07	1.5024E+18	2.3868E+11
Sr-90	7.6660E-01	5.6200E-06	3.7605E+19	2.8364E+10
Sr-91	1.2590E+00	3.4731E-10	2.2984E+15	4.6583E+10
Sr-92	6.9657E-01	5.5418E-11	3.6275E+14	2.5773E+10
Y-90	5.1124E-01	9.3968E-10	6.2876E+15	1.8916E+10
Y-91	9.8752E-02	4.0268E-09	2.6648E+16	3.6538E+09
Y-92	2.2563E-01	2.3448E-11	1.5349E+14	8.3482E+09
Y-93	1.4682E-02	4.4007E-12	2.8496E+13	5.4324E+08
Zr-95	9.7537E-02	4.5402E-09	2.8781E+16	3.6089E+09
Zr-97	1.8753E-02	9.8097E-12	6.0903E+13	6.9386E+08
Nb-95	1.0368E-01	2.6515E-09	1.6808E+16	3.8363E+09
Mo-99	4.5519E-01	9.4908E-10	5.7732E+15	1.6842E+10
Tc-99m	4.3952E-01	8.3587E-11	5.0845E+14	1.6262E+10
Ru-103	1.0135E+00	3.1402E-08	1.8360E+17	3.7498E+10
Ru-105	8.1714E-02	1.2156E-11	6.9720E+13	3.0234E+09

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Ru-106	4.7483E-01	1.4193E-07	8.0633E+17	1.7569E+10
Rh-105	2.1190E-01	2.5105E-10	1.4399E+15	7.8404E+09
Sb-127	5.3945E-01	2.0200E-09	9.5786E+15	1.9960E+10
Sb-129	4.0215E-01	7.1513E-11	3.3385E+14	1.4879E+10
Te-127	7.0648E-01	2.6770E-10	1.2694E+15	2.6140E+10
Te-127m	2.1945E-01	2.3265E-08	1.1032E+17	8.1195E+09
Te-129	9.1373E-01	4.3631E-11	2.0368E+14	3.3808E+10
Te-129m	6.3672E-01	2.1136E-08	9.8669E+16	2.3559E+10
Te-131m	6.5687E-01	8.2376E-10	3.7869E+15	2.4304E+10
Te-132	7.4590E+00	2.4569E-08	1.1209E+17	2.7598E+11
I-131	1.6381E+02	1.3213E-06	6.0741E+18	6.0609E+12
I-132	1.2581E+02	1.2188E-08	5.5605E+16	4.6549E+12
I-133	2.2798E+02	2.0126E-07	9.1127E+17	8.4354E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8585E+02	5.2919E-08	2.3606E+17	6.8763E+12
Xe-133	1.0197E+07	5.4474E-02	2.4666E+23	3.7727E+17
Xe-133m	1.5300E+05	3.4752E-04	1.5736E+21	5.6609E+15
Xe-135	4.0665E+05	1.5924E-04	7.1033E+20	1.5046E+16
Xe-135m	5.4830E+02	6.0231E-09	2.6868E+16	2.0287E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	3.4960E+01	2.7021E-05	1.2143E+20	1.2935E+12
Cs-136	9.4491E+00	1.2893E-07	5.7089E+17	3.4962E+11
Cs-137	2.7211E+01	3.1284E-04	1.3751E+21	1.0068E+12
Ba-139	5.4552E-01	3.3351E-11	1.4449E+14	2.0184E+10
Ba-140	7.2367E+00	9.8850E-08	4.2520E+17	2.6776E+11
La-140	5.0878E+00	9.1536E-09	3.9374E+16	1.8825E+11
La-141	9.2007E-03	1.6269E-12	6.9485E+12	3.4043E+08
La-142	5.2694E-03	3.6811E-13	1.5611E+12	1.9497E+08
Ce-141	2.1257E-01	7.4604E-09	3.1864E+16	7.8652E+09
Ce-143	5.9340E-02	8.9356E-11	3.7630E+14	2.1956E+09
Ce-144	1.9575E-01	6.1373E-08	2.5666E+17	7.2426E+09
Pr-143	7.8643E-02	1.1679E-09	4.9182E+15	2.9098E+09
Nd-147	2.5293E-02	3.1265E-10	1.2808E+15	9.3584E+08
Np-239	8.9302E-01	3.8494E-09	9.6993E+15	3.3042E+10
Pu-238	6.2060E-04	3.6251E-08	9.1726E+16	2.2962E+07
Pu-239	6.3049E-05	1.0144E-06	2.5559E+18	2.3328E+06
Pu-240	1.1047E-04	4.8502E-08	1.2170E+17	4.0873E+06
Pu-241	2.4517E-02	2.4792E-07	6.1950E+17	9.0714E+08
Am-241	1.4733E-05	4.3005E-09	1.0746E+16	5.4512E+05
Cm-242	3.6883E-03	1.1142E-09	2.7727E+15	1.3647E+08
Cm-244	2.5198E-04	3.0785E-09	7.5980E+15	9.3233E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 480.0000	Release	Rate/s	
Noble gases (atoms)	4.1589E+24	2.4068E+18	
Elemental I (atoms)	2.5771E+17	1.4914E+11	
Organic I (atoms)	1.1189E+18	6.4752E+11	
Aerosols (kg)	3.4918E-04	2.0207E-10	
Dose Effective (Ci) I-131 (Thyroid)		2.0802E+02	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		2.4712E+02	
Total I (Ci)		8.4255E+02	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7450E+19
Elemental I (atoms)	1.9291E+14	1.9662E+12
Organic I (atoms)	1.7801E+13	1.8035E+11
Aerosols (kg)	1.8402E-07	1.8755E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0834E+18
Elemental I (atoms)	0.0000E+00	3.6090E+13
Organic I (atoms)	0.0000E+00	3.3300E+12
Aerosols (kg)	0.0000E+00	3.4428E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	3.2287E+19	0.0000E+00
Elemental I (atoms)	2.5734E+13	0.0000E+00

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Organic I (atoms)	2.4025E+12	0.0000E+00
Aerosols (kg)	2.5610E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1602E+24
Elemental I (atoms)	5.0452E+18	5.0961E+16
Organic I (atoms)	1.1022E+20	1.1133E+18
Aerosols (kg)	1.5071E-02	1.5223E-04

CR Compartment Nuclide Inventory:

Time (h) = 480.0000	Ci	kg	Atoms	Decay
Kr-85	1.0598E-02	2.7038E-08	1.9156E+17	8.7758E+14
Rb-86	2.9641E-10	3.6429E-18	2.5509E+07	1.3556E+10
Sr-89	2.6020E-08	8.9563E-16	6.0602E+09	3.2064E+10
Sr-90	3.6581E-09	2.6817E-14	1.7944E+11	3.4688E+09
Y-90	3.6583E-09	6.7240E-18	4.4992E+07	3.4962E+08
Y-91	4.2173E-10	1.7197E-17	1.1380E+08	4.2789E+08
Zr-95	4.0793E-10	1.8989E-17	1.2037E+08	4.7550E+08
Nb-95	4.8280E-10	1.2347E-17	7.8267E+07	4.7280E+08
Mo-99	4.1355E-11	8.6226E-20	5.2451E+05	5.4669E+09
Tc-99m	4.2399E-11	8.0634E-21	4.9050E+04	4.9443E+09
Ru-103	3.8901E-09	1.2054E-16	7.0474E+08	5.1694E+09
Ru-106	2.2167E-09	6.6256E-16	3.7642E+09	2.1763E+09
Sb-127	1.7392E-10	6.5127E-19	3.0882E+06	5.5435E+09
Te-127	1.1692E-09	4.4303E-19	2.1008E+06	5.6532E+09
Te-127m	9.8460E-10	1.0438E-16	4.9497E+08	1.0179E+09
Te-129	2.0358E-09	9.7211E-20	4.5381E+05	1.1837E+10
Te-129m	2.3543E-09	7.8152E-17	3.6484E+08	3.3016E+09
Te-132	1.3638E-09	4.4921E-18	2.0494E+07	8.2877E+10
I-131	1.1660E-07	9.4053E-16	4.3237E+09	5.9270E+12
I-132	1.6278E-09	1.5770E-19	7.1946E+05	4.1376E+12
Xe-133	9.5218E-02	5.0869E-10	2.3033E+15	4.7842E+16
Xe-133m	8.0837E-05	1.8361E-13	8.3139E+11	8.3450E+14
Cs-134	6.1172E-08	4.7279E-14	2.1248E+11	1.3637E+12
Cs-136	6.5980E-09	9.0025E-17	3.9864E+08	4.1260E+11
Cs-137	4.8312E-08	5.5543E-13	2.4415E+12	1.0589E+12
Ba-140	1.6965E-08	2.3173E-16	9.9679E+08	4.5942E+10
La-140	1.9691E-08	3.5427E-17	1.5239E+08	4.7913E+09
Ce-141	7.7864E-10	2.7327E-17	1.1671E+08	1.1090E+09
Ce-144	9.0768E-10	2.8458E-16	1.1901E+09	9.0069E+08
Pr-143	2.0940E-10	3.1097E-18	1.3096E+07	4.2670E+08
Nd-147	5.2379E-11	6.4747E-19	2.6525E+06	1.6811E+08
Np-239	3.7652E-11	1.6230E-19	4.0895E+05	1.1487E+10
Pu-238	2.9674E-12	1.7333E-16	4.3859E+08	2.8047E+06
Pu-239	3.0222E-13	4.8623E-15	1.2252E+10	2.8316E+05
Pu-240	5.2757E-13	2.3163E-16	5.8121E+08	4.9961E+05
Pu-241	1.1690E-10	1.1821E-15	2.9539E+09	1.1099E+08
Am-241	7.6519E-14	2.2336E-17	5.5813E+07	6.3197E+04
Cm-242	1.6730E-11	5.0539E-18	1.2577E+07	1.7188E+07
Cm-244	1.2018E-12	1.4683E-17	3.6238E+07	1.1405E+06

CR Transport Group Inventory:

Time (h) = 480.0000	Atmosphere	Sump	
Noble gases (atoms)	1.9386E+17	0.0000E+00	
Elemental I (atoms)	2.0274E+07	0.0000E+00	
Organic I (atoms)	2.1698E+09	0.0000E+00	
Aerosols (kg)	6.3908E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0809E-17
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0813E-17
Total I (Ci)			1.1823E-07

	Deposition	Recirculating
Time (h) = 480.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0748E+13

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Organic I (atoms)	0.0000E+00	1.0034E+12
Aerosols (kg)	0.0000E+00	1.0696E-08

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7450E+19
Elemental I (atoms)	1.9291E+14	1.9662E+12
Organic I (atoms)	1.7801E+13	1.8035E+11
Aerosols (kg)	1.8402E-07	1.8755E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0834E+18
Elemental I (atoms)	0.0000E+00	3.6090E+13
Organic I (atoms)	0.0000E+00	3.3300E+12
Aerosols (kg)	0.0000E+00	3.4428E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	3.2287E+19	0.0000E+00
Elemental I (atoms)	2.5734E+13	0.0000E+00
Organic I (atoms)	2.4025E+12	0.0000E+00
Aerosols (kg)	2.5610E-08	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.0658E-02	6.9126E-02	8.9968E-02
Accumulated dose (rem)	3.1884E+00	6.6774E+00	3.4911E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0846E-04	1.1740E-04	2.2427E-04
Accumulated dose (rem)	3.2632E-01	8.6311E-01	3.6366E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3187E-04	9.5915E-04	7.6105E-04
Accumulated dose (rem)	9.3718E-02	7.8398E+00	4.6752E-01

DW Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	8.8512E+05	2.2581E+00	1.5999E+25	9.6782E+22
Rb-86	1.4730E+01	1.8103E-07	1.2677E+18	3.6165E+18
Sr-89	1.6343E+03	5.6254E-05	3.8064E+20	2.4022E+20
Sr-90	2.6339E+02	1.9309E-03	1.2920E+22	3.0661E+19
Y-90	2.6478E+02	4.8667E-07	3.2564E+18	2.4691E+19
Y-91	2.6991E+01	1.1006E-06	7.2835E+18	3.7640E+18
Zr-95	2.6374E+01	1.2277E-06	7.7822E+18	3.6852E+18
Zr-97	5.2691E-12	2.7563E-21	1.7112E+04	3.8463E+17
Nb-95	3.3489E+01	8.5642E-07	5.4289E+18	4.0937E+18
Mo-99	2.3962E-01	4.9960E-10	3.0390E+15	1.0530E+19
Tc-99m	2.4566E-01	4.6720E-11	2.8419E+14	9.8774E+18
Ru-103	2.3494E+02	7.2797E-06	4.2562E+19	3.7027E+19
Ru-106	1.5673E+02	4.6848E-05	2.6615E+20	1.8804E+19
Rh-105	2.2658E-04	2.6845E-13	1.5396E+12	4.4671E+18
Sb-127	2.0706E+00	7.7535E-09	3.6766E+16	1.3241E+19
Te-127	6.9953E+01	2.6506E-08	1.2569E+17	2.0088E+19
Te-127m	6.6634E+01	7.0642E-06	3.3497E+19	8.5348E+18
Te-129	1.1934E+02	5.6985E-09	2.6602E+16	2.3866E+19
Te-129m	1.3801E+02	4.5812E-06	2.1387E+19	2.2943E+19
Te-131m	5.7492E-05	7.2099E-14	3.3144E+11	1.3745E+19
Te-132	1.1708E+01	3.8566E-08	1.7595E+17	1.7758E+20
I-131	3.5475E+03	2.8615E-05	1.3154E+20	2.2200E+21
I-132	1.3975E+01	1.3539E-09	6.1769E+15	5.9763E+20
I-133	3.6977E-06	3.2642E-15	1.4780E+10	1.0831E+21
Xe-133	2.1260E+06	1.1358E-02	5.1427E+22	3.1906E+24
Xe-133m	3.0217E+02	6.8634E-07	3.1077E+18	4.3365E+22
Cs-134	4.3670E+03	3.3753E-03	1.5169E+22	5.4301E+20

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Cs-136	2.8006E+02	3.8213E-06	1.6921E+19	9.5462E+19
Cs-137	3.4787E+03	3.9993E-02	1.7580E+23	4.2621E+20
Ba-140	7.0940E+02	9.6901E-06	4.1682E+19	2.2754E+20
La-140	8.2405E+02	1.4826E-06	6.3773E+18	1.9086E+20
Ce-141	4.5326E+01	1.5908E-06	6.7942E+18	7.6337E+18
Ce-143	2.2595E-05	3.4024E-14	1.4328E+11	1.2523E+18
Ce-144	6.3823E+01	2.0010E-05	8.3684E+19	7.7283E+18
Pr-143	9.0496E+00	1.3439E-07	5.6595E+17	2.5715E+18
Nd-147	2.0074E+00	2.4814E-08	1.0165E+17	7.7285E+17
Np-239	1.4294E-01	6.1616E-10	1.5525E+15	2.0161E+19
Pu-238	2.1401E-01	1.2501E-05	3.1631E+19	2.4845E+16
Pu-239	2.1776E-02	3.5034E-04	8.8276E+20	2.5268E+15
Pu-240	3.8013E-02	1.6690E-05	4.1878E+19	4.4200E+15
Pu-241	8.4123E+00	8.5066E-05	2.1256E+20	9.8026E+17
Am-241	5.8819E-03	1.7169E-06	4.2903E+18	6.1304E+14
Cm-242	1.1552E+00	3.4897E-07	8.6842E+17	1.4421E+17
Cm-244	8.6499E-02	1.0568E-06	2.6082E+18	1.0076E+16

DW Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	1.6050E+25	0.0000E+00	
Elemental I (atoms)	6.1676E+17	7.8121E+22	
Organic I (atoms)	6.6008E+19	0.0000E+00	
Aerosols (kg)	4.5944E-02	6.5810E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.0915E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.0920E-07
Total I (Ci)			3.5615E+03

DW to WW Transport Group Inventory:

Time (h) = 720.0000 Leakage Transport

Noble gases (atoms)	5.1162E+29
Elemental I (atoms)	1.0192E+23
Organic I (atoms)	1.0306E+25
Aerosols (kg)	1.4134E+03

WW to DW Transport Group Inventory:

Time (h) = 720.0000 Leakage Transport

Noble gases (atoms)	5.1176E+29
Elemental I (atoms)	1.0605E+23
Organic I (atoms)	1.0315E+25
Aerosols (kg)	1.4167E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8599E+24
Elemental I (atoms)	0.0000E+00	5.4533E+18
Organic I (atoms)	0.0000E+00	8.3282E+19
Aerosols (kg)	0.0000E+00	1.4761E-02

DW to Dummy (Bypass Pathway 5) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4885E+23
Elemental I (atoms)	0.0000E+00	3.3267E+17
Organic I (atoms)	0.0000E+00	7.5253E+18
Aerosols (kg)	0.0000E+00	1.1823E-03

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4560E+23
Elemental I (atoms)	0.0000E+00	9.0201E+17
Organic I (atoms)	0.0000E+00	2.0399E+19
Aerosols (kg)	0.0000E+00	3.2050E-03

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4560E+23
Elemental I (atoms)	0.0000E+00	9.0201E+17
Organic I (atoms)	0.0000E+00	2.0399E+19

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Aerosols (kg) 0.0000E+00 3.2050E-03

RB Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	2.6960E+03	6.8781E-03	4.8731E+22	3.0160E+20
Rb-86	4.4867E-02	5.5141E-10	3.8613E+15	1.3639E+16
Sr-89	4.9780E+00	1.7135E-07	1.1594E+18	7.6757E+17
Sr-90	8.0227E-01	5.8815E-06	3.9354E+19	9.7290E+16
Y-90	8.0649E-01	1.4824E-09	9.9188E+15	7.6238E+16
Y-91	8.2212E-02	3.3523E-09	2.2185E+16	1.2043E+16
Zr-95	8.0332E-02	3.7394E-09	2.3704E+16	1.1757E+16
Nb-95	1.0200E-01	2.6086E-09	1.6536E+16	1.3001E+16
Mo-99	7.2985E-04	1.5217E-12	9.2567E+12	3.7068E+16
Tc-99m	7.4827E-04	1.4230E-13	8.6563E+11	3.5035E+16
Ru-103	7.1562E-01	2.2173E-08	1.2964E+17	1.1856E+17
Ru-106	4.7740E-01	1.4269E-07	8.1068E+17	5.9719E+16
Rh-105	6.9016E-07	8.1767E-16	4.6896E+09	1.6355E+16
Sb-127	6.3069E-03	2.3617E-11	1.1199E+14	4.5786E+16
Te-127	2.1307E-01	8.0736E-11	3.8284E+14	6.7253E+16
Te-127m	2.0296E-01	2.1517E-08	1.0203E+17	2.7143E+16
Te-129	3.6350E-01	1.7357E-11	8.1029E+13	6.7039E+16
Te-129m	4.2037E-01	1.3954E-08	6.5142E+16	7.3589E+16
Te-131m	1.7512E-07	2.1961E-16	1.0095E+09	4.8698E+16
Te-132	3.5663E-02	1.1747E-10	5.3593E+14	6.1980E+17
I-131	1.0806E+01	8.7159E-08	4.0067E+17	8.0921E+18
I-132	4.2568E-02	4.1239E-12	1.8814E+13	1.5264E+18
I-133	1.1263E-08	9.9425E-18	4.5019E+07	5.0005E+18
Xe-133	6.4755E+03	3.4595E-05	1.5664E+20	1.0449E+22
Xe-133m	9.2037E-01	2.0905E-09	9.4658E+15	1.5064E+20
Cs-134	1.3302E+01	1.0281E-05	4.6204E+19	1.9222E+18
Cs-136	8.5305E-01	1.1639E-08	5.1539E+16	3.7004E+17
Cs-137	1.0596E+01	1.2182E-04	5.3547E+20	1.5065E+18
Ba-140	2.1608E+00	2.9515E-08	1.2696E+17	7.4334E+17
La-140	2.5100E+00	4.5158E-09	1.9425E+16	6.0187E+17
Ce-141	1.3806E-01	4.8453E-09	2.0694E+16	2.4491E+16
Ce-143	6.8821E-08	1.0363E-16	4.3643E+08	4.4533E+15
Ce-144	1.9440E-01	6.0950E-08	2.5490E+17	2.4552E+16
Pr-143	2.7565E-02	4.0934E-10	1.7239E+15	8.3433E+15
Nd-147	6.1143E-03	7.5580E-11	3.0963E+14	2.5369E+15
Np-239	4.3539E-04	1.8768E-12	4.7289E+12	7.1434E+16
Pu-238	6.5187E-04	3.8077E-08	9.6347E+16	7.8828E+13
Pu-239	6.6328E-05	1.0671E-06	2.6888E+18	8.0154E+12
Pu-240	1.1578E-04	5.0835E-08	1.2756E+17	1.4024E+13
Pu-241	2.5623E-02	2.5910E-07	6.4745E+17	3.1105E+15
Am-241	1.7916E-05	5.2296E-09	1.3068E+16	1.9385E+12
Cm-242	3.5186E-03	1.0629E-09	2.6451E+15	4.5854E+14
Cm-244	2.6347E-04	3.2188E-09	7.9444E+15	3.1973E+13

RB Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	4.8887E+22	0.0000E+00
Elemental I (atoms)	1.8786E+15	0.0000E+00
Organic I (atoms)	2.0106E+17	0.0000E+00
Aerosols (kg)	1.3994E-04	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.9670E-10
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.9673E-10
Total I (Ci)		1.0848E+01

DW to RB Transport Group Inventory:

Time (h) = 720.0000	Pathway	Transported
Noble gases (atoms)	Filtered	3.8599E+24
Elemental I (atoms)	Filtered	5.4533E+18
Organic I (atoms)	Filtered	8.3282E+19
Aerosols (kg)	Filtered	1.4761E-02

WW to RB Transport Group Inventory:

Time (h) = 720.0000	Pathway	Transported
Noble gases (atoms)	Filtered	2.0338E+24
Elemental I (atoms)	Filtered	4.8037E+17
Organic I (atoms)	Filtered	4.3489E+19
Aerosols (kg)	Filtered	5.6373E-03

Drawdown Release from RB to Environment Transport Group Inventory:

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	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8336E+24
Elemental I (atoms)	5.1466E+18	5.1985E+16
Organic I (atoms)	1.2107E+20	1.2229E+18
Aerosols (kg)	1.9797E-02	1.9997E-04

Environment Integral Nuclide Release:

Time (h) = 720.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8815E+03	1.9122E-07	1.3874E+18	1.4362E+14
Kr-85m	4.5718E+04	5.5553E-06	3.9359E+19	1.6916E+15
Kr-85	3.0828E+05	7.8648E-01	5.5721E+24	1.1406E+16
Kr-87	7.4979E+03	2.6471E-07	1.8323E+18	2.7742E+14
Kr-88	5.5968E+04	4.4634E-06	3.0545E+19	2.0708E+15
Rb-86	3.3782E-01	4.1518E-09	2.9073E+16	1.2499E+10
Rb-88	3.0534E+04	2.5294E-07	1.7309E+18	1.1297E+15
Sr-89	8.2704E+00	2.8467E-07	1.9262E+18	3.0601E+11
Sr-90	1.0401E+00	7.6250E-06	5.1021E+19	3.8484E+10
Sr-91	1.2590E+00	3.4731E-10	2.2984E+15	4.6583E+10
Sr-92	6.9657E-01	5.5418E-11	3.6275E+14	2.5773E+10
Y-90	7.8574E-01	1.4442E-09	9.6636E+15	2.9072E+10
Y-91	1.2851E-01	5.2404E-09	3.4679E+16	4.7550E+09
Y-92	2.2563E-01	2.3448E-11	1.5349E+14	8.3482E+09
Y-93	1.4682E-02	4.4007E-12	2.8496E+13	5.4324E+08
Zr-95	1.2647E-01	5.8869E-09	3.7318E+16	4.6793E+09
Zr-97	1.8753E-02	9.8097E-12	6.0903E+13	6.9386E+08
Nb-95	1.3915E-01	3.5587E-09	2.2559E+16	5.1487E+09
Mo-99	4.5633E-01	9.5146E-10	5.7877E+15	1.6884E+10
Tc-99m	4.4069E-01	8.3809E-11	5.0981E+14	1.6305E+10
Ru-103	1.2804E+00	3.9673E-08	2.3196E+17	4.7375E+10
Ru-105	8.1714E-02	1.2156E-11	6.9720E+13	3.0234E+09
Ru-106	6.3908E-01	1.9102E-07	1.0853E+18	2.3646E+10
Rh-105	2.1191E-01	2.5106E-10	1.4399E+15	7.8406E+09
Sb-127	5.4553E-01	2.0428E-09	9.6866E+15	2.0185E+10
Sb-129	4.0215E-01	7.1513E-11	3.3385E+14	1.4879E+10
Te-127	7.8511E-01	2.9749E-10	1.4106E+15	2.9049E+10
Te-127m	2.9086E-01	3.0835E-08	1.4622E+17	1.0762E+10
Te-129	1.0515E+00	5.0207E-11	2.3438E+14	3.8904E+10
Te-129m	7.9599E-01	2.6423E-08	1.2335E+17	2.9452E+10
Te-131m	6.5688E-01	8.2377E-10	3.7869E+15	2.4304E+10
Te-132	7.5016E+00	2.4709E-08	1.1273E+17	2.7756E+11
I-131	1.6968E+02	1.3686E-06	6.2917E+18	6.2780E+12
I-132	1.2586E+02	1.2193E-08	5.5627E+16	4.6567E+12
I-133	2.2798E+02	2.0126E-07	9.1127E+17	8.4354E+12
I-134	1.3910E+02	5.2144E-09	2.3434E+16	5.1469E+12
I-135	1.8585E+02	5.2919E-08	2.3606E+17	6.8763E+12
Xe-133	1.0658E+07	5.6942E-02	2.5783E+23	3.9436E+17
Xe-133m	1.5322E+05	3.4802E-04	1.5758E+21	5.6690E+15
Xe-135	4.0665E+05	1.5924E-04	7.1033E+20	1.5046E+16
Xe-135m	5.4830E+02	6.0231E-09	2.6868E+16	2.0287E+13
Xe-138	1.3105E+02	1.3658E-09	5.9602E+15	4.8489E+12
Cs-134	3.9514E+01	3.0541E-05	1.3725E+20	1.4620E+12
Cs-136	9.8333E+00	1.3417E-07	5.9410E+17	3.6383E+11
Cs-137	3.0823E+01	3.5436E-04	1.5577E+21	1.1405E+12
Ba-139	5.4552E-01	3.3351E-11	1.4449E+14	2.0184E+10
Ba-140	8.2178E+00	1.1225E-07	4.8286E+17	3.0406E+11
La-140	6.2273E+00	1.1204E-08	4.8193E+16	2.3041E+11
La-141	9.2007E-03	1.6269E-12	6.9485E+12	3.4043E+08
La-142	5.2694E-03	3.6811E-13	1.5611E+12	1.9497E+08
Ce-141	2.6507E-01	9.3029E-09	3.9733E+16	9.8077E+09
Ce-143	5.9341E-02	8.9357E-11	3.7631E+14	2.1956E+09
Ce-144	2.6282E-01	8.2402E-08	3.4461E+17	9.7243E+09
Pr-143	9.0936E-02	1.3504E-09	5.6870E+15	3.3646E+09
Nd-147	2.8207E-02	3.4867E-10	1.4284E+15	1.0436E+09
Np-239	8.9394E-01	3.8533E-09	9.7093E+15	3.3076E+10
Pu-238	8.4265E-04	4.9221E-08	1.2454E+17	3.1178E+07
Pu-239	8.5653E-05	1.3780E-06	3.4722E+18	3.1691E+06

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Pu-240	1.4993E-04	6.5826E-08	1.6517E+17	5.5473E+06
Pu-241	3.3255E-02	3.3628E-07	8.4029E+17	1.2304E+09
Am-241	2.0645E-05	6.0264E-09	1.5059E+16	7.6387E+05
Cm-242	4.9136E-03	1.4844E-09	3.6938E+15	1.8180E+08
Cm-244	3.4182E-04	4.1760E-09	1.0307E+16	1.2647E+07

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 720.0000	Release	Rate/s	
Noble gases (atoms)	5.8323E+24	2.2501E+18	
Elemental I (atoms)	2.5873E+17	9.9819E+10	
Organic I (atoms)	1.2281E+18	4.7381E+11	
Aerosols (kg)	3.9692E-04	1.5313E-10	
Dose Effective (Ci) I-131 (Thyroid)		2.1389E+02	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		2.5299E+02	
Total I (Ci)		8.4847E+02	

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6865E+19
Elemental I (atoms)	1.9291E+14	1.9662E+12
Organic I (atoms)	1.8411E+13	1.8652E+11
Aerosols (kg)	1.8429E-07	1.8782E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8268E+18
Elemental I (atoms)	0.0000E+00	3.6091E+13
Organic I (atoms)	0.0000E+00	3.4441E+12
Aerosols (kg)	0.0000E+00	3.4478E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	4.3461E+19	0.0000E+00
Elemental I (atoms)	2.5735E+13	0.0000E+00
Organic I (atoms)	2.4875E+12	0.0000E+00
Aerosols (kg)	2.5647E-08	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8336E+24
Elemental I (atoms)	5.1466E+18	5.1985E+16
Organic I (atoms)	1.2107E+20	1.2229E+18
Aerosols (kg)	1.9797E-02	1.9997E-04

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	9.7221E-03	2.4803E-08	1.7573E+17	1.2021E+15
Rb-86	1.8788E-10	2.3090E-18	1.6169E+07	1.3564E+10
Sr-89	2.0845E-08	7.1750E-16	4.8549E+09	3.2810E+10
Sr-90	3.3595E-09	2.4628E-14	1.6479E+11	3.5809E+09
Y-90	3.3771E-09	6.2072E-18	4.1534E+07	4.6150E+08
Y-91	3.4426E-10	1.4038E-17	9.2898E+07	4.4009E+08
Zr-95	3.3639E-10	1.5658E-17	9.9259E+07	4.8736E+08
Nb-95	4.2714E-10	1.0923E-17	6.9244E+07	4.8733E+08
Mo-99	3.0562E-12	6.3722E-21	3.8762E+04	5.4674E+09
Ru-103	2.9966E-09	9.2849E-17	5.4287E+08	5.2788E+09
Ru-106	1.9991E-09	5.9752E-16	3.3947E+09	2.2437E+09
Sb-127	2.6410E-11	9.8893E-20	4.6894E+05	5.5460E+09

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Te-127	8.9222E-10	3.3808E-19	1.6031E+06	5.6842E+09
Te-127m	8.4989E-10	9.0101E-17	4.2725E+08	1.0472E+09
Te-129	1.5221E-09	7.2682E-20	3.3930E+05	1.1880E+10
Te-129m	1.7603E-09	5.8432E-17	2.7278E+08	3.3669E+09
Te-132	1.4934E-10	4.9190E-19	2.2442E+06	8.2895E+10
I-131	4.5247E-08	3.6497E-16	1.6778E+09	5.9294E+12
I-132	1.7825E-10	1.7269E-20	7.8783E+04	4.1377E+12
Xe-133	2.3351E-02	1.2475E-10	5.6487E+14	4.9477E+16
Xe-133m	3.3189E-06	7.5387E-15	3.4135E+10	8.3528E+14
Cs-134	5.5700E-08	4.3051E-14	1.9347E+11	1.3656E+12
Cs-136	3.5721E-09	4.8739E-17	2.1582E+08	4.1275E+11
Cs-137	4.4369E-08	5.1010E-13	2.2423E+12	1.0604E+12
Ba-140	9.0482E-09	1.2359E-16	5.3164E+08	4.6344E+10
La-140	1.0510E-08	1.8909E-17	8.1340E+07	5.2553E+09
Ce-141	5.7812E-10	2.0289E-17	8.6657E+07	1.1306E+09
Ce-144	8.1404E-10	2.5523E-16	1.0674E+09	9.2818E+08
Pr-143	1.1542E-10	1.7141E-18	7.2185E+06	4.3174E+08
Nd-147	2.5603E-11	3.1649E-19	1.2966E+06	1.6930E+08
Np-239	1.8232E-12	7.8589E-21	1.9802E+04	1.1487E+10
Pu-238	2.7297E-12	1.5945E-16	4.0345E+08	2.8957E+06
Pu-239	2.7774E-13	4.4685E-15	1.1259E+10	2.9242E+05
Pu-240	4.8484E-13	2.1287E-16	5.3414E+08	5.1578E+05
Pu-241	1.0730E-10	1.0850E-15	2.7112E+09	1.1457E+08
Am-241	7.5021E-14	2.1899E-17	5.4721E+07	6.5619E+04
Cm-242	1.4734E-11	4.4510E-18	1.1076E+07	1.7690E+07
Cm-244	1.1033E-12	1.3479E-17	3.3267E+07	1.1773E+06

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.7629E+17	0.0000E+00
Elemental I (atoms)	7.8665E+06	0.0000E+00
Organic I (atoms)	8.4191E+08	0.0000E+00
Aerosols (kg)	5.8600E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.1941E-18
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.1946E-18
Total I (Ci)		4.5426E-08

Deposition Recirculating

Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0748E+13
Organic I (atoms)	0.0000E+00	1.0389E+12
Aerosols (kg)	0.0000E+00	1.0712E-08

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6865E+19
Elemental I (atoms)	1.9291E+14	1.9662E+12
Organic I (atoms)	1.8411E+13	1.8652E+11
Aerosols (kg)	1.8429E-07	1.8782E-09

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8268E+18
Elemental I (atoms)	0.0000E+00	3.6091E+13
Organic I (atoms)	0.0000E+00	3.4441E+12
Aerosols (kg)	0.0000E+00	3.4478E-08

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	4.3461E+19	0.0000E+00
Elemental I (atoms)	2.5735E+13	0.0000E+00
Organic I (atoms)	2.4875E+12	0.0000E+00
Aerosols (kg)	2.5647E-08	0.0000E+00

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I-131 Summary
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DW

WW

Dummy

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Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	5.3565E-04
0.017	1.8470E+05	0.0000E+00	4.8394E-01
0.083	9.2044E+05	0.0000E+00	1.2032E+01
0.333	3.6817E+06	0.0000E+00	1.9249E+02
0.500	6.8012E+05	0.0000E+00	2.6945E+02
0.750	9.4093E+05	0.0000E+00	3.3885E+02
1.000	9.4889E+05	0.0000E+00	4.1268E+02
1.400	9.5870E+05	0.0000E+00	5.3172E+02
1.700	9.6603E+05	0.0000E+00	6.2170E+02
2.000	9.7334E+05	0.0000E+00	7.1227E+02
2.250	5.9162E+04	4.0983E+04	7.2802E+02
2.400	6.0403E+04	3.7668E+04	7.3051E+02
2.700	6.0349E+04	3.7597E+04	7.3546E+02
3.000	6.0272E+04	3.7549E+04	7.4040E+02
3.300	6.0196E+04	3.7501E+04	7.4532E+02
3.600	6.0119E+04	3.7454E+04	7.5023E+02
3.900	6.0043E+04	3.7406E+04	7.5513E+02
4.000	6.0017E+04	3.7390E+04	7.5676E+02
4.300	5.9941E+04	3.7343E+04	7.6164E+02
4.600	5.9865E+04	3.7295E+04	7.6651E+02
4.900	5.9789E+04	3.7248E+04	7.7136E+02
5.200	5.9713E+04	3.7200E+04	7.7621E+02
5.500	5.9637E+04	3.7153E+04	7.8104E+02
5.800	5.9561E+04	3.7106E+04	7.8586E+02
6.000	5.9510E+04	3.7074E+04	7.8906E+02
6.300	5.9434E+04	3.7027E+04	7.9386E+02
6.600	5.9359E+04	3.6980E+04	7.9865E+02
6.900	5.9283E+04	3.6933E+04	8.0342E+02
7.200	5.9208E+04	3.6886E+04	8.0818E+02
7.500	5.9132E+04	3.6839E+04	8.1293E+02
7.800	5.9057E+04	3.6792E+04	8.1767E+02
8.000	5.9007E+04	3.6761E+04	8.2082E+02
8.300	5.8932E+04	3.6714E+04	8.2553E+02
8.600	5.8857E+04	3.6667E+04	8.3024E+02
8.900	5.8782E+04	3.6621E+04	8.3493E+02
9.200	5.8707E+04	3.6574E+04	8.3961E+02
9.500	5.8632E+04	3.6527E+04	8.4428E+02
9.800	5.8558E+04	3.6481E+04	8.4893E+02
10.100	5.8483E+04	3.6434E+04	8.5358E+02
10.400	5.8409E+04	3.6388E+04	8.5821E+02
16.000	5.7035E+04	3.5532E+04	9.4247E+02
24.000	5.5126E+04	3.4343E+04	1.0558E+03
48.000	5.0181E+04	3.1262E+04	1.1604E+03
96.000	4.1555E+04	2.5888E+04	1.2952E+03
240.000	2.3558E+04	1.4676E+04	1.3223E+03
480.000	9.1420E+03	5.6953E+03	9.2008E+02
720.000	3.5475E+03	2.2101E+03	5.2888E+02

Time (hr)	RB I-131 (Curies)	Environment I-131 (Curies)	CR I-131 (Curies)
0.000	3.4387E-02	5.2586E-07	3.6481E-10
0.017	3.1054E+01	1.4277E-02	9.8982E-06
0.083	7.7068E+02	1.7685E+00	3.2799E-04
0.333	1.0617E+03	2.0053E+01	3.5038E-03
0.500	1.1777E+03	3.5732E+01	6.0824E-03
0.750	1.2710E+03	6.0966E+01	9.9714E-03
1.000	1.3699E+03	8.8228E+01	1.3880E-02
1.400	1.4955E+03	8.9007E+01	1.2022E-02
1.700	1.5865E+03	8.9637E+01	1.0794E-02
2.000	1.6749E+03	9.0302E+01	9.6933E-03
2.250	1.6589E+03	9.0872E+01	8.8603E-03
2.400	1.6320E+03	9.1208E+01	8.3954E-03
2.700	1.5797E+03	9.1863E+01	7.5376E-03
3.000	1.5295E+03	9.2498E+01	6.7677E-03
3.300	1.4814E+03	9.3112E+01	6.0767E-03
3.600	1.4352E+03	9.3707E+01	5.4564E-03
3.900	1.3908E+03	9.4284E+01	4.8997E-03
4.000	1.3765E+03	9.4472E+01	4.7271E-03
4.300	1.3345E+03	9.5025E+01	4.2451E-03
4.600	1.2943E+03	9.5562E+01	3.8125E-03
4.900	1.2557E+03	9.6082E+01	3.4241E-03
5.200	1.2187E+03	9.6587E+01	3.0755E-03
5.500	1.1831E+03	9.7077E+01	2.7626E-03
5.800	1.1491E+03	9.7553E+01	2.4817E-03
6.000	1.1271E+03	9.7863E+01	2.3106E-03
6.300	1.0953E+03	9.8316E+01	2.0760E-03
6.600	1.0647E+03	9.8757E+01	1.8653E-03

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6.900	1.0354E+03	9.9186E+01	1.6762E-03
7.200	1.0073E+03	9.9603E+01	1.5065E-03
7.500	9.8032E+02	1.0001E+02	1.3541E-03
7.800	9.5443E+02	1.0040E+02	1.2173E-03
8.000	9.3774E+02	1.0066E+02	1.1339E-03
8.300	9.1356E+02	1.0104E+02	1.0183E-03
8.600	8.9036E+02	1.0141E+02	9.1459E-04
8.900	8.6809E+02	1.0177E+02	8.2147E-04
9.200	8.4671E+02	1.0212E+02	7.3790E-04
9.500	8.2619E+02	1.0246E+02	6.6287E-04
9.800	8.0650E+02	1.0279E+02	5.9553E-04
10.100	7.8760E+02	1.0311E+02	5.3508E-04
10.400	7.6945E+02	1.0343E+02	4.8082E-04
16.000	5.3672E+02	1.0829E+02	6.7878E-05
24.000	3.9779E+02	1.1325E+02	6.9706E-06
48.000	1.6090E+02	1.2063E+02	9.4445E-07
96.000	1.2658E+02	1.2979E+02	7.2039E-07
240.000	7.1756E+01	1.4868E+02	3.0047E-07
480.000	2.7846E+01	1.6381E+02	1.1660E-07
720.000	1.0806E+01	1.6968E+02	4.5247E-08

Cumulative Dose Summary
#####

Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	9.1664E-04	4.5228E-05	1.2479E-04	6.1570E-06	8.9558E-06	3.8315E-07
0.083	1.1347E-01	5.5753E-03	1.5447E-02	7.5900E-04	1.3129E-03	5.6799E-05
0.333	1.2841E+00	6.2469E-02	1.7482E-01	8.5042E-03	8.4230E-02	3.6405E-03
0.500	2.2853E+00	1.1065E-01	3.1110E-01	1.5064E-02	2.2700E-01	9.8038E-03
0.750	3.8945E+00	1.8896E-01	5.3017E-01	2.5724E-02	5.8530E-01	2.5299E-02
1.000	5.6342E+00	2.7739E-01	7.6701E-01	3.7762E-02	1.1166E+00	4.8518E-02
1.400	5.6466E+00	2.8604E-01	7.7296E-01	4.1911E-02	2.0361E+00	8.9174E-02
1.700	5.6566E+00	2.9692E-01	7.7775E-01	4.7131E-02	2.6414E+00	1.1618E-01
2.000	5.6672E+00	3.1220E-01	7.8282E-01	5.4463E-02	3.1830E+00	1.4061E-01
2.250	5.6762E+00	3.2830E-01	7.8715E-01	6.2186E-02	3.5905E+00	1.5921E-01
2.400	5.6815E+00	3.3918E-01	7.8970E-01	6.7406E-02	3.8175E+00	1.6965E-01
2.700	5.6919E+00	3.6331E-01	7.9466E-01	7.8979E-02	4.2354E+00	1.8908E-01
3.000	5.7018E+00	3.8998E-01	7.9945E-01	9.1775E-02	4.6093E+00	2.0676E-01
3.300	5.7115E+00	4.1863E-01	8.0407E-01	1.0552E-01	4.9440E+00	2.2291E-01
3.600	5.7208E+00	4.4879E-01	8.0853E-01	1.1999E-01	5.2436E+00	2.3770E-01
3.900	5.7297E+00	4.8004E-01	8.1284E-01	1.3498E-01	5.5117E+00	2.5131E-01
4.000	5.7327E+00	4.9064E-01	8.1424E-01	1.4007E-01	5.5947E+00	2.5561E-01
4.300	5.7413E+00	5.2285E-01	8.1836E-01	1.5552E-01	5.8261E+00	2.6783E-01
4.600	5.7496E+00	5.5545E-01	8.2234E-01	1.7116E-01	6.0333E+00	2.7916E-01
4.900	5.7576E+00	5.8822E-01	8.2619E-01	1.8688E-01	6.2189E+00	2.8969E-01
5.200	5.7653E+00	6.2098E-01	8.2992E-01	2.0259E-01	6.3851E+00	2.9949E-01
5.500	5.7729E+00	6.5357E-01	8.3352E-01	2.1823E-01	6.5340E+00	3.0864E-01
5.800	5.7801E+00	6.8589E-01	8.3701E-01	2.3373E-01	6.6673E+00	3.1721E-01
6.000	5.7849E+00	7.0722E-01	8.3928E-01	2.4396E-01	6.7484E+00	3.2262E-01
6.300	5.7918E+00	7.3884E-01	8.4259E-01	2.5913E-01	6.8595E+00	3.3033E-01
6.600	5.7985E+00	7.6995E-01	8.4580E-01	2.7406E-01	6.9590E+00	3.3758E-01
6.900	5.8050E+00	8.0050E-01	8.4892E-01	2.8871E-01	7.0482E+00	3.4442E-01
7.200	5.8112E+00	8.3044E-01	8.5194E-01	3.0308E-01	7.1282E+00	3.5087E-01
7.500	5.8174E+00	8.5975E-01	8.5487E-01	3.1714E-01	7.1999E+00	3.5697E-01
7.800	5.8233E+00	8.8841E-01	8.5771E-01	3.3089E-01	7.2641E+00	3.6274E-01
8.000	5.8272E+00	9.0714E-01	8.5957E-01	3.3987E-01	7.3033E+00	3.6642E-01
8.300	5.8328E+00	9.3468E-01	8.5962E-01	3.4038E-01	7.3569E+00	3.7163E-01
8.600	5.8383E+00	9.6155E-01	8.5967E-01	3.4086E-01	7.4049E+00	3.7641E-01
8.900	5.8436E+00	9.8774E-01	8.5972E-01	3.4134E-01	7.4479E+00	3.8078E-01
9.200	5.8488E+00	1.0133E+00	8.5977E-01	3.4180E-01	7.4865E+00	3.8477E-01
9.500	5.8539E+00	1.0381E+00	8.5982E-01	3.4226E-01	7.5210E+00	3.8842E-01
9.800	5.8588E+00	1.0623E+00	8.5986E-01	3.4270E-01	7.5520E+00	3.9176E-01
10.100	5.8636E+00	1.0859E+00	8.5991E-01	3.4313E-01	7.5798E+00	3.9482E-01
10.400	5.8683E+00	1.1089E+00	8.5995E-01	3.4354E-01	7.6047E+00	3.9764E-01
16.000	5.9387E+00	1.4539E+00	8.6061E-01	3.4982E-01	7.7947E+00	4.2821E-01
24.000	6.0077E+00	1.7690E+00	8.6126E-01	3.5555E-01	7.8260E+00	4.4601E-01
48.000	6.1045E+00	2.1347E+00	8.6176E-01	3.5839E-01	7.8302E+00	4.5370E-01
96.000	6.2153E+00	2.4801E+00	8.6233E-01	3.6107E-01	7.8334E+00	4.5932E-01
240.000	6.4340E+00	3.0624E+00	8.6270E-01	3.6257E-01	7.8365E+00	4.6402E-01
480.000	6.6083E+00	3.4011E+00	8.6300E-01	3.6343E-01	7.8389E+00	4.6676E-01
720.000	6.6774E+00	3.4911E+00	8.6311E-01	3.6366E-01	7.8398E+00	4.6752E-01

Worst Two-Hour Doses

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#####

EAB

Time	Whole Body	Thyroid	TEDE
(hr)	(rem)	(rem)	(rem)
0.0	6.9966E-02	5.6672E+00	3.1220E-01

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Attachment 13.3 - RADTRAD Output File "NMP2ES200.o0"

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:46:22
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2ES200.psf
Inventory file  = c:\radtrad3.03\nmp2\nmp2.nif
Release file    = C:\radtrad3.03\NMP2\BWR_I.RFT
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Post-LOCA ESF Leakage - CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
4
Compartment 1:
Pool
3
1.4500E+05
0
0
0
0
0
Compartment 2:
RB
3
1.9400E+06
0
0
0
0
0
0
Compartment 3:
Environment
2
0.0000E+00
0
0
0
0
0
0
Compartment 4:
CR
1
3.8100E+05
0
0
1
0
0
0
Pathways:
6
Pathway 1:
CR Filtered Intake
3
```

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```

4
2
Pathway 2:
CR Unfiltered Inleakage
3
4
2
Pathway 3:
CR Exhaust to Environment
4
3
2
Pathway 4:
RB Drawdown Release to Environment
2
3
2
Pathway 5:
RB Exhaust to Environment
2
3
2
Pathway 6:
ESF leakage to RB
1
2
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
C:\radtrad3.03\NMP2\BWR_I.RFT
0.0000E+00
1
0.0000E+00 9.7000E-01 3.0000E-02 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
4
Compartment 1:
0
1
0
0
0
0
0
0
0
0
Compartment 2:
1
1
0
0
0
0
0
0
0
0
Compartment 3:
1
1
0
0
0
0
0
0
0

```

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0
Compartment 4:

1

1

0

0

0

1

6.7500E+02

3

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------

1.6700E-02	9.9000E+01	9.9000E+01	9.9000E+01
------------	------------	------------	------------

7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------

0

0

Pathways:

6

Pathway 1:

0

0

0

0

0

1

3

0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
------------	------------	------------	------------	------------

7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

0

0

0

0

0

Pathway 2:

0

0

0

0

0

1

8

0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

4.8000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

2.4000E+02	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

4.8000E+02	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

0

0

0

0

0

Pathway 3:

0

0

0

0

0

1

3

0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
------------	------------	------------	------------	------------

1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
------------	------------	------------	------------	------------

7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

0

0

0

0

0

Pathway 4:

0

0

0

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```

0
0
1
2
0.0000E+00  2.6700E+03  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  4.4000E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
1
2
0.0000E+00  8.2900E+00  0.0000E+00  9.0000E+01  9.0000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
3
1
3
0.0000E+00  1.1900E-04
1.0000E+00  2.9600E-05
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
3
1
6
0.0000E+00  1.6200E-05
1.0000E+00  1.4200E-05
8.0000E+00  5.4100E-07
2.4000E+01  2.3100E-07
9.6000E+01  7.6500E-08
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0

```

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Location 3:

CR

4

0

1

2

0.0000E+00 3.5000E-04

7.2000E+02 3.5000E-04

1

4

0.0000E+00 1.0000E+00

2.4000E+01 6.0000E-01

9.6000E+01 4.0000E-01

7.2000E+02 0.0000E+00

Effective Volume Location:

1

7

0.0000E+00 1.4700E-03

1.0000E+00 8.0300E-05

2.0000E+00 4.4800E-05

8.0000E+00 1.6800E-05

2.4000E+01 1.2000E-05

9.6000E+01 8.8300E-06

7.2000E+02 0.0000E+00

Simulation Parameters:

7

0.0000E+00 1.0000E-02

1.0000E+00 1.0000E-01

2.0000E+00 5.0000E-01

8.0000E+00 1.0000E+00

2.4000E+01 2.0000E+00

9.6000E+01 5.0000E+00

7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o547

1

1

1

0

0

End of Scenario File

CALCULATION NO. H21C-106

REV. No. 4

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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:46:22
#####
```

```
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 4

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: Pool

Compartment volume = 1.4500E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 1

Exit Pathway Number 6: ESF leakage to RB

Compartment number 2

Name: RB

Compartment volume = 1.9400E+06 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 6: ESF leakage to RB

Exit Pathway Number 4: RB Drawdown Release to Environment

Exit Pathway Number 5: RB Exhaust to Environment

Compartment number 3

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 3

Inlet Pathway Number 3: CR Exhaust to Environment

Inlet Pathway Number 4: RB Drawdown Release to Environment

Inlet Pathway Number 5: RB Exhaust to Environment

Exit Pathway Number 1: CR Filtered Intake

Exit Pathway Number 2: CR Unfiltered Inleakage

Compartment number 4

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 4

Inlet Pathway Number 1: CR Filtered Intake

Inlet Pathway Number 2: CR Unfiltered Inleakage

Exit Pathway Number 3: CR Exhaust to Environment

Total number of pathways = 6

CALCULATION NO. H21C-106

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:46:22
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
TELLURIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
STRONTIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
BARIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
RUTHENIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
CERIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
LANTHANUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

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Iodine fractions

Aerosol = 0.0000E+00
 Elemental = 9.7000E-01
 Organic = 3.0000E-02

COMPARTMENT DATA

Compartment number 1: Pool

Compartment number 2: RB

Compartment number 3: Environment

Compartment number 4: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 2: CR Unfiltered Inleakage

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.8000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+02	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.8000E+02	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 3: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: RB Drawdown Release to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	4.4000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 6: ESF leakage to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.2900E+00	0.0000E+00	9.0000E+01	9.0000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 3

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 3

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
1.0000E+00	1.4200E-05
8.0000E+00	5.4100E-07
2.4000E+01	2.3100E-07
9.6000E+01	7.6500E-08
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:46:22
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6236E-08	1.5457E-05	5.6519E-07	
Accumulated dose (rem)	7.6236E-08	1.5457E-05	5.6519E-07	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0378E-08	2.1043E-06	7.6941E-08	
Accumulated dose (rem)	1.0378E-08	2.1043E-06	7.6941E-08	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8862E-11	1.5102E-07	4.8260E-09	
Accumulated dose (rem)	4.8862E-11	1.5102E-07	4.8260E-09	

RB Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
I-131	5.2887E-01	4.2660E-09	1.9611E+16	6.9679E+11	
I-132	7.6670E-01	7.4278E-11	3.3887E+14	1.0118E+12	
I-133	1.0961E+00	9.6758E-10	4.3811E+15	1.4443E+12	
I-134	1.2416E+00	4.6542E-11	2.0917E+14	1.6434E+12	
I-135	1.0346E+00	2.9460E-10	1.3142E+15	1.3639E+12	
Xe-133	3.1420E-04	1.6786E-12	7.6006E+12	2.4961E+08	
Xe-133m	2.2093E-05	5.0183E-14	2.2722E+11	1.7552E+07	
Xe-135	3.6104E-03	1.4138E-12	6.3066E+12	2.8610E+09	
Xe-135m	2.2289E-02	2.4484E-13	1.0922E+12	1.7827E+10	

RB Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	1.5227E+13	0.0000E+00	
Elemental I (atoms)	2.5079E+16	0.0000E+00	
Organic I (atoms)	7.7563E+14	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3599E-11	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.7416E-11	
Total I (Ci)		4.6678E+00	

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway
Time (h) =	0.0167
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 4.0503E+09
Organic I (atoms)	0.0000E+00 1.1532E+13
Aerosols (kg)	0.0000E+00 3.5665E+11
	0.0000E+00 0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway
Time (h) =	0.0167
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2427E+13
Elemental I (atoms)	2.2586E+17	2.5096E+16
Organic I (atoms)	6.9855E+15	7.7617E+14
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 0.0167	Ci	kg	Atoms	Bq
I-131	2.4314E-04	1.9612E-12	9.0158E+12	8.9963E+06
I-132	3.5254E-04	3.4154E-14	1.5582E+11	1.3044E+07
I-133	5.0393E-04	4.4485E-13	2.0143E+12	1.8646E+07
I-134	5.7145E-04	2.1421E-14	9.6271E+10	2.1144E+07
I-135	4.7572E-04	1.3546E-13	6.0427E+11	1.7601E+07
Xe-133	1.0285E-07	5.4948E-16	2.4880E+09	3.8055E+03
Xe-133m	7.2320E-09	1.6427E-17	7.4380E+07	2.6759E+02
Xe-135	1.1817E-06	4.6272E-16	2.0641E+09	4.3722E+04
Xe-135m	7.3027E-06	8.0220E-17	3.5785E+08	2.7020E+05

Environment Transport Group Inventory:

Time (h) = 0.0167	Total Release	Rate/s
Noble gases (atoms)	4.9844E+09	8.2907E+07
Elemental I (atoms)	1.1530E+13	1.9178E+11
Organic I (atoms)	3.5659E+11	5.9314E+09
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		3.4346E-04
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		4.3988E-04
Total I (Ci)		2.1468E-03

CR Filtered Intake Transport Group Inventory:

Time (h) = 0.0167	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1074E+06
Elemental I (atoms)	0.0000E+00	6.0003E+09
Organic I (atoms)	0.0000E+00	1.8558E+08
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) = 0.0167	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.0248E+05
Elemental I (atoms)	0.0000E+00	2.0001E+09
Organic I (atoms)	0.0000E+00	6.1859E+07
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) = 0.0167	Pathway	
	Filtered	Transported
Noble gases (atoms)	1.2959E+03	0.0000E+00
Elemental I (atoms)	5.4435E+06	0.0000E+00
Organic I (atoms)	1.6836E+05	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

Time (h) = 0.0167	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0503E+09
Elemental I (atoms)	0.0000E+00	1.1532E+13
Organic I (atoms)	0.0000E+00	3.5665E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

Time (h) = 0.0167	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
I-131		1.6857E-07	1.3597E-15	6.2507E+09	1.9332E+05
I-132		2.4431E-07	2.3669E-17	1.0798E+08	2.8059E+05
I-133		3.4936E-07	3.0840E-16	1.3964E+09	4.0071E+05
I-134		3.9574E-07	1.4835E-17	6.6669E+07	4.5566E+05
I-135		3.2977E-07	9.3901E-17	4.1888E+08	3.7837E+05
Xe-133		7.4010E-11	3.9539E-19	1.7903E+06	5.5990E+01
Xe-133m		5.2040E-12	1.1820E-20	5.3522E+04	3.9370E+00
Xe-135		8.5035E-10	3.3299E-19	1.4854E+06	6.4180E+02
Xe-135m		5.2519E-09	5.7693E-20	2.5736E+05	3.9966E+03

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		3.5866E+06	0.0000E+00
Elemental I (atoms)		7.9935E+09	0.0000E+00
Organic I (atoms)		2.4722E+08	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.2071E-17
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.8266E-17
Total I (Ci)			1.4878E-06

Time (h) =	0.0167	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

Time (h) =	0.0167	Pathway
		Filtered Transported
Noble gases (atoms)		0.0000E+00 2.1074E+06
Elemental I (atoms)		0.0000E+00 6.0003E+09
Organic I (atoms)		0.0000E+00 1.8558E+08
Aerosols (kg)		0.0000E+00 0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) =	0.0167	Pathway
		Filtered Transported
Noble gases (atoms)		0.0000E+00 7.0248E+05
Elemental I (atoms)		0.0000E+00 2.0001E+09
Organic I (atoms)		0.0000E+00 6.1859E+07
Aerosols (kg)		0.0000E+00 0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) =	0.0167	Pathway
		Filtered Transported
Noble gases (atoms)		1.2959E+03 0.0000E+00
Elemental I (atoms)		5.4435E+06 0.0000E+00
Organic I (atoms)		1.6836E+05 0.0000E+00
Aerosols (kg)		0.0000E+00 0.0000E+00

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.8012E-03	4.0805E-01	1.4683E-02
Accumulated dose (rem)		1.8012E-03	4.0806E-01	1.4684E-02

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.4520E-04	5.5549E-02	1.9989E-03
Accumulated dose (rem)		2.4521E-04	5.5551E-02	1.9990E-03

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.8865E-06	2.5300E-02	8.0646E-04
Accumulated dose (rem)		7.8866E-06	2.5300E-02	8.0647E-04

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RB Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
I-131		4.6681E+02	3.7654E-06	1.7310E+19	1.0718E+16
I-132		6.1458E+02	5.9540E-08	2.7164E+17	1.4478E+16
I-133		9.5358E+02	8.4179E-07	3.8115E+18	2.1977E+16
I-134		7.4908E+02	2.8080E-08	1.2620E+17	1.9058E+16
I-135		8.6951E+02	2.4759E-07	1.1045E+18	2.0222E+16
Xe-133		9.4394E+00	5.0429E-08	2.2834E+17	1.6303E+14
Xe-133m		6.6252E-01	1.5049E-09	6.8139E+15	1.1447E+13
Xe-135		1.1281E+02	4.4175E-08	1.9706E+17	1.9363E+15
Xe-135m		3.6757E+02	4.0378E-09	1.8012E+16	7.2135E+15

RB Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)		4.5022E+17	0.0000E+00
Elemental I (atoms)		2.1945E+19	0.0000E+00
Organic I (atoms)		6.7871E+17	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1925E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.5090E-08
Total I (Ci)			3.6536E+03

RB Drawdown Release to Environment Transport Group Inventory:

Time (h) =	0.5000	Pathway	
		Filtered	Transported
Noble gases (atoms)		0.0000E+00	4.6685E+15
Elemental I (atoms)		0.0000E+00	3.0392E+17
Organic I (atoms)		0.0000E+00	9.3997E+15
Aerosols (kg)		0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

Time (h) =	0.5000	Pathway	
		Filtered	Transported
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

Time (h) =	0.5000	Pathway	
		Filtered	Transported
Noble gases (atoms)		0.0000E+00	4.1486E+17
Elemental I (atoms)		2.0099E+20	2.2333E+19
Organic I (atoms)		6.2163E+18	6.9070E+17
Aerosols (kg)		0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) =	0.5000	Ci	kg	Atoms	Bq
I-131		6.4503E+00	5.2029E-08	2.3918E+17	2.3866E+11
I-132		8.6938E+00	8.4225E-10	3.8425E+15	3.2167E+11
I-133		1.3224E+01	1.1674E-08	5.2857E+16	4.8929E+11
I-134		1.1413E+01	4.2783E-10	1.9227E+15	4.2229E+11
I-135		1.2163E+01	3.4634E-09	1.5450E+16	4.5002E+11
Xe-133		9.8240E-02	5.2484E-10	2.3764E+15	3.6349E+09
Xe-133m		6.8976E-03	1.5667E-11	7.0940E+13	2.5521E+08
Xe-135		1.1699E+00	4.5810E-10	2.0435E+15	4.3285E+10
Xe-135m		4.2792E+00	4.7007E-11	2.0969E+14	1.5833E+11

Environment Transport Group Inventory:

Time (h) =	0.5000	Total Release	Release Rate/s
Noble gases (atoms)		4.7006E+15	2.6114E+12
Elemental I (atoms)		3.0386E+17	1.6881E+14
Organic I (atoms)		9.3976E+15	5.2209E+12
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)			9.0668E+00
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			1.1505E+01
Total I (Ci)			5.1944E+01

CR Filtered Intake Transport Group Inventory:

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Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	4.3724E+12
Elemental I (atoms)	2.8179E+14	2.8179E+14	2.8524E+12
Organic I (atoms)	8.7152E+12	8.7152E+12	8.8218E+10
Aerosols (kg)	0.0000E+00	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	8.0970E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00	5.2713E+13
Organic I (atoms)	0.0000E+00	0.0000E+00	1.6303E+12
Aerosols (kg)	0.0000E+00	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	1.2988E+11	0.0000E+00	0.0000E+00
Elemental I (atoms)	1.6923E+12	0.0000E+00	0.0000E+00
Organic I (atoms)	5.2339E+10	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	4.6685E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00	3.0392E+17
Organic I (atoms)	0.0000E+00	0.0000E+00	9.3997E+15
Aerosols (kg)	0.0000E+00	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
I-131	1.1278E-03	9.0974E-12	4.1821E+13	1.9756E+10	
I-132	1.4669E-03	1.4211E-13	6.4834E+11	2.6297E+10	
I-133	2.3040E-03	2.0338E-12	9.2091E+12	4.0481E+10	
I-134	1.8099E-03	6.7844E-14	3.0490E+11	3.4426E+10	
I-135	2.1008E-03	5.9821E-13	2.6685E+12	3.7183E+10	
Xe-133	1.0712E-04	5.7228E-13	2.5913E+12	1.5063E+09	
Xe-133m	7.5156E-06	1.7071E-14	7.7297E+10	1.0572E+08	
Xe-135	1.2955E-03	5.0731E-13	2.2630E+12	1.8104E+10	
Xe-135m	3.6387E-03	3.9971E-14	1.7831E+11	5.8476E+10	

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump	
Noble gases (atoms)	5.1099E+12	0.0000E+00		
Elemental I (atoms)	5.3012E+13	0.0000E+00		
Organic I (atoms)	1.6396E+12	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.4670E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.8559E-13	
Total I (Ci)			8.8094E-03	

Deposition Recirculating

Time (h) =	0.5000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.0680E+11	
Organic I (atoms)	0.0000E+00	2.1860E+10	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Filtered Intake Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	4.3724E+12
Elemental I (atoms)	2.8179E+14	2.8179E+14	2.8524E+12

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Organic I (atoms)	8.7152E+12	8.8218E+10
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.0970E+11
Elemental I (atoms)	0.0000E+00	5.2713E+13
Organic I (atoms)	0.0000E+00	1.6303E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	1.2988E+11	0.0000E+00
Elemental I (atoms)	1.6923E+12	0.0000E+00
Organic I (atoms)	5.2339E+10	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1939E-02	3.0721E+00	1.0874E-01
Accumulated dose (rem)	1.3741E-02	3.4801E+00	1.2342E-01

LPZ Doses:

Time (h) = 1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6253E-03	4.1821E-01	1.4803E-02
Accumulated dose (rem)	1.8706E-03	4.7376E-01	1.6802E-02

CR Doses:

Time (h) = 1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0696E-04	3.7635E-01	1.1963E-02
Accumulated dose (rem)	1.1485E-04	4.0165E-01	1.2770E-02

RB Compartment Nuclide Inventory:

Time (h) = 1.0000	Ci	kg	Atoms	Decay
I-131	2.1485E+03	1.7330E-05	7.9669E+19	9.0614E+16
I-132	2.6027E+03	2.5214E-07	1.1503E+18	1.1446E+17
I-133	4.3236E+03	3.8167E-06	1.7282E+19	1.8368E+17
I-134	2.3258E+03	8.7184E-08	3.9181E+17	1.2016E+17
I-135	3.8039E+03	1.0832E-06	4.8318E+18	1.6446E+17
Xe-133	8.0025E+01	4.2753E-07	1.9358E+18	2.6283E+15
Xe-133m	5.6071E+00	1.2736E-08	5.7668E+16	1.8428E+14
Xe-135	9.5392E+02	3.7354E-07	1.6663E+18	3.1373E+16
Xe-135m	1.9251E+03	2.1147E-08	9.4333E+16	7.7223E+16

RB Transport Group Inventory:

Time (h) = 1.0000	Atmosphere	Sump
Noble gases (atoms)	3.7541E+18	0.0000E+00
Elemental I (atoms)	1.0022E+20	0.0000E+00
Organic I (atoms)	3.0997E+18	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.4541E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.8339E-08
Total I (Ci)		1.5205E+04

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5162E+18
Elemental I (atoms)	9.3120E+20	1.0347E+20
Organic I (atoms)	2.8800E+19	3.2000E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 1.0000	Ci	kg	Atoms	Bq
I-131	5.5284E+01	4.4593E-07	2.0500E+18	2.0455E+12
I-132	6.9669E+01	6.7495E-09	3.0793E+16	2.5778E+12
I-133	1.1205E+02	9.8909E-08	4.4785E+17	4.1457E+12
I-134	7.2951E+01	2.7346E-09	1.2290E+16	2.6992E+12
I-135	1.0028E+02	2.8553E-08	1.2737E+17	3.7102E+12
Xe-133	1.6053E+00	8.5763E-09	3.8833E+16	5.9397E+10
Xe-133m	1.1255E-01	2.5565E-10	1.1576E+15	4.1644E+09
Xe-135	1.9193E+01	7.5156E-09	3.3526E+16	7.1013E+11
Xe-135m	4.6431E+01	5.1005E-10	2.2752E+15	1.7180E+12

Environment Transport Group Inventory:

Time (h) = 1.0000	Total Release	Rate/s
Noble gases (atoms)	7.5791E+16	2.1053E+13
Elemental I (atoms)	2.5882E+18	7.1895E+14
Organic I (atoms)	8.0048E+16	2.2236E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		7.7325E+01
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		9.7332E+01
Total I (Ci)		4.1022E+02

CR Filtered Intake Transport Group Inventory:

Time (h) = 1.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.0746E+13
Elemental I (atoms)	2.4003E+15	2.4252E+13
Organic I (atoms)	7.4237E+13	7.5005E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) = 1.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3101E+13
Elemental I (atoms)	0.0000E+00	4.4900E+14
Organic I (atoms)	0.0000E+00	1.3886E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) = 1.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	4.0453E+12	0.0000E+00
Elemental I (atoms)	2.6837E+13	0.0000E+00
Organic I (atoms)	8.3002E+11	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

Time (h) = 1.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

Time (h) = 1.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
I-131		9.2852E-03	7.4896E-11	3.4430E+14	3.0949E+11
I-132		1.0920E-02	1.0580E-12	4.8266E+12	3.7898E+11
I-133		1.8686E-02	1.6495E-11	7.4690E+13	6.2657E+11
I-134		1.0052E-02	3.7679E-13	1.6934E+12	3.9553E+11
I-135		1.6440E-02	4.6813E-12	2.0882E+13	5.5926E+11
Xe-133		1.7130E-03	9.1515E-12	4.1437E+13	4.6451E+10
Xe-133m		1.1993E-04	2.7240E-13	1.2334E+12	3.2544E+09
Xe-135		2.0717E-02	8.1124E-12	3.6188E+13	5.6239E+11
Xe-135m		3.0873E-02	3.3914E-13	1.5129E+12	1.0480E+12

CR Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)		8.0372E+13	0.0000E+00
Elemental I (atoms)		4.3300E+14	0.0000E+00
Organic I (atoms)		1.3392E+13	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.2000E-12
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.5027E-12
Total I (Ci)			6.5383E-02

Time (h) =	1.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	1.1209E+13
Organic I (atoms)		0.0000E+00	3.4666E+11
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

Time (h) =	1.0000	Pathway Filtered	Transported
Noble gases (atoms)		0.0000E+00	7.0746E+13
Elemental I (atoms)		2.4003E+15	2.4252E+13
Organic I (atoms)		7.4237E+13	7.5005E+11
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) =	1.0000	Pathway Filtered	Transported
Noble gases (atoms)		0.0000E+00	1.3101E+13
Elemental I (atoms)		0.0000E+00	4.4900E+14
Organic I (atoms)		0.0000E+00	1.3886E+13
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) =	1.0000	Pathway Filtered	Transported
Noble gases (atoms)		4.0453E+12	0.0000E+00
Elemental I (atoms)		2.6837E+13	0.0000E+00
Organic I (atoms)		8.3002E+11	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.5541E-03	1.1430E-01	6.1462E-03
Accumulated dose (rem)		1.6295E-02	3.5944E+00	1.2957E-01

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2253E-03	5.4831E-02	2.9485E-03
Accumulated dose (rem)		3.0958E-03	5.2859E-01	1.9750E-02

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.3972E-04	1.3690E+00	4.3369E-02
Accumulated dose (rem)		4.5457E-04	1.7707E+00	5.6138E-02

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RB Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
I-131		9.5518E+03	7.7047E-05	3.5419E+20	8.6213E+17
I-132		9.6496E+03	9.3484E-07	4.2649E+18	9.5773E+17
I-133		1.8655E+04	1.6468E-05	7.4565E+19	1.7082E+18
I-134		4.7055E+03	1.7639E-07	7.9271E+17	6.4938E+17
I-135		1.5279E+04	4.3508E-06	1.9408E+19	1.4490E+18
Xe-133		6.8758E+02	3.6733E-06	1.6632E+19	4.7598E+16
Xe-133m		4.8014E+01	1.0906E-07	4.9381E+17	3.3285E+15
Xe-135		7.8647E+03	3.0797E-06	1.3738E+19	5.5091E+17
Xe-135m		7.8887E+03	8.6658E-08	3.8657E+17	7.6917E+17

RB Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)		3.1251E+19	0.0000E+00
Elemental I (atoms)		4.3962E+20	0.0000E+00
Organic I (atoms)		1.3597E+19	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			2.3959E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.9558E-07
Total I (Ci)			5.7841E+04

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9435E+18
Elemental I (atoms)	3.3786E+19	3.4127E+17
Organic I (atoms)	1.0449E+18	1.0555E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0718E+19
Elemental I (atoms)	4.3362E+21	4.8179E+20
Organic I (atoms)	1.3411E+20	1.4901E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) =	2.0000	Ci	kg	Atoms	Bq
I-131		6.2654E+01	5.0538E-07	2.3232E+18	2.3182E+12
I-132		7.7555E+01	7.5135E-09	3.4278E+16	2.8695E+12
I-133		1.2658E+02	1.1174E-07	5.0597E+17	4.6836E+12
I-134		7.7796E+01	2.9162E-09	1.3106E+16	2.8784E+12
I-135		1.1248E+02	3.2028E-08	1.4287E+17	4.1617E+12
Xe-133		4.3826E+01	2.3413E-07	1.0601E+18	1.6215E+12
Xe-133m		3.0629E+00	6.9571E-09	3.1501E+16	1.1333E+11
Xe-135		5.1096E+02	2.0008E-07	8.9254E+17	1.8906E+13
Xe-135m		5.7857E+02	6.3556E-09	2.8351E+16	2.1407E+13

Environment Transport Group Inventory:

	Total	Release
Time (h) =	2.0000	Rate/s
Noble gases (atoms)	2.0125E+18	2.7952E+14
Elemental I (atoms)	2.9289E+18	4.0679E+14
Organic I (atoms)	9.0584E+16	1.2581E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		8.7520E+01
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.0997E+02
Total I (Ci)		4.5707E+02

CR Filtered Intake Transport Group Inventory:

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Time (h) =	2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7018E+14	
Elemental I (atoms)	2.4176E+15	2.4426E+13	
Organic I (atoms)	7.4771E+13	7.5545E+11	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway		
Time (h) =	2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1515E+13	
Elemental I (atoms)	0.0000E+00	4.5223E+14	
Organic I (atoms)	0.0000E+00	1.3986E+13	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	2.0000	Filtered	Transported
Noble gases (atoms)	3.1510E+13	0.0000E+00	
Elemental I (atoms)	1.1817E+14	0.0000E+00	
Organic I (atoms)	3.6547E+12	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway		
Time (h) =	2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16	
Elemental I (atoms)	0.0000E+00	2.5888E+18	
Organic I (atoms)	0.0000E+00	8.0065E+16	
Aerosols (kg)	0.0000E+00	0.0000E+00	

RB Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9435E+18	
Elemental I (atoms)	3.3786E+19	3.4127E+17	
Organic I (atoms)	1.0449E+18	1.0555E+16	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
I-131	6.5372E-03	5.2730E-11	2.4240E+14	1.3332E+12	
I-132	5.7147E-03	5.5363E-13	2.5258E+12	1.4295E+12	
I-133	1.2771E-02	1.1273E-11	5.1045E+13	2.6581E+12	
I-134	3.2212E-03	1.2075E-13	5.4267E+11	1.1800E+12	
I-135	1.0460E-02	2.9784E-12	1.3286E+13	2.2880E+12	
Xe-133	3.7475E-03	2.0021E-11	9.0653E+13	3.7455E+11	
Xe-133m	2.6098E-04	5.9278E-13	2.6841E+12	2.6150E+10	
Xe-135	4.3527E-02	1.7045E-11	7.6033E+13	4.4504E+12	
Xe-135m	1.8547E-02	2.0374E-13	9.0885E+11	3.7251E+12	

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump	
Noble gases (atoms)	1.7028E+14	0.0000E+00		
Elemental I (atoms)	3.0051E+14	0.0000E+00		
Organic I (atoms)	9.2941E+12	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		8.3448E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0272E-12	
Total I (Ci)			3.8703E-02	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.9354E+13
Organic I (atoms)	0.0000E+00	1.5264E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway		
Time (h) =	2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7018E+14	
Elemental I (atoms)	2.4176E+15	2.4426E+13	

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Organic I (atoms)	7.4771E+13	7.5545E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1515E+13
Elemental I (atoms)	0.0000E+00	4.5223E+14
Organic I (atoms)	0.0000E+00	1.3986E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	3.1510E+13	0.0000E+00
Elemental I (atoms)	1.1817E+14	0.0000E+00
Organic I (atoms)	3.6547E+12	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8963E-02	7.7035E-01	4.3078E-02
Accumulated dose (rem)	3.5258E-02	4.3648E+00	1.7264E-01

LPZ Doses:

Time (h) = 4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0972E-03	3.6956E-01	2.0666E-02
Accumulated dose (rem)	1.2193E-02	8.9815E-01	4.0416E-02

CR Doses:

Time (h) = 4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1833E-04	1.6370E+00	5.1767E-02
Accumulated dose (rem)	9.7290E-04	3.4077E+00	1.0791E-01

RB Compartment Nuclide Inventory:

Time (h) = 4.0000	Ci	kg	Atoms	Decay
I-131	2.6752E+04	2.1579E-04	9.9198E+20	5.9265E+18
I-132	1.5948E+04	1.5450E-06	7.0486E+18	4.8334E+18
I-133	4.9225E+04	4.3454E-05	1.9676E+20	1.1267E+19
I-134	2.7301E+03	1.0234E-07	4.5993E+17	1.7630E+18
I-135	3.4943E+04	9.9499E-06	4.4385E+19	8.6708E+18
Xe-133	4.7976E+03	2.5631E-05	1.1605E+20	7.2043E+17
Xe-133m	3.3225E+02	7.5467E-07	3.4171E+18	5.0078E+16
Xe-135	4.8616E+04	1.9037E-05	8.4922E+19	7.6810E+18
Xe-135m	1.3587E+04	1.4926E-07	6.6582E+17	4.1217E+18

RB Transport Group Inventory:

Time (h) = 4.0000	Atmosphere	Sump
Noble gases (atoms)	2.0506E+20	0.0000E+00
Elemental I (atoms)	1.2034E+21	0.0000E+00
Organic I (atoms)	3.7219E+19	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.5632E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.9072E-07
Total I (Ci)		1.2960E+05

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0913E+19
Elemental I (atoms)	2.6124E+20	2.6388E+18
Organic I (atoms)	8.0796E+18	8.1612E+16

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Aerosols (kg) 0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2455E+20
Elemental I (atoms)	1.3512E+22	1.5014E+21
Organic I (atoms)	4.1790E+20	4.6434E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 4.0000	Ci	kg	Atoms	Bq
I-131	1.1321E+02	9.1315E-07	4.1978E+18	4.1887E+12
I-132	1.1556E+02	1.1196E-08	5.1078E+16	4.2759E+12
I-133	2.2185E+02	1.9584E-07	8.8675E+17	8.2085E+12
I-134	8.8438E+01	3.3152E-09	1.4899E+16	3.2722E+12
I-135	1.8417E+02	5.2443E-08	2.3394E+17	6.8143E+12
Xe-133	7.0564E+02	3.7698E-06	1.7069E+19	2.6109E+13
Xe-133m	4.9021E+01	1.1135E-07	5.0417E+17	1.8138E+12
Xe-135	7.5262E+03	2.9472E-06	1.3147E+19	2.7847E+14
Xe-135m	3.2932E+03	3.6175E-08	1.6137E+17	1.2185E+14

Environment Transport Group Inventory:

Time (h) = 4.0000	Total Release	Release Rate/s
Noble gases (atoms)	3.0882E+19	2.1446E+15
Elemental I (atoms)	5.2229E+18	3.6270E+14
Organic I (atoms)	1.6153E+17	1.1218E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		1.5624E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.9350E+02
Total I (Ci)		7.2323E+02

CR Filtered Intake Transport Group Inventory:

Time (h) = 4.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.9707E+14
Elemental I (atoms)	2.4825E+15	2.5082E+13
Organic I (atoms)	7.6779E+13	7.7573E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) = 4.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8464E+14
Elemental I (atoms)	0.0000E+00	4.6437E+14
Organic I (atoms)	0.0000E+00	1.4362E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) = 4.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	2.5180E+14	0.0000E+00
Elemental I (atoms)	2.2722E+14	0.0000E+00
Organic I (atoms)	7.0274E+12	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

Time (h) = 4.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

Time (h) = 4.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0913E+19
Elemental I (atoms)	2.6124E+20	2.6388E+18

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Organic I (atoms)	8.0796E+18	8.1612E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
I-131		3.3886E-03	2.7333E-11	1.2565E+14	2.5790E+12
I-132		1.6555E-03	1.6038E-13	7.3169E+11	2.2800E+12
I-133		6.2374E-03	5.5062E-12	2.4931E+13	5.0285E+12
I-134		3.4594E-04	1.2968E-14	5.8279E+10	1.5151E+12
I-135		4.4277E-03	1.2608E-12	5.6242E+12	4.1123E+12
Xe-133		2.1098E-02	1.1272E-10	5.1037E+14	3.1529E+12
Xe-133m		1.4567E-03	3.3087E-12	1.4982E+13	2.1861E+11
Xe-135		2.1488E-01	8.4144E-11	3.7535E+14	3.4138E+13
Xe-135m		2.0358E-02	2.2363E-13	9.9758E+11	9.2901E+12

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)		9.0171E+14	0.0000E+00
Elemental I (atoms)		1.5229E+14	0.0000E+00
Organic I (atoms)		4.7099E+12	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.2315E-13
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.0884E-13
Total I (Ci)			1.6055E-02

Time (h) =	4.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	9.4899E+13
Organic I (atoms)		0.0000E+00	2.9350E+12
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

Time (h) =	4.0000	Pathway Filtered	Transported
Noble gases (atoms)		0.0000E+00	9.9707E+14
Elemental I (atoms)		2.4825E+15	2.5082E+13
Organic I (atoms)		7.6779E+13	7.7573E+11
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) =	4.0000	Pathway Filtered	Transported
Noble gases (atoms)		0.0000E+00	1.8464E+14
Elemental I (atoms)		0.0000E+00	4.6437E+14
Organic I (atoms)		0.0000E+00	1.4362E+13
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) =	4.0000	Pathway Filtered	Transported
Noble gases (atoms)		2.5180E+14	0.0000E+00
Elemental I (atoms)		2.2722E+14	0.0000E+00
Organic I (atoms)		7.0274E+12	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.7159E-02	3.1318E+00	1.9470E-01
Accumulated dose (rem)		1.3242E-01	7.4966E+00	3.6734E-01

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.6610E-02	1.5024E+00	9.3403E-02
Accumulated dose (rem)		5.8803E-02	2.4006E+00	1.3382E-01

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9516E-03	1.4395E+00	4.7802E-02
Accumulated dose (rem)		3.9244E-03	4.8472E+00	1.5571E-01

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RB Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
I-131		4.8851E+04	3.9404E-04	1.8114E+21	2.6817E+19
I-132		8.9975E+03	8.7167E-07	3.9768E+18	1.1785E+19
I-133		7.9806E+04	7.0450E-05	3.1899E+20	4.7309E+19
I-134		2.1399E+02	8.0217E-09	3.6051E+16	2.3268E+18
I-135		4.2553E+04	1.2117E-05	5.4052E+19	3.0686E+19
Xe-133		2.0650E+04	1.1032E-04	4.9952E+20	7.2696E+18
Xe-133m		1.4030E+03	3.1868E-06	1.4430E+19	4.9846E+17
Xe-135		1.5829E+05	6.1985E-05	2.7651E+20	6.3868E+19
Xe-135m		1.2395E+04	1.3616E-07	6.0738E+17	1.1239E+19

RB Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)		7.9106E+20	0.0000E+00
Elemental I (atoms)		2.1228E+21	0.0000E+00
Organic I (atoms)		6.5654E+19	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1545E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3480E-06
Total I (Ci)			1.8042E+05

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9458E+20
Elemental I (atoms)	1.1869E+21	1.1989E+19
Organic I (atoms)	3.6709E+19	3.7080E+17
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0790E+21
Elemental I (atoms)	3.0957E+22	3.4397E+21
Organic I (atoms)	9.5744E+20	1.0638E+20
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) =	8.0000	Ci	kg	Atoms	Bq
I-131		3.2506E+02	2.6220E-06	1.2053E+19	1.2027E+13
I-132		1.8494E+02	1.7917E-08	8.1742E+16	6.8429E+12
I-133		5.8677E+02	5.1798E-07	2.3454E+18	2.1711E+13
I-134		9.3921E+01	3.5207E-09	1.5823E+16	3.4751E+12
I-135		4.0623E+02	1.1567E-07	5.1600E+17	1.5031E+13
Xe-133		7.2957E+03	3.8977E-05	1.7648E+20	2.6994E+14
Xe-133m		4.9996E+02	1.1356E-06	5.1419E+18	1.8498E+13
Xe-135		6.3907E+04	2.5025E-05	1.1163E+20	2.3646E+15
Xe-135m		9.2331E+03	1.0143E-07	4.5245E+17	3.4162E+14

Environment Transport Group Inventory:

	Total	Release
Time (h) =	8.0000	Release
	Rate/s	
Noble gases (atoms)	2.9371E+20	1.0198E+16
Elemental I (atoms)	1.4562E+19	5.0563E+14
Organic I (atoms)	4.5037E+17	1.5638E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		4.3569E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		5.2397E+02
Total I (Ci)		1.5969E+03

CR Filtered Intake Transport Group Inventory:

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Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.5229E+15	
Elemental I (atoms)	2.7468E+15	2.7751E+13	
Organic I (atoms)	8.4951E+13	8.5828E+11	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway		
Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5783E+15	
Elemental I (atoms)	0.0000E+00	5.1380E+14	
Organic I (atoms)	0.0000E+00	1.5891E+13	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	3.4405E+15	0.0000E+00	
Elemental I (atoms)	3.2321E+14	0.0000E+00	
Organic I (atoms)	9.9961E+12	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway		
Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16	
Elemental I (atoms)	0.0000E+00	2.5888E+18	
Organic I (atoms)	0.0000E+00	8.0065E+16	
Aerosols (kg)	0.0000E+00	0.0000E+00	

RB Exhaust to Environment Transport Group Inventory:

	Pathway		
Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9458E+20	
Elemental I (atoms)	1.1869E+21	1.1989E+19	
Organic I (atoms)	3.6709E+19	3.7080E+17	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
I-131	1.4655E-03	1.1821E-11	5.4342E+13	3.7122E+12	
I-132	2.4089E-04	2.3338E-14	1.0647E+11	2.6416E+12	
I-133	2.3947E-03	2.1139E-12	9.5717E+12	7.0116E+12	
I-134	6.4212E-06	2.4070E-16	1.0817E+09	1.5576E+12	
I-135	1.2769E-03	3.6359E-13	1.6219E+12	5.3648E+12	
Xe-133	1.6248E-01	8.6801E-10	3.9303E+15	4.6430E+13	
Xe-133m	1.0991E-02	2.4964E-11	1.1304E+14	3.1681E+12	
Xe-135	1.2479E+00	4.8867E-10	2.1799E+15	4.0243E+14	
Xe-135m	1.8324E-02	2.0128E-13	8.9790E+11	2.1354E+13	

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump	
Noble gases (atoms)	6.2241E+15	0.0000E+00		
Elemental I (atoms)	6.3674E+13	0.0000E+00		
Organic I (atoms)	1.9693E+12	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.7634E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.0583E-13	
Total I (Ci)			5.3844E-03	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3499E+14
Organic I (atoms)	0.0000E+00	4.1749E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway		
Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.5229E+15	
Elemental I (atoms)	2.7468E+15	2.7751E+13	

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Organic I (atoms)	8.4951E+13	8.5828E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5783E+15
Elemental I (atoms)	0.0000E+00	5.1380E+14
Organic I (atoms)	0.0000E+00	1.5891E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	3.4405E+15	0.0000E+00
Elemental I (atoms)	3.2321E+14	0.0000E+00
Organic I (atoms)	9.9961E+12	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7847E-01	9.1560E+00	6.6205E-01
Accumulated dose (rem)	5.1089E-01	1.6653E+01	1.0294E+00

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9173E-03	8.6063E-02	9.5829E-03
Accumulated dose (rem)	6.5720E-02	2.4866E+00	1.4340E-01

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6750E-03	1.0075E+00	4.0897E-02
Accumulated dose (rem)	1.3599E-02	5.8546E+00	1.9660E-01

RB Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
I-131	6.6355E+04	5.3523E-04	2.4605E+21	9.0723E+19
I-132	1.1350E+03	1.0996E-07	5.0167E+17	1.6028E+19
I-133	8.5454E+04	7.5436E-05	3.4157E+20	1.3967E+20
I-134	5.3560E-01	2.0077E-11	9.0230E+13	2.3662E+18
I-135	2.5709E+04	7.3205E-06	3.2656E+19	6.8067E+19
Xe-133	6.0102E+04	3.2109E-04	1.4539E+21	5.1438E+19
Xe-133m	3.9264E+03	8.9186E-06	4.0383E+19	3.4335E+18
Xe-135	2.6140E+05	1.0236E-04	4.5661E+20	3.0966E+20
Xe-135m	1.3127E+04	1.4420E-07	6.4327E+17	2.1902E+19

RB Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	1.9515E+21	0.0000E+00
Elemental I (atoms)	2.7501E+21	0.0000E+00
Organic I (atoms)	8.5056E+19	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4805E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.6634E-06
Total I (Ci)		1.7865E+05

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8289E+21
Elemental I (atoms)	3.9107E+21	3.9502E+19
Organic I (atoms)	1.2095E+20	1.2217E+18

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Aerosols (kg) 0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9341E+21
Elemental I (atoms)	6.3093E+22	7.0103E+21
Organic I (atoms)	1.9513E+21	2.1681E+20
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 16.0000	Ci	kg	Atoms	Bq
I-131	9.7318E+02	7.8498E-06	3.6086E+19	3.6008E+13
I-132	2.2645E+02	2.1938E-08	1.0009E+17	8.3785E+12
I-133	1.5174E+03	1.3395E-06	6.0654E+18	5.6146E+13
I-134	9.4304E+01	3.5350E-09	1.5887E+16	3.4892E+12
I-135	7.7816E+02	2.2158E-07	9.8844E+17	2.8792E+13
Xe-133	5.1252E+04	2.7381E-04	1.2398E+21	1.8963E+15
Xe-133m	3.4131E+03	7.7525E-06	3.5103E+19	1.2628E+14
Xe-135	3.0512E+05	1.1948E-04	5.3298E+20	1.1289E+16
Xe-135m	1.5445E+04	1.6967E-07	7.5687E+17	5.7148E+14

Environment Transport Group Inventory:

Time (h) = 16.0000	Total Release	Release Rate/s
Noble gases (atoms)	1.8086E+21	3.1400E+16
Elemental I (atoms)	4.1958E+19	7.2844E+14
Organic I (atoms)	1.2977E+18	2.2529E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		1.2497E+03
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.4533E+03
Total I (Ci)		3.5895E+03

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4946E+16
Elemental I (atoms)	3.0383E+15	3.0696E+13
Organic I (atoms)	9.3968E+13	9.4936E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6196E+15
Elemental I (atoms)	0.0000E+00	5.6833E+14
Organic I (atoms)	0.0000E+00	1.7577E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	1.8059E+16	0.0000E+00
Elemental I (atoms)	3.9076E+14	0.0000E+00
Organic I (atoms)	1.2085E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8289E+21
Elemental I (atoms)	3.9107E+21	3.9502E+19

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Organic I (atoms)	1.2095E+20	1.2217E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
I-131	5.5041E-04	4.4397E-12	2.0410E+13	4.5404E+12
I-132	9.2503E-06	8.9616E-16	4.0885E+09	2.7060E+12
I-133	7.0887E-04	6.2576E-13	2.8334E+12	8.2400E+12
I-134	4.4429E-09	1.6655E-19	7.4848E+05	1.5584E+12
I-135	2.1326E-04	6.0726E-14	2.7089E+11	5.8938E+12
Xe-133	2.9463E-01	1.5741E-09	7.1272E+15	2.7323E+14
Xe-133m	1.9093E-02	4.3368E-11	1.9637E+14	1.8144E+13
Xe-135	1.2815E+00	5.0183E-10	2.2386E+15	1.6845E+15
Xe-135m	2.5838E-03	2.8383E-14	1.2661E+11	3.1102E+13

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	9.5623E+15	0.0000E+00
Elemental I (atoms)	2.2812E+13	0.0000E+00
Organic I (atoms)	7.0554E+11	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.2531E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.0256E-14
Total I (Ci)		1.4818E-03

Time (h) = 16.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.6320E+14
Organic I (atoms)	0.0000E+00	5.0475E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

Time (h) = 16.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4946E+16
Elemental I (atoms)	3.0383E+15	3.0696E+13
Organic I (atoms)	9.3968E+13	9.4936E+11
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) = 16.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6196E+15
Elemental I (atoms)	0.0000E+00	5.6833E+14
Organic I (atoms)	0.0000E+00	1.7577E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) = 16.0000	Pathway Filtered	Transported
Noble gases (atoms)	1.8059E+16	0.0000E+00
Elemental I (atoms)	3.9076E+14	0.0000E+00
Organic I (atoms)	1.2085E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3209E-01	1.0044E+01	7.4183E-01
Accumulated dose (rem)	9.4298E-01	2.6697E+01	1.7712E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8974E-03	9.4411E-02	1.0809E-02
Accumulated dose (rem)	7.3618E-02	2.5811E+00	1.5421E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1281E-02	6.5853E-01	3.1589E-02
Accumulated dose (rem)	2.4880E-02	6.5131E+00	2.2819E-01

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RB Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
I-131	6.9329E+04	5.5922E-04	2.5708E+21	1.6401E+20
I-132	1.0965E+02	1.0623E-08	4.8463E+16	1.6503E+19
I-133	7.0384E+04	6.2132E-05	2.8133E+20	2.2362E+20
I-134	1.0311E-03	3.8653E-14	1.7371E+11	2.3663E+18
I-135	1.1947E+04	3.4020E-06	1.5176E+19	8.7481E+19
Xe-133	9.4329E+04	5.0394E-04	2.2818E+21	1.3646E+20
Xe-133m	5.9316E+03	1.3473E-05	6.1005E+19	8.8821E+18
Xe-135	2.3428E+05	9.1739E-05	4.0923E+20	5.8712E+20
Xe-135m	6.0517E+03	6.6479E-08	2.9655E+17	2.9421E+19

RB Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	2.7523E+21	0.0000E+00
Elemental I (atoms)	2.7813E+21	0.0000E+00
Organic I (atoms)	8.6020E+19	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4816E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.6227E-06
Total I (Ci)		1.5177E+05

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4386E+21
Elemental I (atoms)	6.9288E+21	6.9988E+19
Organic I (atoms)	2.1429E+20	2.1646E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.6038E+21
Elemental I (atoms)	9.2357E+22	1.0262E+22
Organic I (atoms)	2.8564E+21	3.1738E+20
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 24.0000	Ci	kg	Atoms	Bq
I-131	1.7173E+03	1.3852E-05	6.3680E+19	6.3541E+13
I-132	2.3058E+02	2.2338E-08	1.0191E+17	8.5314E+12
I-133	2.3570E+03	2.0807E-06	9.4213E+18	8.7211E+13
I-134	9.4304E+01	3.5351E-09	1.5887E+16	3.4893E+12
I-135	9.6538E+02	2.7489E-07	1.2263E+18	3.5719E+13
Xe-133	1.3566E+05	7.2472E-04	3.2815E+21	5.0192E+15
Xe-133m	8.7934E+03	1.9973E-05	9.0438E+19	3.2535E+14
Xe-135	5.7110E+05	2.2364E-04	9.9760E+20	2.1131E+16
Xe-135m	1.6620E+04	1.8257E-07	8.1442E+17	6.1494E+14

Environment Transport Group Inventory:

	Total	Release
Time (h) = 24.0000	Release	Rate/s
Noble gases (atoms)	4.3704E+21	5.0583E+16
Elemental I (atoms)	7.2212E+19	8.3578E+14
Organic I (atoms)	2.2334E+18	2.5849E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		2.1391E+03
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		2.4376E+03
Total I (Ci)		5.3646E+03

CR Filtered Intake Transport Group Inventory:

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Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2879E+16
Elemental I (atoms)	3.3613E+15	3.3959E+13
Organic I (atoms)	1.0396E+14	1.0503E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7924E+15
Elemental I (atoms)	0.0000E+00	6.2876E+14
Organic I (atoms)	0.0000E+00	1.9446E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.3502E+16	0.0000E+00
Elemental I (atoms)	4.3542E+14	0.0000E+00
Organic I (atoms)	1.3467E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4386E+21
Elemental I (atoms)	6.9288E+21	6.9988E+19
Organic I (atoms)	2.1429E+20	2.1646E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
I-131	5.4415E-04	4.3892E-12	2.0177E+13	5.1184E+12
I-132	8.5950E-07	8.3268E-17	3.7989E+08	2.7097E+12
I-133	5.5243E-04	4.8766E-13	2.2081E+12	8.9025E+12
I-135	9.3771E-05	2.6701E-14	1.1911E+11	6.0473E+12
Xe-133	5.2475E-01	2.8034E-09	1.2694E+16	7.2646E+14
Xe-133m	3.2685E-02	7.4242E-11	3.3616E+14	4.6933E+13
Xe-135	1.3006E+00	5.0931E-10	2.2719E+15	3.1543E+15
Xe-135m	1.1664E-03	1.2813E-14	5.7158E+10	4.0276E+13

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	1.5302E+16	0.0000E+00
Elemental I (atoms)	2.1830E+13	0.0000E+00
Organic I (atoms)	6.7515E+11	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.9211E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.4850E-14
Total I (Ci)		1.1912E-03

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.8186E+14
Organic I (atoms)	0.0000E+00	5.6244E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2879E+16
Elemental I (atoms)	3.3613E+15	3.3959E+13
Organic I (atoms)	1.0396E+14	1.0503E+12

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Aerosols (kg) 0.0000E+00 0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7924E+15
Elemental I (atoms)	0.0000E+00	6.2876E+14
Organic I (atoms)	0.0000E+00	1.9446E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.3502E+16	0.0000E+00
Elemental I (atoms)	4.3542E+14	0.0000E+00
Organic I (atoms)	1.3467E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3741E-01	2.7208E+01	1.5724E+00
Accumulated dose (rem)	1.6804E+00	5.3905E+01	3.3436E+00

LPZ Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7548E-03	1.3953E-01	1.0037E-02
Accumulated dose (rem)	7.9372E-02	2.7206E+00	1.6425E-01

CR Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0690E-02	8.0809E-01	3.5491E-02
Accumulated dose (rem)	3.5571E-02	7.3212E+00	2.6368E-01

RB Compartment Nuclide Inventory:

Time (h) = 48.0000	Ci	kg	Atoms	Decay
I-131	6.1404E+04	4.9529E-04	2.2769E+21	3.7488E+20
I-132	7.6521E-02	7.4133E-12	3.3821E+13	1.6551E+19
I-133	3.0539E+04	2.6959E-05	1.2207E+20	3.7782E+20
I-135	9.3109E+02	2.6513E-07	1.1827E+18	1.0143E+20
Xe-133	1.4497E+05	7.7448E-04	3.5068E+21	5.4137E+20
Xe-133m	8.0946E+03	1.8386E-05	8.3251E+19	3.2848E+19
Xe-135	6.5969E+04	2.5833E-05	1.1524E+20	1.0456E+21
Xe-135m	4.6980E+02	5.1608E-09	2.3022E+16	3.4625E+19

RB Transport Group Inventory:

Time (h) = 48.0000	Atmosphere	Sump
Noble gases (atoms)	3.7053E+21	0.0000E+00
Elemental I (atoms)	2.3281E+21	0.0000E+00
Organic I (atoms)	7.2004E+19	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2108E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2678E-06
Total I (Ci)		9.2874E+04

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5468E+22
Elemental I (atoms)	1.5253E+22	1.5407E+20
Organic I (atoms)	4.7174E+20	4.7650E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

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ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0281E+22
Elemental I (atoms)	1.6726E+23	1.8584E+22
Organic I (atoms)	5.1730E+21	5.7478E+20
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 48.0000	Ci	kg	Atoms	Bq
I-131	3.8693E+03	3.1211E-05	1.4348E+20	1.4317E+14
I-132	2.3100E+02	2.2380E-08	1.0210E+17	8.5472E+12
I-133	3.9072E+03	3.4491E-06	1.5617E+19	1.4457E+14
I-134	9.4304E+01	3.5351E-09	1.5887E+16	3.4893E+12
I-135	1.1006E+03	3.1340E-07	1.3980E+18	4.0723E+13
Xe-133	5.4437E+05	2.9082E-03	1.3168E+22	2.0142E+16
Xe-133m	3.2855E+04	7.4626E-05	3.3790E+20	1.2156E+15
Xe-135	1.0170E+06	3.9824E-04	1.7765E+21	3.7629E+16
Xe-135m	1.7445E+04	1.9164E-07	8.5486E+17	6.4547E+14

Environment Transport Group Inventory:

Time (h) = 48.0000	Total Release	Release Rate/s
Noble gases (atoms)	1.5284E+22	8.8447E+16
Elemental I (atoms)	1.5579E+20	9.0157E+14
Organic I (atoms)	4.8183E+18	2.7884E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		4.5530E+03
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		5.0152E+03
Total I (Ci)		9.2024E+03

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3720E+17
Elemental I (atoms)	3.9978E+15	4.0387E+13
Organic I (atoms)	1.2364E+14	1.2491E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5408E+16
Elemental I (atoms)	0.0000E+00	7.4781E+14
Organic I (atoms)	0.0000E+00	2.3128E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	1.3756E+17	0.0000E+00
Elemental I (atoms)	5.2837E+14	0.0000E+00
Organic I (atoms)	1.6341E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 48.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5468E+22
Elemental I (atoms)	1.5253E+22	1.5407E+20
Organic I (atoms)	4.7174E+20	4.7650E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

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CR Compartment Nuclide Inventory:

Time (h) = 48.0000	Ci	kg	Atoms	Decay
I-131	3.5208E-04	2.8399E-12	1.3055E+13	6.3671E+12
I-132	4.3875E-10	4.2506E-20	1.9392E+05	2.7100E+12
I-133	1.7511E-04	1.5458E-13	6.9991E+11	9.8244E+12
I-135	5.3387E-06	1.5202E-15	6.7814E+09	6.1328E+12
Xe-133	6.7330E-01	3.5971E-09	1.6287E+16	2.5874E+15
Xe-133m	3.7223E-02	8.4548E-11	3.8283E+14	1.5600E+14
Xe-135	3.0630E-01	1.1994E-10	5.3504E+14	5.2760E+15
Xe-135m	6.3922E-05	7.0218E-16	3.1323E+09	4.4883E+13

CR Transport Group Inventory:

Time (h) = 48.0000	Atmosphere	Sump
Noble gases (atoms)	1.7205E+16	0.0000E+00
Elemental I (atoms)	1.3349E+13	0.0000E+00
Organic I (atoms)	4.1286E+11	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.5350E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.7014E-14
Total I (Ci)		5.3253E-04

Time (h) = 48.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.2068E+14
Organic I (atoms)	0.0000E+00	6.8250E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

Time (h) = 48.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3720E+17
Elemental I (atoms)	3.9978E+15	4.0387E+13
Organic I (atoms)	1.2364E+14	1.2491E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

Time (h) = 48.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5408E+16
Elemental I (atoms)	0.0000E+00	7.4781E+14
Organic I (atoms)	0.0000E+00	2.3128E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

Time (h) = 48.0000	Pathway Filtered	Transported
Noble gases (atoms)	1.3756E+17	0.0000E+00
Elemental I (atoms)	5.2837E+14	0.0000E+00
Organic I (atoms)	1.6341E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4824E-01	4.0023E+01	1.5704E+00
Accumulated dose (rem)	2.0286E+00	9.3928E+01	4.9140E+00

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7177E-03	2.0525E-01	8.9856E-03
Accumulated dose (rem)	8.2090E-02	2.9258E+00	1.7323E-01

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2624E-03	1.1417E+00	4.0126E-02
Accumulated dose (rem)	4.0833E-02	8.4629E+00	3.0381E-01

RB Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
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I-131	4.3920E+04	3.5427E-04	1.6286E+21	7.0813E+20
I-132	3.3945E-08	3.2886E-18	1.5003E+07	1.6551E+19
I-133	5.2423E+03	4.6277E-06	2.0954E+19	4.6951E+20
I-135	5.1564E+00	1.4683E-09	6.5498E+15	1.0257E+20
Xe-133	1.3144E+05	7.0221E-04	3.1796E+21	1.4640E+21
Xe-133m	5.5805E+03	1.2676E-05	5.7394E+19	7.8256E+19
Xe-135	1.9774E+03	7.7434E-07	3.4542E+18	1.1673E+21
Xe-135m	2.6014E+00	2.8576E-11	1.2747E+14	3.5044E+19

RB Transport Group Inventory:

Time (h) =	96.0000	Atmosphere	Sump
Noble gases (atoms)	3.2404E+21	0.0000E+00	
Elemental I (atoms)	1.6001E+21	0.0000E+00	
Organic I (atoms)	4.9487E+19	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			8.1539E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			8.2502E-07
Total I (Ci)			4.9168E+04

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.9006E+22
Elemental I (atoms)	2.7786E+22	2.8067E+20
Organic I (atoms)	8.5937E+20	8.6805E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.4306E+22
Elemental I (atoms)	2.7837E+23	3.0930E+22
Organic I (atoms)	8.6094E+21	9.5659E+20
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) =	96.0000	Ci	kg	Atoms	Bq
I-131		7.2736E+03	5.8670E-05	2.6971E+20	2.6912E+14
I-132		2.3100E+02	2.2380E-08	1.0210E+17	8.5472E+12
I-133		4.8300E+03	4.2637E-06	1.9306E+19	1.7871E+14
I-134		9.4304E+01	3.5351E-09	1.5887E+16	3.4893E+12
I-135		1.1117E+03	3.1655E-07	1.4121E+18	4.1132E+13
Xe-133		1.4834E+06	7.9248E-03	3.5883E+22	5.4885E+16
Xe-133m		7.8840E+04	1.7908E-04	8.1085E+20	2.9171E+15
Xe-135		1.1364E+06	4.4499E-04	1.9850E+21	4.2046E+16
Xe-135m		1.7512E+04	1.9237E-07	8.5814E+17	6.4795E+14

Environment Transport Group Inventory:

	Total	Release	
Time (h) =	96.0000	Release	Rate/s
Noble gases (atoms)	3.8679E+22	1.1192E+17	
Elemental I (atoms)	2.8183E+20	8.1548E+14	
Organic I (atoms)	8.7164E+18	2.5221E+13	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci) I-131 (Thyroid)			8.1112E+03
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			8.6672E+03
Total I (Ci)			1.3541E+04

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1716E+17
Elemental I (atoms)	4.9560E+15	5.0067E+13
Organic I (atoms)	1.5328E+14	1.5485E+12

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Aerosols (kg) 0.0000E+00 0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8734E+16
Elemental I (atoms)	0.0000E+00	9.2706E+14
Organic I (atoms)	0.0000E+00	2.8672E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	3.4715E+17	0.0000E+00
Elemental I (atoms)	6.6290E+14	0.0000E+00
Organic I (atoms)	2.0502E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9006E+22
Elemental I (atoms)	2.7786E+22	2.8067E+20
Organic I (atoms)	8.5937E+20	8.6805E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
I-131	2.5211E-04	2.0336E-12	9.3485E+12	8.2797E+12
I-133	3.0092E-05	2.6564E-14	1.2028E+11	1.0351E+13
I-135	2.9599E-08	8.4283E-18	3.7597E+07	6.1394E+12
Xe-133	6.4411E-01	3.4411E-09	1.5581E+16	7.0294E+15
Xe-133m	2.7176E-02	6.1729E-11	2.7950E+14	3.7264E+14
Xe-135	9.6924E-03	3.7954E-12	1.6931E+13	5.8548E+15
Xe-135m	3.5377E-07	3.8862E-18	1.7336E+07	4.5255E+13

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	1.5877E+16	0.0000E+00
Elemental I (atoms)	9.1848E+12	0.0000E+00
Organic I (atoms)	2.8407E+11	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.3833E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.4114E-14
Total I (Ci)		2.8224E-04

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.7686E+14
Organic I (atoms)	0.0000E+00	8.5628E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1716E+17
Elemental I (atoms)	4.9560E+15	5.0067E+13
Organic I (atoms)	1.5328E+14	1.5485E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

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Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8734E+16
Elemental I (atoms)	0.0000E+00	9.2706E+14
Organic I (atoms)	0.0000E+00	2.8672E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	3.4715E+17	0.0000E+00
Elemental I (atoms)	6.6290E+14	0.0000E+00
Organic I (atoms)	2.0502E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9001E-01	6.1084E+01	2.1505E+00
Accumulated dose (rem)	2.3186E+00	1.5501E+02	7.0645E+00

LPZ Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4952E-04	1.0374E-01	3.9093E-03
Accumulated dose (rem)	8.2840E-02	3.0296E+00	1.7714E-01

CR Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2511E-03	8.6455E-01	2.8583E-02
Accumulated dose (rem)	4.3084E-02	9.3274E+00	3.3239E-01

RB Compartment Nuclide Inventory:

Time (h) = 240.0000	Ci	kg	Atoms	Decay
I-131	1.5977E+04	1.2887E-04	5.9243E+20	1.2372E+21
I-133	2.6360E+01	2.3269E-08	1.0536E+17	4.8838E+20
I-135	8.7062E-07	2.4791E-16	1.1059E+09	1.0258E+20
Xe-133	4.0584E+04	2.1681E-04	9.8172E+20	2.9866E+21
Xe-133m	6.2970E+02	1.4303E-06	6.4764E+18	1.2359E+20
Xe-135	2.2417E-02	8.7783E-12	3.9159E+13	1.1707E+21
Xe-135m	4.3922E-07	4.8249E-18	2.1523E+07	3.5047E+19

RB Transport Group Inventory:

Time (h) = 240.0000	Atmosphere	Sump
Noble gases (atoms)	9.8820E+20	0.0000E+00
Elemental I (atoms)	5.7476E+20	0.0000E+00
Organic I (atoms)	1.7776E+19	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.9091E-07
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.9096E-07
Total I (Ci)		1.6003E+04

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7276E+22
Elemental I (atoms)	4.7178E+22	4.7655E+20
Organic I (atoms)	1.4591E+21	1.4739E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.1832E+22
Elemental I (atoms)	4.5021E+23	5.0024E+22

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Organic I (atoms)	1.3924E+22	1.5471E+21
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 240.0000	Ci	kg	Atoms	Bq
I-131	1.2679E+04	1.0227E-04	4.7014E+20	4.6912E+14
I-132	2.3100E+02	2.2380E-08	1.0210E+17	8.5472E+12
I-133	5.0199E+03	4.4314E-06	2.0065E+19	1.8574E+14
I-134	9.4304E+01	3.5351E-09	1.5887E+16	3.4893E+12
I-135	1.1117E+03	3.1656E-07	1.4121E+18	4.1134E+13
Xe-133	3.0370E+06	1.6225E-02	7.3466E+22	1.1237E+17
Xe-133m	1.2490E+05	2.8369E-04	1.2845E+21	4.6212E+15
Xe-135	1.1397E+06	4.4630E-04	1.9909E+21	4.2170E+16
Xe-135m	1.7512E+04	1.9238E-07	8.5816E+17	6.4796E+14

Environment Transport Group Inventory:

	Total	Release
Time (h) = 240.0000	Release	Rate/s
Noble gases (atoms)	7.6742E+22	8.8822E+16
Elemental I (atoms)	4.7698E+20	5.5206E+14
Organic I (atoms)	1.4752E+19	1.7074E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		1.3548E+04
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.4123E+04
Total I (Ci)		1.9136E+04

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3247E+17
Elemental I (atoms)	6.0470E+15	6.1087E+13
Organic I (atoms)	1.8702E+14	1.8893E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8605E+16
Elemental I (atoms)	0.0000E+00	1.1311E+15
Organic I (atoms)	0.0000E+00	3.4983E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	6.0896E+17	0.0000E+00
Elemental I (atoms)	8.1778E+14	0.0000E+00
Organic I (atoms)	2.5292E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7276E+22
Elemental I (atoms)	4.7178E+22	4.7655E+20
Organic I (atoms)	1.4591E+21	1.4739E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 240.0000	Ci	kg	Atoms	Decay
I-131	6.7484E-05	5.4434E-13	2.5023E+12	1.0535E+13
I-133	1.1134E-07	9.8287E-17	4.4504E+08	1.0433E+13

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Xe-133	1.4813E-01	7.9138E-10	3.5833E+15	1.2645E+16
Xe-133m	2.2970E-03	5.2175E-12	2.3624E+13	5.4001E+14
Xe-135	8.1826E-08	3.2042E-17	1.4293E+08	5.8679E+15

CR Transport Group Inventory:

Time (h) = 240.0000	Atmosphere	Sump
Noble gases (atoms)	3.6069E+15	0.0000E+00
Elemental I (atoms)	2.4277E+12	0.0000E+00
Organic I (atoms)	7.5084E+10	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.2568E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.2578E-15
Total I (Ci)		6.7595E-05

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 240.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.4155E+14
Organic I (atoms)	0.0000E+00	1.0563E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 240.0000		
Noble gases (atoms)	0.0000E+00	5.3247E+17
Elemental I (atoms)	6.0470E+15	6.1087E+13
Organic I (atoms)	1.8702E+14	1.8893E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 240.0000		
Noble gases (atoms)	0.0000E+00	9.8605E+16
Elemental I (atoms)	0.0000E+00	1.1311E+15
Organic I (atoms)	0.0000E+00	3.4983E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 240.0000		
Noble gases (atoms)	6.0896E+17	0.0000E+00
Elemental I (atoms)	8.1778E+14	0.0000E+00
Organic I (atoms)	2.5292E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.9825E-02	2.8282E+01	9.6088E-01
Accumulated dose (rem)	2.4185E+00	1.8329E+02	8.0254E+00

LPZ Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5799E-04	4.8033E-02	1.7204E-03
Accumulated dose (rem)	8.3098E-02	3.0776E+00	1.7886E-01

CR Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.5700E-04	3.9584E-01	1.2809E-02
Accumulated dose (rem)	4.3841E-02	9.7233E+00	3.4520E-01

RB Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 480.0000				
I-131	2.9616E+03	2.3889E-05	1.0982E+20	1.4837E+21
I-133	3.8902E-03	3.4341E-12	1.5549E+13	4.8847E+20
Xe-133	4.8052E+03	2.5671E-05	1.1624E+20	3.5228E+21
Xe-133m	1.2462E+01	2.8307E-08	1.2817E+17	1.2863E+20
Xe-135	1.1108E-10	4.3499E-20	1.9404E+05	1.1707E+21

RB Transport Group Inventory:

Time (h) = 480.0000	Atmosphere	Sump
Noble gases (atoms)	1.1637E+20	0.0000E+00

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Elemental I (atoms)	1.0652E+20	0.0000E+00
Organic I (atoms)	3.2945E+18	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.3911E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.3912E-08
Total I (Ci)		2.9616E+03

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.0640E+22
Elemental I (atoms)	5.6175E+22	5.6743E+20
Organic I (atoms)	1.7374E+21	1.7549E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4859E+22
Elemental I (atoms)	5.2995E+23	5.8883E+22
Organic I (atoms)	1.6390E+22	1.8211E+21
Aerosols (kg)	0.0000E+00	0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 480.0000	Ci	kg	Atoms	Bq
I-131	1.5196E+04	1.2258E-04	5.6349E+20	5.6227E+14
I-132	2.3100E+02	2.2380E-08	1.0210E+17	8.5472E+12
I-133	5.0209E+03	4.4322E-06	2.0069E+19	1.8577E+14
I-134	9.4304E+01	3.5351E-09	1.5887E+16	3.4893E+12
I-135	1.1117E+03	3.1656E-07	1.4121E+18	4.1134E+13
Xe-133	3.5843E+06	1.9149E-02	8.6704E+22	1.3262E+17
Xe-133m	1.3002E+05	2.9533E-04	1.3372E+21	4.8107E+15
Xe-135	1.1397E+06	4.4630E-04	1.9909E+21	4.2170E+16
Xe-135m	1.7512E+04	1.9238E-07	8.5816E+17	6.4796E+14

Environment Transport Group Inventory:

	Total Release	Release Rate/s
Time (h) = 480.0000		
Noble gases (atoms)	9.0033E+22	5.2102E+16
Elemental I (atoms)	5.6754E+20	3.2844E+14
Organic I (atoms)	1.7553E+19	1.0158E+13
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		1.6066E+04
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.6641E+04
Total I (Ci)		2.1654E+04

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0765E+17
Elemental I (atoms)	6.5532E+15	6.6199E+13
Organic I (atoms)	2.0267E+14	2.0474E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1253E+17
Elemental I (atoms)	0.0000E+00	1.2258E+15
Organic I (atoms)	0.0000E+00	3.7912E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

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	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	6.9929E+17	0.0000E+00
Elemental I (atoms)	8.8886E+14	0.0000E+00
Organic I (atoms)	2.7491E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.0640E+22
Elemental I (atoms)	5.6175E+22	5.6743E+20
Organic I (atoms)	1.7374E+21	1.7549E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) = 480.0000	Ci	kg	Atoms	Decay
I-131	1.2509E-05	1.0090E-13	4.6386E+11	1.1576E+13
I-133	1.6432E-11	1.4505E-20	6.5679E+04	1.0433E+13
Xe-133	1.7543E-02	9.3719E-11	4.2435E+14	1.4602E+16
Xe-133m	4.5496E-05	1.0334E-13	4.6792E+11	5.5839E+14

CR Transport Group Inventory:

Time (h) = 480.0000	Pathway	
	Atmosphere	Sump
Noble gases (atoms)	4.2482E+14	0.0000E+00
Elemental I (atoms)	4.4994E+11	0.0000E+00
Organic I (atoms)	1.3916E+10	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1595E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.1595E-15
Total I (Ci)		1.2509E-05

	Deposition Recirculating	
Time (h) = 480.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.7124E+14
Organic I (atoms)	0.0000E+00	1.1482E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0765E+17
Elemental I (atoms)	6.5532E+15	6.6199E+13
Organic I (atoms)	2.0267E+14	2.0474E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1253E+17
Elemental I (atoms)	0.0000E+00	1.2258E+15
Organic I (atoms)	0.0000E+00	3.7912E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	6.9929E+17	0.0000E+00
Elemental I (atoms)	8.8886E+14	0.0000E+00
Organic I (atoms)	2.7491E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

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EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2025E-02	5.2423E+00	1.7163E-01
Accumulated dose (rem)	2.4305E+00	1.8854E+02	8.1970E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1078E-05	8.9033E-03	3.0214E-04
Accumulated dose (rem)	8.3129E-02	3.0865E+00	1.7917E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8903E-05	7.3372E-02	2.3227E-03
Accumulated dose (rem)	4.3930E-02	9.7967E+00	3.4753E-01

RB Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
I-131	5.4899E+02	4.4282E-06	2.0357E+19	1.5294E+21
I-133	5.7412E-07	5.0681E-16	2.2948E+09	4.8847E+20
Xe-133	5.6354E+02	3.0106E-06	1.3632E+19	3.5860E+21
Xe-133m	2.4444E-01	5.5522E-10	2.5140E+15	1.2873E+20

RB Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.3634E+19	0.0000E+00
Elemental I (atoms)	1.9746E+19	0.0000E+00
Organic I (atoms)	6.1071E+17	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		9.9935E-09
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.9935E-09
Total I (Ci)		5.4899E+02

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway
Time (h) = 720.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 7.5537E+16
Elemental I (atoms)	0.0000E+00 2.5888E+18
Organic I (atoms)	0.0000E+00 8.0065E+16
Aerosols (kg)	0.0000E+00 0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway
Time (h) = 720.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 9.2209E+22
Elemental I (atoms)	5.7843E+22 5.8427E+20
Organic I (atoms)	1.7890E+21 1.8070E+19
Aerosols (kg)	0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway
Time (h) = 720.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 9.6389E+22
Elemental I (atoms)	5.4472E+23 6.0525E+22
Organic I (atoms)	1.6847E+22 1.8719E+21
Aerosols (kg)	0.0000E+00 0.0000E+00

Environment Integral Nuclide Release:

Time (h) = 720.0000	Ci	kg	Atoms	Bq
I-131	1.5663E+04	1.2634E-04	5.8080E+20	5.7953E+14
I-132	2.3100E+02	2.2380E-08	1.0210E+17	8.5472E+12
I-133	5.0209E+03	4.4322E-06	2.0069E+19	1.8577E+14
I-134	9.4304E+01	3.5351E-09	1.5887E+16	3.4893E+12
I-135	1.1117E+03	3.1656E-07	1.4121E+18	4.1134E+13
Xe-133	3.6488E+06	1.9493E-02	8.8263E+22	1.3500E+17
Xe-133m	1.3012E+05	2.9555E-04	1.3382E+21	4.8144E+15
Xe-135	1.1397E+06	4.4630E-04	1.9909E+21	4.2170E+16
Xe-135m	1.7512E+04	1.9238E-07	8.5816E+17	6.4796E+14

Environment Transport Group Inventory:

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	Total Release	Release Rate/s
Time (h) = 720.0000		
Noble gases (atoms)	9.1593E+22	3.5337E+16
Elemental I (atoms)	5.8432E+20	2.2543E+14
Organic I (atoms)	1.8072E+19	6.9722E+12
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci) I-131 (Thyroid)		1.6532E+04
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.7108E+04
Total I (Ci)		2.2121E+04

CR Filtered Intake Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 720.0000		
Noble gases (atoms)	0.0000E+00	6.1648E+17
Elemental I (atoms)	6.6470E+15	6.7147E+13
Organic I (atoms)	2.0558E+14	2.0767E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 720.0000		
Noble gases (atoms)	0.0000E+00	1.1416E+17
Elemental I (atoms)	0.0000E+00	1.2434E+15
Organic I (atoms)	0.0000E+00	3.8454E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 720.0000		
Noble gases (atoms)	7.0990E+17	0.0000E+00
Elemental I (atoms)	9.0204E+14	0.0000E+00
Organic I (atoms)	2.7898E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 720.0000		
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 720.0000		
Noble gases (atoms)	0.0000E+00	9.2209E+22
Elemental I (atoms)	5.7843E+22	5.8427E+20
Organic I (atoms)	1.7890E+21	1.8070E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 720.0000				
I-131	2.3189E-06	1.8704E-14	8.5985E+10	1.1769E+13
Xe-133	2.0573E-03	1.0991E-11	4.9767E+13	1.4833E+16
Xe-133m	8.9238E-07	2.0270E-15	9.1779E+09	5.5875E+14

CR Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 720.0000		
Noble gases (atoms)	4.9776E+13	0.0000E+00
Elemental I (atoms)	8.3405E+10	0.0000E+00
Organic I (atoms)	2.5795E+09	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.1493E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.1493E-16
Total I (Ci)		2.3189E-06

	Deposition Surfaces	Recirculating Filter
Time (h) = 720.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.7674E+14
Organic I (atoms)	0.0000E+00	1.1652E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

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CR Filtered Intake Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1648E+17
Elemental I (atoms)	6.6470E+15	6.7147E+13
Organic I (atoms)	2.0558E+14	2.0767E+12
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1416E+17
Elemental I (atoms)	0.0000E+00	1.2434E+15
Organic I (atoms)	0.0000E+00	3.8454E+13
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	7.0990E+17	0.0000E+00
Elemental I (atoms)	9.0204E+14	0.0000E+00
Organic I (atoms)	2.7898E+13	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

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 I-131 Summary
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	Pool	RB	Environment
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1457E+03	5.8560E-04	8.9550E-09
0.017	1.8472E+05	5.2887E-01	2.4314E-04
0.270	2.9827E+06	1.3713E+02	1.0213E+00
0.500	5.5172E+06	4.6681E+02	6.4503E+00
0.750	1.0104E+07	1.1203E+03	2.2180E+01
1.000	1.4679E+07	2.1485E+03	5.5284E+01
1.400	2.1975E+07	4.4825E+03	5.7049E+01
1.700	2.7428E+07	6.7901E+03	5.9334E+01
2.000	3.2865E+07	9.5518E+03	6.2654E+01
2.300	3.2796E+07	1.2469E+04	6.7152E+01
2.600	3.2727E+07	1.5259E+04	7.2815E+01
2.900	3.2658E+07	1.7927E+04	7.9592E+01
3.200	3.2589E+07	2.0480E+04	8.7435E+01
3.500	3.2520E+07	2.2920E+04	9.6296E+01
3.800	3.2452E+07	2.5254E+04	1.0613E+02
4.000	3.2406E+07	2.6752E+04	1.1321E+02
4.300	3.2338E+07	2.8917E+04	1.2457E+02
4.600	3.2270E+07	3.0986E+04	1.3680E+02
4.900	3.2202E+07	3.2963E+04	1.4985E+02
5.200	3.2134E+07	3.4852E+04	1.6370E+02
5.500	3.2067E+07	3.6657E+04	1.7830E+02
5.800	3.1999E+07	3.8382E+04	1.9361E+02
6.100	3.1932E+07	4.0028E+04	2.0962E+02
6.400	3.1865E+07	4.1600E+04	2.2628E+02
6.700	3.1798E+07	4.3101E+04	2.4357E+02
7.000	3.1731E+07	4.4534E+04	2.6146E+02
7.300	3.1664E+07	4.5901E+04	2.7991E+02
7.600	3.1597E+07	4.7205E+04	2.9892E+02
7.900	3.1531E+07	4.8449E+04	3.1844E+02
8.000	3.1509E+07	4.8851E+04	3.2506E+02
8.300	3.1442E+07	5.0018E+04	3.4524E+02
8.600	3.1376E+07	5.1131E+04	3.6589E+02
8.900	3.1310E+07	5.2192E+04	3.8697E+02
9.200	3.1244E+07	5.3202E+04	4.0849E+02
9.500	3.1179E+07	5.4165E+04	4.3040E+02
9.800	3.1113E+07	5.5081E+04	4.5270E+02
10.100	3.1047E+07	5.5953E+04	4.7536E+02
10.400	3.0982E+07	5.6783E+04	4.9837E+02
16.000	2.9787E+07	6.6355E+04	9.7318E+02
24.000	2.8160E+07	6.9329E+04	1.7173E+03
48.000	2.3792E+07	6.1404E+04	3.8693E+03
96.000	1.6984E+07	4.3920E+04	7.2736E+03

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240.000	6.1783E+06	1.5977E+04	1.2679E+04
480.000	1.1453E+06	2.9616E+03	1.5196E+04
720.000	2.1230E+05	5.4899E+02	1.5663E+04

CR

Time (hr)	I-131 (Curies)
0.000	6.2125E-12
0.017	1.6857E-07
0.270	1.8235E-04
0.500	1.1278E-03
0.750	3.7980E-03
1.000	9.2852E-03
1.400	8.0539E-03
1.700	7.2494E-03
2.000	6.5372E-03
2.300	5.8904E-03
2.600	5.3161E-03
2.900	4.8066E-03
3.200	4.3549E-03
3.500	3.9550E-03
3.800	3.6013E-03
4.000	3.3886E-03
4.300	3.1011E-03
4.600	2.8476E-03
4.900	2.6244E-03
5.200	2.4283E-03
5.500	2.2563E-03
5.800	2.1058E-03
6.100	1.9743E-03
6.400	1.8598E-03
6.700	1.7604E-03
7.000	1.6743E-03
7.300	1.6000E-03
7.600	1.5363E-03
7.900	1.4818E-03
8.000	1.4655E-03
8.300	1.3551E-03
8.600	1.2570E-03
8.900	1.1698E-03
9.200	1.0924E-03
9.500	1.0238E-03
9.800	9.6292E-04
10.100	9.0902E-04
10.400	8.6134E-04
16.000	5.5041E-04
24.000	5.4415E-04
48.000	3.5208E-04
96.000	2.5211E-04
240.000	6.7484E-05
480.000	1.2509E-05
720.000	2.3189E-06

Cumulative Dose Summary
#####

Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.5457E-05	5.6519E-07	2.1043E-06	7.6941E-08	1.5102E-07	4.8260E-09
0.270	6.4760E-02	2.3476E-03	8.8161E-03	3.1959E-04	2.2085E-03	7.0487E-05
0.500	4.0806E-01	1.4684E-02	5.5551E-02	1.9990E-03	2.5300E-02	8.0647E-04
0.750	1.3997E+00	4.9986E-02	1.9054E-01	6.8048E-03	1.2593E-01	4.0088E-03
1.000	3.4801E+00	1.2342E-01	4.7376E-01	1.6802E-02	4.0165E-01	1.2770E-02
1.400	3.5076E+00	1.2487E-01	4.8696E-01	1.7500E-02	1.0097E+00	3.2058E-02
1.700	3.5431E+00	1.2678E-01	5.0397E-01	1.8414E-02	1.4107E+00	4.4754E-02
2.000	3.5944E+00	1.2957E-01	5.2859E-01	1.9750E-02	1.7707E+00	5.6138E-02
2.300	3.6637E+00	1.3335E-01	5.6185E-01	2.1567E-02	2.0940E+00	6.6357E-02
2.600	3.7507E+00	1.3814E-01	6.0357E-01	2.3864E-02	2.3845E+00	7.5534E-02
2.900	3.8544E+00	1.4389E-01	6.5333E-01	2.6620E-02	2.6461E+00	8.3795E-02
3.200	3.9740E+00	1.5055E-01	7.1071E-01	2.9817E-02	2.8820E+00	9.1251E-02
3.500	4.1088E+00	1.5811E-01	7.7534E-01	3.3443E-02	3.0953E+00	9.8000E-02
3.800	4.2578E+00	1.6654E-01	8.4684E-01	3.7489E-02	3.2887E+00	1.0413E-01
4.000	4.3648E+00	1.7264E-01	8.9815E-01	4.0416E-02	3.4077E+00	1.0791E-01
4.300	4.5361E+00	1.8250E-01	9.8034E-01	4.5146E-02	3.5729E+00	1.1317E-01
4.600	4.7199E+00	1.9320E-01	1.0685E+00	5.0278E-02	3.7239E+00	1.1799E-01
4.900	4.9154E+00	2.0472E-01	1.1623E+00	5.5804E-02	3.8623E+00	1.2244E-01

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```

5.200 5.1222E+00 2.1704E-01 1.2615E+00 6.1716E-02 3.9898E+00 1.2656E-01
5.500 5.3397E+00 2.3016E-01 1.3658E+00 6.8007E-02 4.1077E+00 1.3040E-01
5.800 5.5672E+00 2.4404E-01 1.4750E+00 7.4667E-02 4.2171E+00 1.3400E-01
6.100 5.8042E+00 2.5867E-01 1.5887E+00 8.1687E-02 4.3192E+00 1.3739E-01
6.400 6.0503E+00 2.7403E-01 1.7067E+00 8.9056E-02 4.4149E+00 1.4060E-01
6.700 6.3049E+00 2.9010E-01 1.8289E+00 9.6764E-02 4.5049E+00 1.4366E-01
7.000 6.5677E+00 3.0686E-01 1.9550E+00 1.0480E-01 4.5902E+00 1.4659E-01
7.300 6.8381E+00 3.2427E-01 2.0847E+00 1.1316E-01 4.6712E+00 1.4942E-01
7.600 7.1157E+00 3.4232E-01 2.2179E+00 1.2182E-01 4.7487E+00 1.5216E-01
7.900 7.4003E+00 3.6099E-01 2.3544E+00 1.3077E-01 4.8230E+00 1.5483E-01
8.000 7.4966E+00 3.6734E-01 2.4006E+00 1.3382E-01 4.8472E+00 1.5571E-01
8.300 7.7897E+00 3.8679E-01 2.4033E+00 1.3409E-01 4.9164E+00 1.5824E-01
8.600 8.0888E+00 4.0680E-01 2.4061E+00 1.3438E-01 4.9803E+00 1.6059E-01
8.900 8.3935E+00 4.2734E-01 2.4090E+00 1.3467E-01 5.0396E+00 1.6278E-01
9.200 8.7037E+00 4.4839E-01 2.4119E+00 1.3497E-01 5.0947E+00 1.6484E-01
9.500 9.0188E+00 4.6992E-01 2.4149E+00 1.3527E-01 5.1461E+00 1.6678E-01
9.800 9.3388E+00 4.9192E-01 2.4179E+00 1.3559E-01 5.1943E+00 1.6861E-01
10.100 9.6631E+00 5.1436E-01 2.4209E+00 1.3591E-01 5.2395E+00 1.7035E-01
10.400 9.9917E+00 5.3721E-01 2.4240E+00 1.3624E-01 5.2823E+00 1.7201E-01
16.000 1.6653E+01 1.0294E+00 2.4866E+00 1.4340E-01 5.8546E+00 1.9660E-01
24.000 2.6697E+01 1.7712E+00 2.5811E+00 1.5421E-01 6.5131E+00 2.2819E-01
48.000 5.3905E+01 3.3436E+00 2.7206E+00 1.6425E-01 7.3212E+00 2.6368E-01
96.000 9.3928E+01 4.9140E+00 2.9258E+00 1.7323E-01 8.4629E+00 3.0381E-01
240.000 1.5501E+02 7.0645E+00 3.0296E+00 1.7714E-01 9.3274E+00 3.3239E-01
480.000 1.8329E+02 8.0254E+00 3.0776E+00 1.7886E-01 9.7233E+00 3.4520E-01
720.000 1.8854E+02 8.1970E+00 3.0865E+00 1.7917E-01 9.7967E+00 3.4753E-01

```

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
16.0	1.0802E-01	2.5110E+00	1.8546E-01

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Attachment 13.4 - RADTRAD Output File "NMP2MS00.o0"

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:17:49
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2MS00.psf
Inventory file   = c:\radtrad3.03\nmp2\nmp2.nif
Release file     = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      #      # #####
# #      #      #      # ##      # #      #      #      #
# #      #      #      # #      # #      #      #      #
#####      #####      # #      # #####      #      #
#      #      #      # #      # #      #      #      #
#      #      #      # #      ##      #      #      #
#      #####      #      # #      #      #####      #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Combined Bypass Leakage Releases Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leakage
Reduction After 24 hrs, Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
0
0
Compartment 5:
CR
```


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```

1
3.8100E+05
0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
0
Compartment 9:
Intact Outboard Volume 4
3
4.8703E+02
0
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment
1
4
2
Pathway 6:
WW Bypass Pathway 6 to Environment
2
4
2
Pathway 7:
DW to MSIV Failed Inboard Volume 1
1

```

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```

6
2
Pathway 8:
MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2
6
7
2
Pathway 9:
MSIV Failed Outboard Volume 2 to Environment ( Pathway 7)
7
4
2
Pathway 10:
DW to Intact Inboard Volume 3
1
8
2
Pathway 11:
Intact Inboard Volume 3 to Intact Outboard Volume 4
8
9
2
Pathway 12:
CR Filtered Intake (Pathway 9)
4
5
2
Pathway 13:
CR Unfiltered Inleakage (Pathway 10)
4
5
2
Pathway 14:
CR Exhaust to Environment (Pathway 11)
5
4
2
Pathway 15:
Intact Outboard Volume 4 to Environment ( Pathway 8)
9
4
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
0
Compartments:
9
Compartment 1:
0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5

```

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```

0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  1.9800E+01
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
0
Compartment 4:
1
1
0
0
0
0
0
0
0
0
Compartment 5:
1
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Compartment 6:
0
1
0
0
0
0
0
0
0
0
0
Compartment 7:
0
1
0
0
0
0
0
0
0
0
Compartment 8:

```

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0
1
0
0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0

Pathway 4:

0
0
0
0

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```

0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
2.4000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
9.6000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 8:
0
0
0
0
0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00

```

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2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Pathway 9:					
0					
0					
0					
0					
0					
1					
5					
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00	
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00	
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00	
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Pathway 10:					
0					
0					
0					
0					
0					
1					
3					
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00	
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Pathway 11:					
0					
0					
0					
0					
0					
1					
5					
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00	
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00	
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Pathway 12:					
0					
0					
0					
0					
0					
1					
3					
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00	
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					

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```

0
0
0
Pathway 13:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
1
4
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.0000E+00  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 15:
0
0
0
0
0
1
5
0.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
2.4000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
9.6000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4

```

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```

1
5
0.0000E+00  1.6200E-05
8.0000E+00  1.0900E-05
2.4000E+01  4.5900E-06
9.6000E+01  1.3300E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o640
1
1
1
0
0
End of Scenario File

```


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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:17:49
#####
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment
 Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment
 Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Pat
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

Name: MSIV Failed Inboard Volume 1

Compartment volume = 3.9068E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 6

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Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Pat

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 10: DW to Intact Inboard Volume 3
Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Outboard Volume 4
Compartment volume = 4.8703E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 9
Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:17:49
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00

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9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Pat

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00

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1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.0000E+00	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate ($\text{m}^3 \cdot \text{sec}^{-1}$)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:17:49
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5544E-05	1.3625E-03	7.2579E-05	
Accumulated dose (rem)	1.5544E-05	1.3625E-03	7.2579E-05	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1161E-06	1.8548E-04	9.8805E-06	
Accumulated dose (rem)	2.1161E-06	1.8548E-04	9.8805E-06	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2220E-08	1.6332E-05	6.9592E-07	
Accumulated dose (rem)	1.2220E-08	1.6332E-05	6.9592E-07	

Environment Integral Nuclide Release:

Time (h) =	0.0167	Ci	kg	Atoms	Bq
Kr-83m	1.1160E-02	5.4975E-13	3.9888E+12	4.1290E+08	
Kr-85m	2.5208E-02	3.0631E-12	2.1702E+13	9.3269E+08	
Kr-85	1.2770E-03	3.2580E-09	2.3082E+16	4.7250E+07	
Kr-87	5.0576E-02	1.7855E-12	1.2359E+13	1.8713E+09	
Kr-88	6.9012E-02	5.5037E-12	3.7664E+13	2.5535E+09	
Rb-86	4.6733E-05	5.7434E-13	4.0218E+12	1.7291E+06	
Rb-88	1.9695E-02	1.6315E-13	1.1165E+12	7.2873E+08	
I-131	2.1230E-02	1.7124E-10	7.8721E+14	7.8550E+08	
I-132	3.0799E-02	2.9838E-12	1.3613E+13	1.1396E+09	
I-133	4.4002E-02	3.8843E-11	1.7588E+14	1.6281E+09	
I-134	4.9935E-02	1.8719E-12	8.4124E+12	1.8476E+09	
I-135	4.1541E-02	1.1829E-11	5.2766E+13	1.5370E+09	
Xe-133	1.5623E-01	8.3464E-10	3.7792E+15	5.7805E+09	
Xe-133m	4.7919E-03	1.0884E-11	4.9284E+13	1.7730E+08	
Xe-135	6.5700E-02	2.5727E-11	1.1476E+14	2.4309E+09	
Xe-135m	3.1707E-02	3.4830E-13	1.5537E+12	1.1732E+09	
Xe-138	1.3444E-01	1.4011E-12	6.1143E+12	4.9743E+09	
Cs-134	4.6734E-03	3.6120E-09	1.6233E+16	1.7291E+08	
Cs-136	1.4259E-03	1.9455E-11	8.6146E+13	5.2757E+07	
Cs-137	3.6282E-03	4.1712E-08	1.8335E+17	1.3424E+08	

Environment Transport Group Inventory:

Time (h) =	0.0167	Total	Release
		Release	Rate/s
Noble gases (atoms)	2.7109E+16	4.5091E+14	
Elemental I (atoms)	8.9322E+13	1.4857E+12	
Organic I (atoms)	5.5251E+12	9.1901E+10	
Aerosols (kg)	4.5550E-08	7.5766E-10	
Dose Effective (Ci) I-131 (Thyroid)		2.9990E-02	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		3.8410E-02	
Total I (Ci)		1.8751E-01	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

Pathway

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Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	2.7109E+16
Elemental I (atoms)	8.9338E+13	8.9338E+13	8.9338E+13
Organic I (atoms)	0.0000E+00	5.5261E+12	
Aerosols (kg)	1.2347E-07	4.5550E-08	

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	0.0000E+00

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2827E+10	
Elemental I (atoms)	1.4113E+08	1.4113E+08	
Organic I (atoms)	0.0000E+00	8.7295E+06	
Aerosols (kg)	2.6613E-13	8.8114E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4106E+13	
Elemental I (atoms)	0.0000E+00	4.6485E+10	
Organic I (atoms)	0.0000E+00	2.8753E+09	
Aerosols (kg)	0.0000E+00	2.3701E-11	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7019E+12	
Elemental I (atoms)	0.0000E+00	1.5495E+10	
Organic I (atoms)	0.0000E+00	9.5844E+08	
Aerosols (kg)	0.0000E+00	7.9003E-12	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	1.6476E+10	0.0000E+00	
Elemental I (atoms)	5.4296E+07	0.0000E+00	
Organic I (atoms)	3.3585E+06	0.0000E+00	
Aerosols (kg)	2.7685E-14	0.0000E+00	

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway		
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4357E+10	
Elemental I (atoms)	1.4617E+08	1.4617E+08	
Organic I (atoms)	0.0000E+00	9.0415E+06	
Aerosols (kg)	2.7545E-13	1.1062E-15	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m		7.7282E-06	3.8071E-16	2.7623E+09	1.0205E+07
Kr-85m		1.7466E-05	2.1224E-15	1.5037E+10	2.3034E+07
Kr-85		8.8517E-07	2.2583E-12	1.6000E+13	1.1663E+06
Kr-87		3.5010E-05	1.2360E-15	8.5555E+09	4.6276E+07
Kr-88		4.7808E-05	3.8126E-15	2.6091E+10	6.3080E+07
Rb-86		3.2393E-08	3.9811E-16	2.7877E+09	4.2680E+04
Rb-88		1.3848E-05	1.1472E-16	7.8504E+08	1.7265E+07
I-131		1.4715E-05	1.1870E-13	5.4566E+11	1.9389E+07
I-132		2.1333E-05	2.0667E-15	9.4288E+09	2.8153E+07
I-133		3.0498E-05	2.6922E-14	1.2190E+11	4.0190E+07
I-134		3.4546E-05	1.2950E-15	5.8199E+09	4.5728E+07
I-135		2.8787E-05	8.1971E-15	3.6566E+10	3.7952E+07
Xe-133		1.0829E-04	5.7853E-13	2.6195E+12	1.4268E+08
Xe-133m		3.3215E-06	7.5444E-15	3.4161E+10	4.3764E+06
Xe-135		4.5540E-05	1.7833E-14	7.9550E+10	5.9973E+07

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Xe-135m	2.1862E-05	2.4015E-16	1.0713E+09	2.9045E+07
Xe-138	9.2520E-05	9.6423E-16	4.2078E+09	1.2402E+08
Cs-134	3.2394E-06	2.5037E-12	1.1252E+13	4.2680E+06
Cs-136	9.8833E-07	1.3485E-14	5.9712E+10	1.3022E+06
Cs-137	2.5149E-06	2.8913E-11	1.2709E+14	3.3135E+06

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump	
Noble gases (atoms)	1.8791E+13	0.0000E+00		
Elemental I (atoms)	6.1910E+10	0.0000E+00		
Organic I (atoms)	3.8295E+09	0.0000E+00		
Aerosols (kg)	3.1573E-11	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.9267E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.4675E-15	
Total I (Ci)			1.2988E-04	

		Deposition	Recirculating	
Time (h) =	0.0167	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	0.0167	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	1.4106E+13		
Elemental I (atoms)	0.0000E+00	4.6485E+10		
Organic I (atoms)	0.0000E+00	2.8753E+09		
Aerosols (kg)	0.0000E+00	2.3701E-11		

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	0.0167	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	4.7019E+12		
Elemental I (atoms)	0.0000E+00	1.5495E+10		
Organic I (atoms)	0.0000E+00	9.5844E+08		
Aerosols (kg)	0.0000E+00	7.9003E-12		

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	0.0167	Filtered	Transported	
Noble gases (atoms)	1.6476E+10	0.0000E+00		
Elemental I (atoms)	5.4296E+07	0.0000E+00		
Organic I (atoms)	3.3585E+06	0.0000E+00		
Aerosols (kg)	2.7685E-14	0.0000E+00		

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5620E-04	3.2497E-02	1.7165E-03	
Accumulated dose (rem)	3.7174E-04	3.3859E-02	1.7891E-03	

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8491E-05	4.4240E-03	2.3368E-04	
Accumulated dose (rem)	5.0607E-05	4.6094E-03	2.4356E-04	

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2602E-06	6.0530E-04	2.6618E-05	
Accumulated dose (rem)	1.2725E-06	6.2163E-04	2.7314E-05	

Environment Integral Nuclide Release:

Time (h) =	0.0833	Ci	kg	Atoms	Bq
Kr-83m	2.7286E-01	1.3442E-11	9.7530E+13	1.0096E+10	
Kr-85m	6.2252E-01	7.5645E-11	5.3593E+14	2.3033E+10	
Kr-85	3.1761E-02	8.1029E-08	5.7408E+17	1.1751E+09	
Kr-87	1.2270E+00	4.3316E-11	2.9984E+14	4.5398E+10	
Kr-88	1.6974E+00	1.3536E-10	9.2634E+14	6.2803E+10	
Rb-86	1.1621E-03	1.4282E-11	1.0001E+14	4.2998E+07	
Rb-88	4.9452E-01	4.0966E-12	2.8034E+13	1.8297E+10	

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I-131	5.2789E-01	4.2580E-09	1.9574E+16	1.9532E+10
I-132	7.6020E-01	7.3648E-11	3.3600E+14	2.8127E+10
I-133	1.0926E+00	9.6453E-10	4.3673E+15	4.0427E+10
I-134	1.1979E+00	4.4904E-11	2.0180E+14	4.4322E+10
I-135	1.0282E+00	2.9277E-10	1.3060E+15	3.8042E+10
Xe-133	3.8856E+00	2.0758E-08	9.3991E+16	1.4377E+11
Xe-133m	1.1917E-01	2.7069E-10	1.2257E+15	4.4094E+09
Xe-135	1.6415E+00	6.4279E-10	2.8674E+15	6.0736E+10
Xe-135m	7.5878E-01	8.3353E-12	3.7182E+13	2.8075E+10
Xe-138	2.9292E+00	3.0528E-11	1.3322E+14	1.0838E+11
Cs-134	1.1622E-01	8.9828E-08	4.0370E+17	4.3002E+09
Cs-136	3.5456E-02	4.8377E-10	2.1422E+15	1.3119E+09
Cs-137	9.0230E-02	1.0373E-06	4.5599E+18	3.3385E+09

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 0.0833	Release	Rate/s	
Noble gases (atoms)	6.7419E+17	2.2482E+15	
Elemental I (atoms)	2.2193E+15	7.4006E+12	
Organic I (atoms)	1.3728E+14	4.5777E+11	
Aerosols (kg)	1.1328E-06	3.7775E-09	
Dose Effective (Ci) I-131 (Thyroid)		7.4524E-01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		9.5333E-01	
Total I (Ci)		4.6068E+00	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7415E+17
Elemental I (atoms)	2.2196E+15	2.2196E+15
Organic I (atoms)	0.0000E+00	1.3730E+14
Aerosols (kg)	3.0705E-06	1.1328E-06

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5495E+13
Elemental I (atoms)	8.3916E+10	8.3916E+10
Organic I (atoms)	0.0000E+00	5.1907E+09
Aerosols (kg)	1.5844E-10	5.2457E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.2016E+14
Elemental I (atoms)	1.9754E+12	6.6438E+10
Organic I (atoms)	1.2219E+11	4.1096E+09
Aerosols (kg)	1.0081E-09	3.3884E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1693E+14
Elemental I (atoms)	0.0000E+00	3.8500E+11
Organic I (atoms)	0.0000E+00	2.3815E+10
Aerosols (kg)	0.0000E+00	1.9647E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	4.9959E+12	0.0000E+00
Elemental I (atoms)	3.6052E+09	0.0000E+00
Organic I (atoms)	2.2300E+08	0.0000E+00

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Aerosols (kg) 1.8401E-12 0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6410E+13
Elemental I (atoms)	8.6926E+10	8.6926E+10
Organic I (atoms)	0.0000E+00	5.3769E+09
Aerosols (kg)	1.6400E-10	6.5865E-13

CR Compartment Nuclide Inventory:

Time (h) = 0.0833	Ci	kg	Atoms	Decay
Kr-83m	2.9373E-04	1.4470E-14	1.0499E+11	1.2600E+09
Kr-85m	6.7354E-04	8.1845E-14	5.7986E+11	2.8756E+09
Kr-85	3.4488E-05	8.7987E-11	6.2338E+14	1.4675E+08
Kr-87	1.3154E-03	4.6440E-14	3.2145E+11	5.6639E+09
Kr-88	1.8326E-03	1.4615E-13	1.0002E+12	7.8394E+09
Rb-86	2.3365E-07	2.8715E-15	2.0108E+10	1.1548E+06
Rb-88	2.1850E-04	1.8100E-15	1.2387E+10	7.3971E+08
I-131	1.0613E-04	8.5605E-13	3.9353E+12	5.2457E+08
I-132	1.5168E-04	1.4695E-14	6.7042E+10	7.5398E+08
I-133	2.1951E-04	1.9378E-13	8.7741E+11	1.0858E+09
I-134	2.3642E-04	8.8625E-15	3.9829E+10	1.1926E+09
I-135	2.0621E-04	5.8720E-14	2.6194E+11	1.0219E+09
Xe-133	4.2187E-03	2.2538E-11	1.0205E+14	1.7952E+10
Xe-133m	1.2937E-04	2.9385E-13	1.3305E+12	5.5054E+08
Xe-135	1.7807E-03	6.9731E-13	3.1106E+12	7.5695E+09
Xe-135m	7.7390E-04	8.5014E-15	3.7923E+10	3.4113E+09
Xe-138	2.9660E-03	3.0911E-14	1.3489E+11	1.3463E+10
Cs-134	2.3368E-05	1.8061E-11	8.1167E+13	1.1549E+08
Cs-136	7.1284E-06	9.7262E-14	4.3068E+11	3.5233E+07
Cs-137	1.8142E-05	2.0857E-10	9.1681E+14	8.9662E+07

CR Transport Group Inventory:

Time (h) = 0.0833	Atmosphere	Sump
Noble gases (atoms)	7.3205E+14	0.0000E+00
Elemental I (atoms)	4.4596E+11	0.0000E+00
Organic I (atoms)	2.7585E+10	0.0000E+00
Aerosols (kg)	2.2776E-10	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3883E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7747E-14
Total I (Ci)		9.1996E-04

	Deposition	Recirculating
Time (h) = 0.0833	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.4830E+09
Organic I (atoms)	0.0000E+00	9.1734E+07
Aerosols (kg)	0.0000E+00	7.5696E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.2016E+14
Elemental I (atoms)	1.9754E+12	6.6438E+10
Organic I (atoms)	1.2219E+11	4.1096E+09
Aerosols (kg)	1.0081E-09	3.3884E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1693E+14
Elemental I (atoms)	0.0000E+00	3.8500E+11
Organic I (atoms)	0.0000E+00	2.3815E+10
Aerosols (kg)	0.0000E+00	1.9647E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	4.9959E+12	0.0000E+00
Elemental I (atoms)	3.6052E+09	0.0000E+00
Organic I (atoms)	2.2300E+08	0.0000E+00
Aerosols (kg)	1.8401E-12	0.0000E+00

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EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8787E-03	5.0686E-01	2.6095E-02	
Accumulated dose (rem)	5.2505E-03	5.4072E-01	2.7884E-02	

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6417E-04	6.9001E-02	3.5524E-03	
Accumulated dose (rem)	7.1477E-04	7.3610E-02	3.7960E-03	

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5144E-05	2.9865E-02	1.3201E-03	
Accumulated dose (rem)	6.6417E-05	3.0486E-02	1.3474E-03	

Environment Integral Nuclide Release:

Time (h) =	0.3333	Ci	kg	Atoms	Bq
Kr-83m		4.1116E+00	2.0255E-10	1.4696E+15	1.5213E+11
Kr-85m		9.7249E+00	1.1817E-09	8.3723E+15	3.5982E+11
Kr-85		5.0912E-01	1.2989E-06	9.2024E+18	1.8838E+10
Kr-87		1.7971E+01	6.3445E-10	4.3917E+15	6.6494E+11
Kr-88		2.6126E+01	2.0835E-09	1.4258E+16	9.6665E+11
Rb-86		1.8603E-02	2.2863E-10	1.6010E+15	6.8831E+08
Rb-88		7.8414E+00	6.4957E-11	4.4452E+14	2.9013E+11
I-131		8.4487E+00	6.8149E-08	3.1328E+17	3.1260E+11
I-132		1.1864E+01	1.1494E-09	5.2439E+15	4.3898E+11
I-133		1.7400E+01	1.5360E-08	6.9549E+16	6.4379E+11
I-134		1.6840E+01	6.3125E-10	2.8369E+15	6.2307E+11
I-135		1.6179E+01	4.6070E-09	2.0551E+16	5.9862E+11
Xe-133		6.2285E+01	3.3275E-07	1.5067E+18	2.3045E+12
Xe-133m		1.9101E+00	4.3386E-09	1.9645E+16	7.0673E+10
Xe-135		2.6745E+01	1.0473E-08	4.6718E+16	9.8957E+11
Xe-135m		1.0918E+01	1.1994E-10	5.3503E+14	4.0398E+11
Xe-138		2.9536E+01	3.0782E-10	1.3433E+15	1.0928E+12
Cs-134		1.8609E+00	1.4383E-06	6.4640E+18	6.8855E+10
Cs-136		5.6751E-01	7.7433E-09	3.4288E+16	2.0998E+10
Cs-137		1.4448E+00	1.6610E-05	7.3013E+19	5.3456E+10

Environment Transport Group Inventory:

	Total	Release	
Time (h) =	0.3333	Release	Rate/s
Noble gases (atoms)	1.0806E+19	9.0058E+15	
Elemental I (atoms)	3.5450E+16	2.9544E+13	
Organic I (atoms)	2.1928E+15	1.8275E+12	
Aerosols (kg)	1.8138E-05	1.5116E-08	
Dose Effective (Ci) I-131 (Thyroid)		1.1901E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.5161E+01	
Total I (Ci)		7.0732E+01	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Transported
Noble gases (atoms)	0.0000E+00	1.0793E+19
Elemental I (atoms)	3.5415E+16	3.5415E+16
Organic I (atoms)	0.0000E+00	2.1906E+15
Aerosols (kg)	4.9164E-05	1.8138E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) =	0.3333	Transported
Noble gases (atoms)	0.0000E+00	6.4206E+15

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Elemental I (atoms)	2.1043E+13	2.1043E+13
Organic I (atoms)	0.0000E+00	1.3016E+12
Aerosols (kg)	3.9905E-08	1.3212E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0109E+16
Elemental I (atoms)	3.2794E+13	3.7774E+11
Organic I (atoms)	2.0285E+12	2.3365E+10
Aerosols (kg)	1.6776E-08	1.9315E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8742E+15
Elemental I (atoms)	0.0000E+00	6.1498E+12
Organic I (atoms)	0.0000E+00	3.8040E+11
Aerosols (kg)	0.0000E+00	3.1459E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	3.2774E+14	0.0000E+00
Elemental I (atoms)	1.7941E+11	0.0000E+00
Organic I (atoms)	1.1098E+10	0.0000E+00
Aerosols (kg)	9.1887E-11	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.6540E+15
Elemental I (atoms)	2.1808E+13	2.1808E+13
Organic I (atoms)	0.0000E+00	1.3490E+12
Aerosols (kg)	4.1327E-08	1.6597E-10

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	4.2610E-03	2.0991E-13	1.5230E+12	6.8293E+10
Kr-85m	1.0318E-02	1.2538E-12	8.8829E+12	1.6231E+11
Kr-85	5.4916E-04	1.4010E-09	9.9262E+15	8.5256E+09
Kr-87	1.8277E-02	6.4526E-13	4.4665E+12	2.9736E+11
Kr-88	2.7454E-02	2.1895E-12	1.4983E+13	4.3518E+11
Rb-86	3.2905E-06	4.0440E-14	2.8318E+11	5.1991E+07
Rb-88	7.2757E-03	6.0271E-14	4.1246E+11	8.6809E+10
I-131	1.4941E-03	1.2052E-11	5.5401E+13	2.3610E+10
I-132	2.0330E-03	1.9696E-13	8.9856E+11	3.2697E+10
I-133	3.0673E-03	2.7077E-12	1.2260E+13	4.8596E+10
I-134	2.7337E-03	1.0248E-13	4.6054E+11	4.6315E+10
I-135	2.8304E-03	8.0596E-13	3.5952E+12	4.5123E+10
Xe-133	6.7146E-02	3.5872E-10	1.6243E+15	1.0426E+12
Xe-133m	2.0576E-03	4.6736E-12	2.1162E+13	3.1957E+10
Xe-135	2.8714E-02	1.1244E-11	5.0158E+13	4.4408E+11
Xe-135m	9.0211E-03	9.9097E-14	4.4206E+11	1.5639E+11
Xe-138	2.2709E-02	2.3667E-13	1.0328E+12	4.6067E+11
Cs-134	3.2921E-04	2.5445E-10	1.1435E+15	5.2010E+09
Cs-136	1.0037E-04	1.3695E-12	6.0644E+12	1.5860E+09
Cs-137	2.5559E-04	2.9384E-09	1.2917E+16	4.0379E+09

CR Transport Group Inventory:

Time (h) = 0.3333	Atmosphere	Sump
Noble gases (atoms)	1.1653E+16	0.0000E+00
Elemental I (atoms)	6.2563E+12	0.0000E+00
Organic I (atoms)	3.8699E+11	0.0000E+00
Aerosols (kg)	3.2088E-09	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.9478E-13
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.4742E-13
Total I (Ci)		1.2159E-02

	Deposition	Recirculating
Time (h) = 0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.4910E+10

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Organic I (atoms)	0.0000E+00	4.6336E+09
Aerosols (kg)	0.0000E+00	3.8366E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0109E+16
Elemental I (atoms)	3.2794E+13	3.7774E+11
Organic I (atoms)	2.0285E+12	2.3365E+10
Aerosols (kg)	1.6776E-08	1.9315E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8742E+15
Elemental I (atoms)	0.0000E+00	6.1498E+12
Organic I (atoms)	0.0000E+00	3.8040E+11
Aerosols (kg)	0.0000E+00	3.1459E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	3.2774E+14	0.0000E+00
Elemental I (atoms)	1.7941E+11	0.0000E+00
Organic I (atoms)	1.1098E+10	0.0000E+00
Aerosols (kg)	9.1887E-11	0.0000E+00

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6976E-03	2.1796E-01	1.2796E-02
Accumulated dose (rem)	8.9481E-03	7.5868E-01	4.0680E-02

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0337E-04	2.9672E-02	1.7420E-03
Accumulated dose (rem)	1.2181E-03	1.0328E-01	5.5380E-03

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3122E-04	5.4947E-02	2.4479E-03
Accumulated dose (rem)	1.9764E-04	8.5434E-02	3.7953E-03

Environment Integral Nuclide Release:

Time (h) = 0.5000	Ci	kg	Atoms	Bq
Kr-83m	8.8953E+00	4.3821E-10	3.1795E+15	3.2913E+11
Kr-85m	2.1547E+01	2.6182E-09	1.8550E+16	7.9723E+11
Kr-85	1.1475E+00	2.9276E-06	2.0741E+19	4.2458E+10
Kr-87	3.8166E+01	1.3474E-09	9.3266E+15	1.4121E+12
Kr-88	5.7320E+01	4.5712E-09	3.1283E+16	2.1208E+12
Rb-86	2.6030E-02	3.1991E-10	2.2401E+15	9.6311E+08
Rb-88	1.1791E+01	9.7679E-11	6.6845E+14	4.3628E+11
I-131	1.1862E+01	9.5683E-08	4.3986E+17	4.3890E+11
I-132	1.6583E+01	1.6066E-09	7.3296E+15	6.1358E+11
I-133	2.4394E+01	2.1534E-08	9.7504E+16	9.0257E+11
I-134	2.2780E+01	8.5392E-10	3.8376E+15	8.4286E+11
I-135	2.2603E+01	6.4362E-09	2.8711E+16	8.3632E+11
Xe-133	1.4036E+02	7.4988E-07	3.3954E+18	5.1935E+12
Xe-133m	4.3035E+00	9.7750E-09	4.4260E+16	1.5923E+11
Xe-135	6.0681E+01	2.3762E-08	1.0600E+17	2.2452E+12
Xe-135m	2.2165E+01	2.4349E-10	1.0861E+15	8.2011E+11
Xe-138	4.9788E+01	5.1888E-10	2.2643E+15	1.8422E+12
Cs-134	2.6041E+00	2.0127E-06	9.0453E+18	9.6351E+10
Cs-136	7.9406E-01	1.0834E-08	4.7975E+16	2.9380E+10
Cs-137	2.0217E+00	2.3243E-05	1.0217E+20	7.4804E+10

Environment Transport Group Inventory:

	Total	Release
Time (h) = 0.5000	Release	Rate/s
Noble gases (atoms)	2.4353E+19	1.3529E+16
Elemental I (atoms)	4.9700E+16	2.7611E+13

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Organic I (atoms)	4.9311E+15	2.7395E+12	
Aerosols (kg)	2.5381E-05	1.4101E-08	
Dose Effective (Ci) I-131 (Thyroid)			1.6698E+01
Dose Effective (Ci) I-131 (ICRP2 Thyroid)			2.1250E+01
Total I (Ci)			9.8222E+01

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4288E+19
Elemental I (atoms)	4.9507E+16	4.9507E+16
Organic I (atoms)	0.0000E+00	4.9189E+15
Aerosols (kg)	6.8793E-05	2.5379E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2156E+16
Elemental I (atoms)	9.9448E+13	9.9448E+13
Organic I (atoms)	0.0000E+00	6.5011E+12
Aerosols (kg)	1.8911E-07	6.2612E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2797E+16
Elemental I (atoms)	4.6010E+13	5.1123E+11
Organic I (atoms)	4.5681E+12	4.9017E+10
Aerosols (kg)	2.3492E-08	2.6099E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2238E+15
Elemental I (atoms)	0.0000E+00	8.6219E+12
Organic I (atoms)	0.0000E+00	8.5544E+11
Aerosols (kg)	0.0000E+00	4.4021E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	1.0976E+15	0.0000E+00
Elemental I (atoms)	5.0286E+11	0.0000E+00
Organic I (atoms)	3.6469E+10	0.0000E+00
Aerosols (kg)	2.5785E-10	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3335E+16
Elemental I (atoms)	1.0310E+14	1.0310E+14
Organic I (atoms)	0.0000E+00	6.7396E+12
Aerosols (kg)	1.9591E-07	7.8680E-10

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	8.9069E-03	4.3878E-13	3.1836E+12	2.1536E+11
Kr-85m	2.2366E-02	2.7178E-12	1.9255E+13	5.2575E+11
Kr-85	1.2215E-03	3.1163E-09	2.2079E+16	2.8153E+10
Kr-87	3.7124E-02	1.3106E-12	9.0720E+12	9.1816E+11
Kr-88	5.8632E-02	4.6759E-12	3.1999E+13	1.3942E+12
Rb-86	4.4059E-06	5.4149E-14	3.7917E+11	1.4265E+08

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Rb-88	1.9267E-02	1.5961E-13	1.0923E+12	3.5841E+11
I-131	2.0073E-03	1.6191E-11	7.4432E+13	6.4835E+10
I-132	2.6272E-03	2.5452E-13	1.1612E+12	8.7704E+10
I-133	4.1005E-03	3.6197E-12	1.6390E+13	1.3301E+11
I-134	3.2211E-03	1.2075E-13	5.4265E+11	1.1683E+11
I-135	3.7389E-03	1.0647E-12	4.7493E+12	1.2254E+11
Xe-133	1.4929E-01	7.9758E-10	3.6114E+15	3.4419E+12
Xe-133m	4.5718E-03	1.0384E-11	4.7020E+13	1.0546E+11
Xe-135	6.4106E-02	2.5103E-11	1.1198E+14	1.4734E+12
Xe-135m	1.5690E-02	1.7236E-13	7.6887E+11	4.4209E+11
Xe-138	3.1000E-02	3.2308E-13	1.4099E+12	1.0829E+12
Cs-134	4.4093E-04	3.4079E-10	1.5316E+15	1.4272E+10
Cs-136	1.3439E-04	1.8336E-12	8.1192E+12	4.3513E+09
Cs-137	3.4232E-04	3.9356E-09	1.7300E+16	1.1081E+10

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	2.5915E+16	0.0000E+00	
Elemental I (atoms)	8.3751E+12	0.0000E+00	
Organic I (atoms)	8.4946E+11	0.0000E+00	
Aerosols (kg)	4.2976E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.6110E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3035E-13	
Total I (Ci)		1.5695E-02	

	Deposition	Recirculating
Time (h) =	0.5000	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.1000E+11
Organic I (atoms)	0.0000E+00	1.5230E+10
Aerosols (kg)	0.0000E+00	1.0768E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2797E+16
Elemental I (atoms)	4.6010E+13	5.1123E+11
Organic I (atoms)	4.5681E+12	4.9017E+10
Aerosols (kg)	2.3492E-08	2.6099E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2238E+15
Elemental I (atoms)	0.0000E+00	8.6219E+12
Organic I (atoms)	0.0000E+00	8.5544E+11
Aerosols (kg)	0.0000E+00	4.4021E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	1.0976E+15	0.0000E+00
Elemental I (atoms)	5.0286E+11	0.0000E+00
Organic I (atoms)	3.6469E+10	0.0000E+00
Aerosols (kg)	2.5785E-10	0.0000E+00

EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.3440E-02	4.3467E-01	5.4388E-02
Accumulated dose (rem)		4.2389E-02	1.1933E+00	9.5069E-02

LPZ Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.5524E-03	5.9173E-02	7.4041E-03
Accumulated dose (rem)		5.7705E-03	1.6246E-01	1.2942E-02

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6336E-03	2.1446E-01	1.1267E-02
Accumulated dose (rem)		1.8313E-03	2.9989E-01	1.5063E-02

Environment Integral Nuclide Release:

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Time (h) = 1.0000	Ci	kg	Atoms	Bq
Kr-83m	7.1131E+01	3.5041E-09	2.5424E+16	2.6318E+12
Kr-85m	1.8890E+02	2.2954E-08	1.6262E+17	6.9892E+12
Kr-85	1.0747E+01	2.7418E-05	1.9425E+20	3.9764E+11
Kr-87	2.8403E+02	1.0027E-08	6.9409E+16	1.0509E+13
Kr-88	4.8384E+02	3.8586E-08	2.6406E+17	1.7902E+13
Rb-86	3.7204E-02	4.5724E-10	3.2018E+15	1.3766E+09
Rb-88	3.5987E+01	2.9811E-10	2.0401E+15	1.3315E+12
Sr-89	5.5728E-01	1.9182E-08	1.2980E+17	2.0620E+10
Sr-90	5.9643E-02	4.3724E-07	2.9257E+18	2.2068E+09
Sr-91	6.4933E-01	1.7913E-10	1.1854E+15	2.4025E+10
Sr-92	5.8355E-01	4.6426E-11	3.0390E+14	2.1591E+10
Y-90	6.5236E-04	1.1990E-12	8.0231E+12	2.4137E+07
Y-91	6.9911E-03	2.8507E-10	1.8865E+15	2.5867E+08
Y-92	1.3281E-02	1.3803E-12	9.0349E+12	4.9141E+08
Y-93	7.3910E-03	2.2153E-12	1.4345E+13	2.7347E+08
Zr-95	8.2466E-03	3.8387E-10	2.4334E+15	3.0513E+08
Zr-97	7.7082E-03	4.0322E-12	2.5033E+13	2.8520E+08
Nb-95	8.1361E-03	2.0807E-10	1.3190E+15	3.0104E+08
Mo-99	1.0329E-01	2.1535E-10	1.3100E+15	3.8216E+09
Tc-99m	9.1733E-02	1.7446E-11	1.0612E+14	3.3941E+09
Ru-103	9.0102E-02	2.7918E-09	1.6323E+16	3.3338E+09
Ru-105	5.6894E-02	8.4639E-12	4.8543E+13	2.1051E+09
Ru-106	3.7477E-02	1.1202E-08	6.3642E+16	1.3867E+09
Rh-105	5.9774E-02	7.0817E-11	4.0616E+14	2.2116E+09
Sb-127	1.0312E-01	3.8616E-10	1.8311E+15	3.8156E+09
Sb-129	2.8298E-01	5.0322E-11	2.3492E+14	1.0470E+10
Te-127	1.0248E-01	3.8833E-11	1.8414E+14	3.7919E+09
Te-127m	1.7545E-02	1.8600E-09	8.8199E+15	6.4915E+08
Te-129	2.8858E-01	1.3780E-11	6.4329E+13	1.0678E+10
Te-129m	5.7542E-02	1.9101E-09	8.9169E+15	2.1290E+09
Te-131m	2.1411E-01	2.6851E-10	1.2343E+15	7.9220E+09
Te-132	1.5533E+00	5.1163E-09	2.3342E+16	5.7471E+10
I-131	1.8456E+01	1.4887E-07	6.8434E+17	6.8285E+11
I-132	2.5993E+01	2.5182E-09	1.1489E+16	9.6175E+11
I-133	3.7754E+01	3.3327E-08	1.5090E+17	1.3969E+12
I-134	3.1435E+01	1.1784E-09	5.2957E+15	1.1631E+12
I-135	3.4559E+01	9.8407E-09	4.3898E+16	1.2787E+12
Xe-133	1.3134E+03	7.0169E-06	3.1772E+19	4.8597E+13
Xe-133m	4.0211E+01	9.1336E-08	4.1356E+17	1.4878E+12
Xe-135	5.7591E+02	2.2552E-07	1.0060E+18	2.1309E+13
Xe-135m	1.3023E+02	1.4306E-09	6.3818E+15	4.8186E+12
Xe-138	1.5319E+02	1.5965E-09	6.9668E+15	5.6679E+12
Cs-134	3.7228E+00	2.8774E-06	1.2931E+19	1.3774E+11
Cs-136	1.1348E+00	1.5484E-08	6.8564E+16	4.1989E+10
Cs-137	2.8903E+00	3.3228E-05	1.4606E+20	1.0694E+11
Ba-139	5.7137E-01	3.4931E-11	1.5134E+14	2.1141E+10
Ba-140	8.1865E-01	1.1182E-08	4.8101E+16	3.0290E+10
La-140	9.0448E-03	1.6273E-11	6.9998E+13	3.3466E+08
La-141	6.7140E-03	1.1872E-12	5.0705E+12	2.4842E+08
La-142	5.3344E-03	3.7264E-13	1.5804E+12	1.9737E+08
Ce-141	1.9366E-02	6.7968E-10	2.9029E+15	7.1655E+08
Ce-143	1.8576E-02	2.7972E-11	1.1780E+14	6.8731E+08
Ce-144	1.5517E-02	4.8651E-09	2.0346E+16	5.7414E+08
Pr-143	7.3920E-03	1.0977E-10	4.6229E+14	2.7350E+08
Nd-147	3.0084E-03	3.7187E-11	1.5235E+14	1.1131E+08
Np-239	2.1873E-01	9.4284E-10	2.3757E+15	8.0930E+09
Pu-238	4.8217E-05	2.8165E-09	7.1266E+15	1.7840E+06
Pu-239	4.8628E-06	7.8234E-08	1.9713E+17	1.7992E+05
Pu-240	8.5899E-06	3.7714E-09	9.4634E+15	3.1783E+05
Pu-241	1.9084E-03	1.9298E-08	4.8222E+16	7.0611E+07
Am-241	1.0795E-06	3.1511E-10	7.8741E+14	3.9943E+04
Cm-242	2.9655E-04	8.9587E-11	2.2294E+14	1.0972E+07
Cm-244	1.9611E-05	2.3959E-10	5.9133E+14	7.2560E+05

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 1.0000	Release	Rate/s	
Noble gases (atoms)	2.2798E+20	6.3328E+16	
Elemental I (atoms)	7.7120E+16	2.1422E+13	
Organic I (atoms)	2.3010E+16	6.3917E+12	
Aerosols (kg)	3.6900E-05	1.0250E-08	
Dose Effective (Ci) I-131 (Thyroid)		2.5926E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		3.2895E+01	
Total I (Ci)		1.4820E+02	

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DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	0.0000E+00	2.2662E+20
Elemental I (atoms)	7.5367E+16	7.5367E+16
Organic I (atoms)	0.0000E+00	2.2803E+16
Aerosols (kg)	9.9986E-05	3.6887E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	0.0000E+00	6.6896E+17
Elemental I (atoms)	8.6812E+14	8.6812E+14
Organic I (atoms)	0.0000E+00	1.0413E+14
Aerosols (kg)	1.6475E-06	5.4549E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	0.0000E+00	2.1351E+17
Elemental I (atoms)	7.1440E+13	7.6810E+11
Organic I (atoms)	2.1334E+13	2.1837E+11
Aerosols (kg)	3.4172E-08	3.6887E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	0.0000E+00	3.9542E+16
Elemental I (atoms)	0.0000E+00	1.3379E+13
Organic I (atoms)	0.0000E+00	3.9917E+12
Aerosols (kg)	0.0000E+00	6.4000E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	1.4422E+16	0.0000E+00
Elemental I (atoms)	1.7524E+12	0.0000E+00
Organic I (atoms)	3.0091E+11	0.0000E+00
Aerosols (kg)	8.7736E-10	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	
Noble gases (atoms)	0.0000E+00	6.9396E+17
Elemental I (atoms)	9.0110E+14	9.0110E+14
Organic I (atoms)	0.0000E+00	1.0804E+14
Aerosols (kg)	1.7090E-06	6.8633E-09

CR Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
Kr-83m		6.8079E-02	3.3538E-12	2.4334E+13	2.3997E+12
Kr-85m		1.9064E-01	2.3165E-11	1.6412E+14	6.4189E+12
Kr-85		1.1249E-02	2.8699E-08	2.0333E+17	3.6698E+11
Kr-87		2.6032E-01	9.1901E-12	6.3614E+13	9.5245E+12
Kr-88		4.7791E-01	3.8113E-11	2.6082E+14	1.6393E+13
Rb-86		5.5538E-06	6.8255E-14	4.7796E+11	4.7569E+08
Rb-88		1.8520E-01	1.5341E-12	1.0499E+13	5.3350E+12
Sr-89		9.4017E-05	3.2361E-12	2.1897E+13	2.9887E+09
Sr-90		1.0063E-05	7.3774E-11	4.9364E+14	3.1988E+08
Sr-91		1.0779E-04	2.9735E-14	1.9678E+11	3.4658E+09
Sr-92		9.2956E-05	7.3954E-15	4.8409E+10	3.0770E+09
Y-90		1.3338E-07	2.4515E-16	1.6404E+09	3.9485E+06

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Y-91	1.1843E-06	4.8293E-14	3.1959E+11	3.7588E+07
Y-92	6.1304E-06	6.3711E-16	4.1704E+09	1.4900E+08
Y-93	1.2281E-06	3.6810E-16	2.3836E+09	3.9461E+07
Zr-95	1.3913E-06	6.4762E-14	4.1054E+11	4.4227E+07
Zr-97	1.2887E-06	6.7414E-16	4.1853E+09	4.1229E+07
Nb-95	1.3728E-06	3.5107E-14	2.2254E+11	4.3635E+07
Mo-99	1.7386E-05	3.6250E-14	2.2051E+11	5.5356E+08
Tc-99m	1.5474E-05	2.9428E-15	1.7901E+10	4.9167E+08
Ru-103	1.5200E-05	4.7097E-13	2.7536E+12	4.8321E+08
Ru-105	9.2697E-06	1.3790E-15	7.9091E+09	3.0200E+08
Ru-106	6.3233E-06	1.8900E-12	1.0738E+13	2.0100E+08
Rh-105	1.0083E-05	1.1946E-14	6.8513E+10	3.2053E+08
Sb-127	1.7371E-05	6.5046E-14	3.0844E+11	5.5280E+08
Sb-129	4.6060E-05	8.1909E-15	3.8238E+10	1.5017E+09
Te-127	1.7290E-05	6.5514E-15	3.1066E+10	5.4943E+08
Te-127m	2.9603E-06	3.1383E-13	1.4881E+12	9.4096E+07
Te-129	4.7936E-05	2.2890E-15	1.0686E+10	1.5368E+09
Te-129m	9.7090E-06	3.2229E-13	1.5045E+12	3.0861E+08
Te-131m	3.5940E-05	4.5072E-14	2.0720E+11	1.1466E+09
Te-132	2.6156E-04	8.6155E-13	3.9306E+12	8.3257E+09
I-131	2.7819E-03	2.2439E-11	1.0315E+14	2.2438E+11
I-132	3.3817E-03	3.2762E-13	1.4947E+12	2.8797E+11
I-133	5.5982E-03	4.9419E-12	2.2376E+13	4.5637E+11
I-134	3.0114E-03	1.1288E-13	5.0731E+11	3.2618E+11
I-135	4.9252E-03	1.4025E-12	6.2561E+12	4.1190E+11
Xe-133	1.3731E+00	7.3357E-09	3.3216E+16	4.4821E+13
Xe-133m	4.1966E-02	9.5323E-11	4.3162E+14	1.3711E+12
Xe-135	5.9470E-01	2.3288E-10	1.0388E+15	1.9380E+13
Xe-135m	7.4872E-02	8.2248E-13	3.6689E+12	3.3564E+12
Xe-138	6.6008E-02	6.8792E-13	3.0020E+12	4.5680E+12
Cs-134	5.5622E-04	4.2990E-10	1.9320E+15	4.7615E+10
Cs-136	1.6934E-04	2.3105E-12	1.0231E+13	1.4508E+10
Cs-137	4.3184E-04	4.9647E-09	2.1823E+16	3.6967E+10
Ba-139	8.6000E-05	5.2577E-15	2.2779E+10	2.9627E+09
Ba-140	1.3806E-04	1.8858E-12	8.1119E+12	4.3899E+09
La-140	2.0339E-06	3.6593E-15	1.5741E+10	5.8312E+07
La-141	1.0889E-06	1.9254E-16	8.2236E+08	3.5590E+07
La-142	8.1286E-07	5.6784E-17	2.4082E+08	2.7761E+07
Ce-141	3.2672E-06	1.1466E-13	4.8973E+11	1.0386E+08
Ce-143	3.1196E-06	4.6976E-15	1.9783E+10	9.9488E+07
Ce-144	2.6181E-06	8.2086E-13	3.4329E+12	8.3222E+07
Pr-143	1.2481E-06	1.8535E-14	7.8054E+10	3.9661E+07
Nd-147	5.0730E-07	6.2708E-15	2.5690E+10	1.6132E+07
Np-239	3.6805E-05	1.5865E-13	3.9975E+11	1.1721E+09
Pu-238	8.1355E-09	4.7522E-13	1.2024E+12	2.5860E+05
Pu-239	8.2050E-10	1.3201E-11	3.3262E+13	2.6080E+04
Pu-240	1.4493E-09	6.3634E-13	1.5967E+12	4.6069E+04
Pu-241	3.2200E-07	3.2561E-12	8.1363E+12	1.0235E+07
Am-241	1.8216E-10	5.3172E-14	1.3287E+11	5.7899E+03
Cm-242	5.0034E-08	1.5115E-14	3.7614E+10	1.5905E+06
Cm-244	3.3089E-09	4.0425E-14	9.9773E+10	1.0518E+05

CR Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)	2.3853E+17	0.0000E+00	
Elemental I (atoms)	1.1516E+13	0.0000E+00	
Organic I (atoms)	3.7588E+12	0.0000E+00	
Aerosols (kg)	5.5263E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.5959E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.5059E-13	
Total I (Ci)		1.9698E-02	

	Deposition	Recirculating
Time (h) =	1.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.3188E+11
Organic I (atoms)	0.0000E+00	1.2567E+11
Aerosols (kg)	0.0000E+00	3.6642E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.1351E+17
Elemental I (atoms)	7.1440E+13	7.6810E+11
Organic I (atoms)	2.1334E+13	2.1837E+11
Aerosols (kg)	3.4172E-08	3.6887E-10

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CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9542E+16
Elemental I (atoms)	0.0000E+00	1.3379E+13
Organic I (atoms)	0.0000E+00	3.9917E+12
Aerosols (kg)	0.0000E+00	6.4000E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	1.4422E+16	0.0000E+00
Elemental I (atoms)	1.7524E+12	0.0000E+00
Organic I (atoms)	3.0091E+11	0.0000E+00
Aerosols (kg)	8.7736E-10	0.0000E+00

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6654E-01	9.6314E-01	2.1242E-01
Accumulated dose (rem)	2.0893E-01	2.1565E+00	3.0749E-01

LPZ Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2671E-02	1.3112E-01	2.8918E-02
Accumulated dose (rem)	2.8442E-02	2.9357E-01	4.1860E-02

CR Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9328E-02	6.3481E-01	5.5984E-02
Accumulated dose (rem)	2.1160E-02	9.3471E-01	7.1047E-02

Environment Integral Nuclide Release:

Time (h) = 2.0000	Ci	kg	Atoms	Bq
Kr-83m	3.8130E+02	1.8784E-08	1.3629E+17	1.4108E+13
Kr-85m	1.1808E+03	1.4348E-07	1.0165E+18	4.3688E+13
Kr-85	7.5204E+01	1.9186E-04	1.3593E+21	2.7826E+12
Kr-87	1.3546E+03	4.7823E-08	3.3103E+17	5.0121E+13
Kr-88	2.8376E+03	2.2630E-07	1.5486E+18	1.0499E+14
Rb-86	5.9786E-02	7.3477E-10	5.1452E+15	2.2121E+09
Rb-88	6.5393E+02	5.4171E-09	3.7071E+16	2.4196E+13
Sr-89	1.7974E+00	6.1869E-08	4.1863E+17	6.6505E+10
Sr-90	1.9243E-01	1.4107E-06	9.4392E+18	7.1198E+09
Sr-91	2.0159E+00	5.5612E-10	3.6803E+15	7.4589E+10
Sr-92	1.6520E+00	1.3143E-10	8.6030E+14	6.1123E+10
Y-90	2.2370E-03	4.1116E-12	2.7512E+13	8.2767E+07
Y-91	2.2577E-02	9.2062E-10	6.0924E+15	8.3536E+08
Y-92	5.9530E-02	6.1866E-12	4.0496E+13	2.2026E+09
Y-93	2.2998E-02	6.8933E-12	4.4637E+13	8.5094E+08
Zr-95	2.6600E-02	1.2382E-09	7.8490E+15	9.8420E+08
Zr-97	2.4335E-02	1.2730E-11	7.9030E+13	9.0038E+08
Nb-95	2.6250E-02	6.7129E-10	4.2554E+15	9.7124E+08
Mo-99	3.3137E-01	6.9092E-10	4.2028E+15	1.2261E+10
Tc-99m	2.9580E-01	5.6254E-11	3.4219E+14	1.0945E+10
Ru-103	2.9058E-01	9.0037E-09	5.2642E+16	1.0752E+10
Ru-105	1.6925E-01	2.5179E-11	1.4441E+14	6.2624E+09
Ru-106	1.2091E-01	3.6140E-08	2.0532E+17	4.4736E+09
Rh-105	1.9263E-01	2.2822E-10	1.3089E+15	7.1274E+09
Sb-127	3.3138E-01	1.2409E-09	5.8841E+15	1.2261E+10
Sb-129	8.3999E-01	1.4937E-10	6.9732E+14	3.1080E+10
Te-127	3.3056E-01	1.2525E-10	5.9393E+14	1.2231E+10
Te-127m	5.6605E-02	6.0010E-09	2.8456E+16	2.0944E+09
Te-129	8.9634E-01	4.2801E-11	1.9981E+14	3.3165E+10
Te-129m	1.8565E-01	6.1626E-09	2.8769E+16	6.8690E+09
Te-131m	6.8236E-01	8.5572E-10	3.9338E+15	2.5247E+10
Te-132	4.9878E+00	1.6429E-08	7.4953E+16	1.8455E+11
I-131	3.3190E+01	2.6772E-07	1.2307E+18	1.2280E+12
I-132	4.6434E+01	4.4984E-09	2.0523E+16	1.7180E+12
I-133	6.6901E+01	5.9058E-08	2.6741E+17	2.4753E+12
I-134	4.1964E+01	1.5731E-09	7.0696E+15	1.5527E+12
I-135	5.9207E+01	1.6859E-08	7.5206E+16	2.1906E+12
Xe-133	9.1709E+03	4.8995E-05	2.2184E+20	3.3932E+14
Xe-133m	2.7984E+02	6.3564E-07	2.8781E+18	1.0354E+13

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Xe-135	4.0196E+03	1.5740E-06	7.0214E+18	1.4872E+14
Xe-135m	4.1809E+02	4.5927E-09	2.0487E+16	1.5469E+13
Xe-138	2.3692E+02	2.4691E-09	1.0775E+16	8.7660E+12
Cs-134	5.9863E+00	4.6268E-06	2.0793E+19	2.2149E+11
Cs-136	1.8231E+00	2.4875E-08	1.1015E+17	6.7456E+10
Cs-137	4.6476E+00	5.3432E-05	2.3487E+20	1.7196E+11
Ba-139	1.4409E+00	8.8089E-11	3.8165E+14	5.3312E+10
Ba-140	2.6380E+00	3.6034E-08	1.5500E+17	9.7607E+10
La-140	3.2064E-02	5.7686E-11	2.4814E+14	1.1864E+09
La-141	1.9770E-02	3.4958E-12	1.4931E+13	7.3149E+08
La-142	1.3780E-02	9.6261E-13	4.0824E+12	5.0985E+08
Ce-141	6.2475E-02	2.1926E-09	9.3646E+15	2.3116E+09
Ce-143	5.9266E-02	8.9245E-11	3.7584E+14	2.1929E+09
Ce-144	5.0061E-02	1.5696E-08	6.5640E+16	1.8523E+09
Pr-143	2.3854E-02	3.5423E-10	1.4918E+15	8.8259E+08
Nd-147	9.6925E-03	1.1981E-10	4.9083E+14	3.5862E+08
Np-239	7.0110E-01	3.0221E-09	7.6149E+15	2.5941E+10
Pu-238	1.5557E-04	9.0869E-09	2.2993E+16	5.7559E+06
Pu-239	1.5690E-05	2.5243E-07	6.3605E+17	5.8053E+05
Pu-240	2.7714E-05	1.2168E-08	3.0532E+16	1.0254E+06
Pu-241	6.1571E-03	6.2261E-08	1.5558E+17	2.2781E+08
Am-241	3.4832E-06	1.0167E-09	2.5407E+15	1.2888E+05
Cm-242	9.5669E-04	2.8901E-10	7.1920E+14	3.5397E+07
Cm-244	6.3271E-05	7.7299E-10	1.9078E+15	2.3410E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 2.0000	Release	Rate/s	
Noble gases (atoms)	1.5941E+21	2.2141E+17	
Elemental I (atoms)	1.3931E+17	1.9349E+13	
Organic I (atoms)	1.0979E+17	1.5249E+13	
Aerosols (kg)	6.0334E-05	8.3798E-09	
Dose Effective (Ci) I-131 (Thyroid)		4.6359E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		5.8388E+01	
Total I (Ci)		2.4770E+02	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5527E+21
Elemental I (atoms)	1.2800E+17	1.2800E+17
Organic I (atoms)	0.0000E+00	1.0628E+17
Aerosols (kg)	1.6332E-04	6.0252E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0435E+19
Elemental I (atoms)	5.6104E+15	5.6104E+15
Organic I (atoms)	0.0000E+00	1.7983E+15
Aerosols (kg)	1.0420E-05	3.4499E-08

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4932E+18
Elemental I (atoms)	1.2921E+14	1.3517E+12
Organic I (atoms)	1.0194E+14	1.0326E+12
Aerosols (kg)	5.5897E-08	5.8831E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7653E+17

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Elemental I (atoms)	0.0000E+00	2.4185E+13
Organic I (atoms)	0.0000E+00	1.9070E+13
Aerosols (kg)	0.0000E+00	1.0464E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	2.1632E+17	0.0000E+00
Elemental I (atoms)	5.4158E+12	0.0000E+00
Organic I (atoms)	2.6431E+12	0.0000E+00
Aerosols (kg)	2.5300E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1227E+19
Elemental I (atoms)	5.8362E+15	5.8362E+15
Organic I (atoms)	0.0000E+00	1.8687E+15
Aerosols (kg)	1.0832E-05	4.3503E-08

CR Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	3.0548E-01	1.5049E-11	1.0919E+14	2.8632E+13
Kr-85m	1.0637E+00	1.2925E-10	9.1575E+14	9.0350E+13
Kr-85	7.3271E-02	1.8693E-07	1.3244E+18	5.8225E+12
Kr-87	9.8309E-01	3.4707E-11	2.4024E+14	1.0001E+14
Kr-88	2.4387E+00	1.9449E-10	1.3309E+15	2.1553E+14
Rb-86	7.3488E-06	9.0316E-14	6.3243E+11	1.3540E+09
Rb-88	1.7859E+00	1.4794E-11	1.0124E+14	9.8346E+13
Sr-89	2.5633E-04	8.8232E-12	5.9702E+13	2.8038E+10
Sr-90	2.7453E-05	2.0126E-10	1.3467E+15	3.0020E+09
Sr-91	2.7336E-04	7.5410E-14	4.9904E+11	3.1030E+10
Sr-92	1.9636E-04	1.5622E-14	1.0226E+11	2.4547E+10
Y-90	5.0343E-07	9.2532E-16	6.1915E+09	4.5327E+07
Y-91	3.2569E-06	1.3280E-13	8.7886E+11	3.5433E+08
Y-92	3.2672E-05	3.3954E-15	2.2226E+10	2.4591E+09
Y-93	3.1281E-06	9.3759E-16	6.0713E+09	3.5429E+08
Zr-95	3.7938E-06	1.7659E-13	1.1195E+12	4.1495E+08
Zr-97	3.3744E-06	1.7652E-15	1.0959E+10	3.7680E+08
Nb-95	3.7450E-06	9.5772E-14	6.0711E+11	4.0950E+08
Mo-99	4.6935E-05	9.7860E-14	5.9528E+11	5.1598E+09
Tc-99m	4.2164E-05	8.0187E-15	4.8778E+10	4.5901E+09
Ru-103	4.1436E-05	1.2839E-12	7.5065E+12	4.5327E+09
Ru-105	2.1633E-05	3.2182E-15	1.8458E+10	2.5645E+09
Ru-106	1.7249E-05	5.1557E-12	2.9291E+13	1.8862E+09
Rh-105	2.7427E-05	3.2495E-14	1.8637E+11	3.0018E+09
Sb-127	4.7034E-05	1.7612E-13	8.3514E+11	5.1628E+09
Sb-129	1.0703E-04	1.9033E-14	8.8850E+10	1.2717E+10
Te-127	4.7141E-05	1.7862E-14	8.4701E+10	5.1394E+09
Te-127m	8.0758E-06	8.5616E-13	4.0598E+12	8.8308E+08
Te-129	1.2102E-04	5.7789E-15	2.6978E+10	1.3482E+10
Te-129m	2.6486E-05	8.7918E-13	4.1043E+12	2.8962E+09
Te-131m	9.5807E-05	1.2015E-13	5.5233E+11	1.0601E+10
Te-132	7.0725E-04	2.3296E-12	1.0628E+13	7.7687E+10
I-131	4.2088E-03	3.3949E-11	1.5606E+14	7.0184E+11
I-132	4.6536E-03	4.5084E-13	2.0568E+12	8.4142E+11
I-133	8.2187E-03	7.2551E-12	3.2851E+13	1.4019E+12
I-134	2.0731E-03	7.7710E-14	3.4924E+11	6.7480E+11
I-135	6.7315E-03	1.9168E-12	8.5505E+12	1.2130E+12
Xe-133	8.9124E+00	4.7614E-08	2.1559E+17	7.0935E+14
Xe-133m	2.7097E-01	6.1548E-10	2.7869E+15	2.1617E+13
Xe-135	3.7908E+00	1.4844E-09	6.6218E+15	3.0485E+14
Xe-135m	1.2276E-01	1.3485E-12	6.0154E+12	2.0085E+13
Xe-138	2.2985E-02	2.3955E-13	1.0454E+12	1.1561E+13
Cs-134	7.3710E-04	5.6970E-10	2.5603E+15	1.3565E+11
Cs-136	2.2393E-04	3.0553E-12	1.3529E+13	4.1280E+10
Cs-137	5.7229E-04	6.5795E-09	2.8921E+16	1.0532E+11
Ba-139	1.4189E-04	8.6745E-15	3.7582E+10	2.0345E+10
Ba-140	3.7577E-04	5.1329E-12	2.2079E+13	4.1138E+10
La-140	8.5753E-06	1.5428E-14	6.6364E+10	7.2686E+08
La-141	2.4903E-06	4.4033E-16	1.8807E+09	2.9838E+08
La-142	1.4145E-06	9.8813E-17	4.1906E+08	1.9678E+08
Ce-141	8.9096E-06	3.1269E-13	1.3355E+12	9.7445E+08
Ce-143	8.3335E-06	1.2549E-14	5.2847E+10	9.2106E+08
Ce-144	7.1416E-06	2.2391E-12	9.3640E+12	7.8098E+08

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Pr-143	3.4099E-06	5.0638E-14	2.1325E+11	3.7249E+08
Nd-147	1.3803E-06	1.7062E-14	6.9898E+10	1.5114E+08
Np-239	9.9181E-05	4.2752E-13	1.0772E+12	1.0913E+10
Pu-238	2.2194E-08	1.2964E-12	3.2803E+12	2.4269E+06
Pu-239	2.2387E-09	3.6017E-11	9.0753E+13	2.4478E+05
Pu-240	3.9539E-09	1.7360E-12	4.3559E+12	4.3236E+05
Pu-241	8.7842E-07	8.8826E-12	2.2196E+13	9.6056E+07
Am-241	4.9704E-10	1.4509E-13	3.6255E+11	5.4345E+04
Cm-242	1.3647E-07	4.1227E-14	1.0259E+11	1.4925E+07
Cm-244	9.0267E-09	1.1028E-13	2.7218E+11	9.8707E+05

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	1.5520E+18	0.0000E+00	
Elemental I (atoms)	1.7449E+13	0.0000E+00	
Organic I (atoms)	1.6156E+13	0.0000E+00	
Aerosols (kg)	7.4814E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.3774E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.6447E-13	
Total I (Ci)		2.5886E-02	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.2619E+12
Organic I (atoms)	0.0000E+00	1.1039E+12
Aerosols (kg)	0.0000E+00	1.0567E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4932E+18
Elemental I (atoms)	1.2921E+14	1.3517E+12
Organic I (atoms)	1.0194E+14	1.0326E+12
Aerosols (kg)	5.5897E-08	5.8831E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7653E+17
Elemental I (atoms)	0.0000E+00	2.4185E+13
Organic I (atoms)	0.0000E+00	1.9070E+13
Aerosols (kg)	0.0000E+00	1.0464E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	2.1632E+17	0.0000E+00
Elemental I (atoms)	5.4158E+12	0.0000E+00
Organic I (atoms)	2.6431E+12	0.0000E+00
Aerosols (kg)	2.5300E-09	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.5902E-02	7.4149E-02	3.9069E-02
Accumulated dose (rem)		2.4483E-01	2.2306E+00	3.4656E-01

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8876E-03	1.0094E-02	5.3186E-03
Accumulated dose (rem)		3.3330E-02	3.0367E-01	4.7179E-02

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.8293E-03	1.8512E-01	2.1932E-02
Accumulated dose (rem)		2.9989E-02	1.1198E+00	9.2979E-02

Environment Integral Nuclide Release:

Time (h) =	2.2500	Ci	kg	Atoms	Bq
Kr-83m		4.4589E+02	2.1966E-08	1.5937E+17	1.6498E+13
Kr-85m		1.4141E+03	1.7183E-07	1.2174E+18	5.2320E+13

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Kr-85	9.1700E+01	2.3395E-04	1.6575E+21	3.3929E+12
Kr-87	1.5566E+03	5.4952E-08	3.8038E+17	5.7593E+13
Kr-88	3.3645E+03	2.6832E-07	1.8362E+18	1.2449E+14
Rb-86	6.0913E-02	7.4861E-10	5.2421E+15	2.2538E+09
Rb-88	7.8525E+02	6.5049E-09	4.4515E+16	2.9054E+13
Sr-89	1.8585E+00	6.3972E-08	4.3286E+17	6.8765E+10
Sr-90	1.9897E-01	1.4587E-06	9.7602E+18	7.3619E+09
Sr-91	2.0805E+00	5.7393E-10	3.7981E+15	7.6978E+10
Sr-92	1.6973E+00	1.3503E-10	8.8389E+14	6.2799E+10
Y-90	2.3224E-03	4.2685E-12	2.8562E+13	8.5927E+07
Y-91	2.3346E-02	9.5199E-10	6.3000E+15	8.6382E+08
Y-92	6.2506E-02	6.4960E-12	4.2521E+13	2.3127E+09
Y-93	2.3737E-02	7.1148E-12	4.6072E+13	8.7828E+08
Zr-95	2.7504E-02	1.2803E-09	8.1158E+15	1.0177E+09
Zr-97	2.5135E-02	1.3148E-11	8.1628E+13	9.2999E+08
Nb-95	2.7142E-02	6.9412E-10	4.4001E+15	1.0043E+09
Mo-99	3.4255E-01	7.1421E-10	4.3445E+15	1.2674E+10
Tc-99m	3.0585E-01	5.8165E-11	3.5382E+14	1.1316E+10
Ru-103	3.0046E-01	9.3096E-09	5.4431E+16	1.1117E+10
Ru-105	1.7431E-01	2.5931E-11	1.4872E+14	6.4494E+09
Ru-106	1.2502E-01	3.7369E-08	2.1230E+17	4.6257E+09
Rh-105	1.9917E-01	2.3596E-10	1.3533E+15	7.3692E+09
Sb-127	3.4258E-01	1.2828E-09	6.0830E+15	1.2676E+10
Sb-129	8.6498E-01	1.5382E-10	7.1807E+14	3.2004E+10
Te-127	3.4179E-01	1.2951E-10	6.1412E+14	1.2646E+10
Te-127m	5.8530E-02	6.2051E-09	2.9424E+16	2.1656E+09
Te-129	9.2485E-01	4.4162E-11	2.0616E+14	3.4219E+10
Te-129m	1.9196E-01	6.3721E-09	2.9747E+16	7.1026E+09
Te-131m	7.0513E-01	8.8428E-10	4.0651E+15	2.6090E+10
Te-132	5.1561E+00	1.6984E-08	7.7484E+16	1.9078E+11
I-131	3.4352E+01	2.7708E-07	1.2738E+18	1.2710E+12
I-132	4.7947E+01	4.6451E-09	2.1192E+16	1.7740E+12
I-133	6.9158E+01	6.1050E-08	2.7643E+17	2.5588E+12
I-134	4.2474E+01	1.5922E-09	7.1554E+15	1.5715E+12
I-135	6.1036E+01	1.7380E-08	7.7529E+16	2.2583E+12
Xe-133	1.1178E+04	5.9716E-05	2.7039E+20	4.1358E+14
Xe-133m	3.4087E+02	7.7426E-07	3.5058E+18	1.2612E+13
Xe-135	4.8886E+03	1.9143E-06	8.5394E+18	1.8088E+14
Xe-135m	4.5453E+02	4.9930E-09	2.2273E+16	1.6817E+13
Xe-138	2.4012E+02	2.5025E-09	1.0921E+16	8.8845E+12
Cs-134	6.0993E+00	4.7141E-06	2.1186E+19	2.2567E+11
Cs-136	1.8575E+00	2.5344E-08	1.1222E+17	6.8726E+10
Cs-137	4.7354E+00	5.4441E-05	2.3931E+20	1.7521E+11
Ba-139	1.4726E+00	9.0028E-11	3.9005E+14	5.4486E+10
Ba-140	2.7276E+00	3.7257E-08	1.6026E+17	1.0092E+11
La-140	3.3357E-02	6.0013E-11	2.5815E+14	1.2342E+09
La-141	2.0350E-02	3.5984E-12	1.5369E+13	7.5296E+08
La-142	1.4098E-02	9.8485E-13	4.1767E+12	5.2163E+08
Ce-141	6.4599E-02	2.2671E-09	9.6830E+15	2.3901E+09
Ce-143	6.1247E-02	9.2228E-11	3.8840E+14	2.2661E+09
Ce-144	5.1763E-02	1.6229E-08	6.7872E+16	1.9152E+09
Pr-143	2.4665E-02	3.6629E-10	1.5425E+15	9.1261E+08
Nd-147	1.0021E-02	1.2388E-10	5.0748E+14	3.7079E+08
Np-239	7.2471E-01	3.1238E-09	7.8712E+15	2.6814E+10
Pu-238	1.6086E-04	9.3959E-09	2.3775E+16	5.9517E+06
Pu-239	1.6224E-05	2.6101E-07	6.5768E+17	6.0028E+05
Pu-240	2.8656E-05	1.2582E-08	3.1570E+16	1.0603E+06
Pu-241	6.3665E-03	6.4378E-08	1.6087E+17	2.3556E+08
Am-241	3.6017E-06	1.0513E-09	2.6271E+15	1.3326E+05
Cm-242	9.8921E-04	2.9884E-10	7.4365E+14	3.6601E+07
Cm-244	6.5422E-05	7.9928E-10	1.9727E+15	2.4206E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 2.2500	Release	Rate/s	
Noble gases (atoms)	1.9435E+21	2.3994E+17	
Elemental I (atoms)	1.4597E+17	1.8021E+13	
Organic I (atoms)	1.3085E+17	1.6154E+13	
Aerosols (kg)	6.1504E-05	7.5931E-09	
Dose Effective (Ci) I-131 (Thyroid)		4.7958E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		6.0368E+01	
Total I (Ci)		2.5497E+02	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	1.7802E+21
Elemental I (atoms)	1.3167E+17	1.3167E+17
Organic I (atoms)	0.0000E+00	1.1971E+17
Aerosols (kg)	1.6777E-04	6.1895E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8548E+19
Elemental I (atoms)	2.8503E+14	2.8503E+14
Organic I (atoms)	0.0000E+00	1.0956E+15
Aerosols (kg)	4.0536E-07	6.8136E-08

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5276E+19
Elemental I (atoms)	7.6009E+15	7.6009E+15
Organic I (atoms)	0.0000E+00	2.8970E+15
Aerosols (kg)	1.4060E-05	4.6551E-08

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7101E+18
Elemental I (atoms)	1.3331E+14	1.3930E+12
Organic I (atoms)	1.1490E+14	1.1635E+12
Aerosols (kg)	5.6615E-08	5.9557E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1668E+17
Elemental I (atoms)	0.0000E+00	2.4951E+13
Organic I (atoms)	0.0000E+00	2.1494E+13
Aerosols (kg)	0.0000E+00	1.0598E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	3.1923E+17	0.0000E+00
Elemental I (atoms)	6.4954E+12	0.0000E+00
Organic I (atoms)	3.6958E+12	0.0000E+00
Aerosols (kg)	2.9876E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6656E+19
Elemental I (atoms)	7.9106E+15	7.9106E+15
Organic I (atoms)	0.0000E+00	3.0114E+15
Aerosols (kg)	1.4623E-05	5.8728E-08

CR Compartment Nuclide Inventory:

Time (h) = 2.2500	Ci	kg	Atoms	Decay
Kr-83m	3.0596E-01	1.5072E-11	1.0936E+14	3.9006E+13
Kr-85m	1.1250E+00	1.3671E-10	9.6854E+14	1.2747E+14
Kr-85	8.0551E-02	2.0550E-07	1.4560E+18	8.4300E+12
Kr-87	9.4308E-01	3.3294E-11	2.3046E+14	1.3269E+14
Kr-88	2.5223E+00	2.0115E-10	1.3766E+15	2.9969E+14
Rb-86	6.8462E-06	8.4139E-14	5.8919E+11	1.5881E+09
Rb-88	2.1219E+00	1.7577E-11	1.2029E+14	1.5408E+14
Sr-89	2.4134E-04	8.3070E-12	5.6209E+13	3.6280E+10
Sr-90	2.5851E-05	1.8951E-10	1.2681E+15	3.8847E+09
Sr-91	2.5275E-04	6.9725E-14	4.6142E+11	3.9740E+10
Sr-92	1.7344E-04	1.3799E-14	9.0324E+10	3.0665E+10
Y-90	5.3776E-07	9.8842E-16	6.6138E+09	6.2096E+07
Y-91	3.0786E-06	1.2554E-13	8.3076E+11	4.5915E+08
Y-92	3.7286E-05	3.8750E-15	2.5365E+10	3.5592E+09
Y-93	2.8954E-06	8.6784E-16	5.6196E+09	4.5401E+08
Zr-95	3.5719E-06	1.6627E-13	1.0540E+12	5.3692E+08

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Zr-97	3.1451E-06	1.6452E-15	1.0214E+10	4.8475E+08
Nb-95	3.5264E-06	9.0182E-14	5.7167E+11	5.2991E+08
Mo-99	4.4079E-05	9.1906E-14	5.5906E+11	6.6669E+09
Tc-99m	3.9684E-05	7.5471E-15	4.5909E+10	5.9386E+09
Ru-103	3.9010E-05	1.2087E-12	7.0670E+12	5.8649E+09
Ru-105	1.9590E-05	2.9144E-15	1.6715E+10	3.2468E+09
Ru-106	1.6242E-05	4.8547E-12	2.7581E+13	2.4408E+09
Rh-105	2.5798E-05	3.0564E-14	1.7530E+11	3.8826E+09
Sb-127	4.4205E-05	1.6553E-13	7.8492E+11	6.6737E+09
Sb-129	9.6818E-05	1.7217E-14	8.0374E+10	1.6090E+10
Te-127	4.4380E-05	1.6816E-14	7.9740E+10	6.6499E+09
Te-127m	7.6044E-06	8.0619E-13	3.8228E+12	1.1427E+09
Te-129	1.1129E-04	5.3142E-15	2.4808E+10	1.7243E+10
Te-129m	2.4939E-05	8.2784E-13	3.8646E+12	3.7477E+09
Te-131m	8.9695E-05	1.1248E-13	5.1709E+11	1.3672E+10
Te-132	6.6449E-04	2.1888E-12	9.9857E+12	1.0040E+11
I-131	3.9789E-03	3.2094E-11	1.4754E+14	8.3725E+11
I-132	4.1634E-03	4.0335E-13	1.8402E+12	9.8715E+11
I-133	7.7119E-03	6.8078E-12	3.0825E+13	1.6654E+12
I-134	1.6097E-03	6.0341E-14	2.7118E+11	7.3539E+11
I-135	6.2045E-03	1.7667E-12	7.8811E+12	1.4269E+12
Xe-133	9.7865E+00	5.2283E-08	2.3674E+17	1.0263E+15
Xe-133m	2.9704E-01	6.7471E-10	3.0550E+15	3.1247E+13
Xe-135	4.1094E+00	1.6092E-09	7.1782E+15	4.3891E+14
Xe-135m	7.9473E-02	8.7302E-13	3.8944E+12	2.3573E+13
Xe-138	1.2151E-02	1.2663E-13	5.5260E+11	1.2138E+13
Cs-134	6.8695E-04	5.3094E-10	2.3861E+15	1.5914E+11
Cs-136	2.0858E-04	2.8459E-12	1.2602E+13	4.8413E+10
Cs-137	5.3336E-04	6.1319E-09	2.6954E+16	1.2355E+11
Ba-139	1.1782E-04	7.2031E-15	3.1207E+10	2.4634E+10
Ba-140	3.5364E-04	4.8306E-12	2.0779E+13	5.3217E+10
La-140	9.4532E-06	1.7007E-14	7.3158E+10	1.0151E+09
La-141	2.2437E-06	3.9675E-16	1.6945E+09	3.7673E+08
La-142	1.1903E-06	8.3153E-17	3.5265E+08	2.3982E+08
Ce-141	8.3882E-06	2.9439E-13	1.2573E+12	1.2609E+09
Ce-143	7.8060E-06	1.1755E-14	4.9502E+10	1.1883E+09
Ce-144	6.7246E-06	2.1084E-12	8.8172E+12	1.0106E+09
Pr-143	3.2131E-06	4.7716E-14	2.0094E+11	4.8213E+08
Nd-147	1.2989E-06	1.6056E-14	6.5775E+10	1.9550E+08
Np-239	9.3106E-05	4.0133E-13	1.0113E+12	1.4097E+10
Pu-238	2.0899E-08	1.2207E-12	3.0889E+12	3.1405E+06
Pu-239	2.1081E-09	3.3916E-11	8.5459E+13	3.1676E+05
Pu-240	3.7231E-09	1.6346E-12	4.1017E+12	5.5948E+05
Pu-241	8.2714E-07	8.3641E-12	2.0900E+13	1.2430E+08
Am-241	4.6807E-10	1.3663E-13	3.4141E+11	7.0326E+04
Cm-242	1.2850E-07	3.8819E-14	9.6601E+10	1.9312E+07
Cm-244	8.4997E-09	1.0384E-13	2.5629E+11	1.2773E+06

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	1.7056E+18	0.0000E+00	
Elemental I (atoms)	1.6657E+13	0.0000E+00	
Organic I (atoms)	1.7151E+13	0.0000E+00	
Aerosols (kg)	6.9789E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.0688E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.2416E-13	
Total I (Ci)		2.3668E-02	

	Deposition	Recirculating
Time (h) =	2.2500	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.7128E+12
Organic I (atoms)	0.0000E+00	1.5436E+12
Aerosols (kg)	0.0000E+00	1.2478E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7101E+18
Elemental I (atoms)	1.3331E+14	1.3930E+12
Organic I (atoms)	1.1490E+14	1.1635E+12
Aerosols (kg)	5.6615E-08	5.9557E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported

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Noble gases (atoms)	0.0000E+00	3.1668E+17
Elemental I (atoms)	0.0000E+00	2.4951E+13
Organic I (atoms)	0.0000E+00	2.1494E+13
Aerosols (kg)	0.0000E+00	1.0598E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	3.1923E+17	0.0000E+00
Elemental I (atoms)	6.4954E+12	0.0000E+00
Organic I (atoms)	3.6958E+12	0.0000E+00
Aerosols (kg)	2.9876E-09	0.0000E+00

EAB Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0647E-02	2.4859E-02	2.1601E-02
Accumulated dose (rem)	2.6547E-01	2.2555E+00	3.6816E-01

LPZ Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8107E-03	3.3842E-03	2.9406E-03
Accumulated dose (rem)	3.6140E-02	3.0705E-01	5.0120E-02

CR Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4812E-03	1.0516E-01	1.3412E-02
Accumulated dose (rem)	3.5470E-02	1.2250E+00	1.0639E-01

Environment Integral Nuclide Release:

Time (h) = 2.4000	Ci	kg	Atoms	Bq
Kr-83m	4.8215E+02	2.3752E-08	1.7234E+17	1.7840E+13
Kr-85m	1.5508E+03	1.8845E-07	1.3351E+18	5.7381E+13
Kr-85	1.0167E+02	2.5939E-04	1.8377E+21	3.7618E+12
Kr-87	1.6661E+03	5.8820E-08	4.0715E+17	6.1646E+13
Kr-88	3.6680E+03	2.9252E-07	2.0018E+18	1.3571E+14
Rb-86	6.1048E-02	7.5027E-10	5.2538E+15	2.2588E+09
Rb-88	8.6601E+02	7.1739E-09	4.9093E+16	3.2042E+13
Sr-89	1.8654E+00	6.4208E-08	4.3446E+17	6.9019E+10
Sr-90	1.9970E-01	1.4640E-06	9.7962E+18	7.3891E+09
Sr-91	2.0876E+00	5.7589E-10	3.8111E+15	7.7241E+10
Sr-92	1.7021E+00	1.3541E-10	8.8638E+14	6.2976E+10
Y-90	2.3341E-03	4.2902E-12	2.8707E+13	8.6363E+07
Y-91	2.3433E-02	9.5553E-10	6.3234E+15	8.6703E+08
Y-92	6.3095E-02	6.5571E-12	4.2921E+13	2.3345E+09
Y-93	2.3819E-02	7.1393E-12	4.6230E+13	8.8130E+08
Zr-95	2.7606E-02	1.2850E-09	8.1457E+15	1.0214E+09
Zr-97	2.5224E-02	1.3195E-11	8.1917E+13	9.3327E+08
Nb-95	2.7243E-02	6.9668E-10	4.4163E+15	1.0080E+09
Mo-99	3.4380E-01	7.1682E-10	4.3604E+15	1.2720E+10
Tc-99m	3.0697E-01	5.8379E-11	3.5512E+14	1.1358E+10
Ru-103	3.0157E-01	9.3440E-09	5.4632E+16	1.1158E+10
Ru-105	1.7485E-01	2.6012E-11	1.4919E+14	6.4696E+09
Ru-106	1.2548E-01	3.7507E-08	2.1308E+17	4.6428E+09
Rh-105	1.9990E-01	2.3683E-10	1.3583E+15	7.3963E+09
Sb-127	3.4384E-01	1.2875E-09	6.1053E+15	1.2722E+10
Sb-129	8.6768E-01	1.5430E-10	7.2031E+14	3.2104E+10
Te-127	3.4305E-01	1.2999E-10	6.1639E+14	1.2693E+10
Te-127m	5.8746E-02	6.2280E-09	2.9532E+16	2.1736E+09
Te-129	9.2797E-01	4.4311E-11	2.0686E+14	3.4335E+10
Te-129m	1.9267E-01	6.3956E-09	2.9857E+16	7.1288E+09
Te-131m	7.0767E-01	8.8746E-10	4.0797E+15	2.6184E+10
Te-132	5.1750E+00	1.7046E-08	7.7767E+16	1.9147E+11
I-131	3.4749E+01	2.8029E-07	1.2885E+18	1.2857E+12
I-132	4.8417E+01	4.6906E-09	2.1400E+16	1.7914E+12
I-133	6.9926E+01	6.1728E-08	2.7950E+17	2.5873E+12
I-134	4.2621E+01	1.5977E-09	7.1802E+15	1.5770E+12
I-135	6.1649E+01	1.7554E-08	7.8307E+16	2.2810E+12
Xe-133	1.2390E+04	6.6191E-05	2.9971E+20	4.5842E+14
Xe-133m	3.7767E+02	8.5784E-07	3.8842E+18	1.3974E+13
Xe-135	5.4061E+03	2.1169E-06	9.4434E+18	2.0003E+14
Xe-135m	4.6740E+02	5.1345E-09	2.2904E+16	1.7294E+13
Xe-138	2.4119E+02	2.5137E-09	1.0969E+16	8.9242E+12
Cs-134	6.1128E+00	4.7246E-06	2.1233E+19	2.2617E+11

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Cs-136	1.8616E+00	2.5400E-08	1.1247E+17	6.8878E+10
Cs-137	4.7459E+00	5.4562E-05	2.3984E+20	1.7560E+11
Ba-139	1.4757E+00	9.0221E-11	3.9088E+14	5.4603E+10
Ba-140	2.7376E+00	3.7395E-08	1.6085E+17	1.0129E+11
La-140	3.3550E-02	6.0360E-11	2.5964E+14	1.2413E+09
La-141	2.0413E-02	3.6095E-12	1.5416E+13	7.5527E+08
La-142	1.4130E-02	9.8709E-13	4.1862E+12	5.2282E+08
Ce-141	6.4837E-02	2.2755E-09	9.7187E+15	2.3990E+09
Ce-143	6.1468E-02	9.2561E-11	3.8980E+14	2.2743E+09
Ce-144	5.1954E-02	1.6289E-08	6.8122E+16	1.9223E+09
Pr-143	2.4756E-02	3.6764E-10	1.5482E+15	9.1598E+08
Nd-147	1.0058E-02	1.2433E-10	5.0935E+14	3.7216E+08
Np-239	7.2735E-01	3.1352E-09	7.8999E+15	2.6912E+10
Pu-238	1.6145E-04	9.4306E-09	2.3862E+16	5.9736E+06
Pu-239	1.6284E-05	2.6198E-07	6.6011E+17	6.0249E+05
Pu-240	2.8762E-05	1.2628E-08	3.1687E+16	1.0642E+06
Pu-241	6.3900E-03	6.4616E-08	1.6146E+17	2.3643E+08
Am-241	3.6149E-06	1.0552E-09	2.6368E+15	1.3375E+05
Cm-242	9.9286E-04	2.9994E-10	7.4639E+14	3.6736E+07
Cm-244	6.5664E-05	8.0223E-10	1.9800E+15	2.4296E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 2.4000	Release	Rate/s	
Noble gases (atoms)	2.1547E+21	2.4939E+17	
Elemental I (atoms)	1.4885E+17	1.7228E+13	
Organic I (atoms)	1.4356E+17	1.6616E+13	
Aerosols (kg)	6.1644E-05	7.1348E-09	
Dose Effective (Ci) I-131 (Thyroid)		4.8504E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		6.1042E+01	
Total I (Ci)		2.5736E+02	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9593E+21
Elemental I (atoms)	1.3178E+17	1.3178E+17
Organic I (atoms)	0.0000E+00	1.3025E+17
Aerosols (kg)	1.6811E-04	6.2021E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6594E+19
Elemental I (atoms)	2.9141E+14	2.9141E+14
Organic I (atoms)	0.0000E+00	1.5692E+15
Aerosols (kg)	4.2096E-07	7.0759E-08

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7049E+19
Elemental I (atoms)	8.9512E+15	8.9512E+15
Organic I (atoms)	0.0000E+00	3.7392E+15
Aerosols (kg)	1.6525E-05	5.4712E-08

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8411E+18
Elemental I (atoms)	1.3508E+14	1.4109E+12
Organic I (atoms)	1.2272E+14	1.2425E+12
Aerosols (kg)	5.6701E-08	5.9644E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4095E+17
Elemental I (atoms)	0.0000E+00	2.5283E+13
Organic I (atoms)	0.0000E+00	2.2957E+13
Aerosols (kg)	0.0000E+00	1.0614E-08

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	3.8537E+17	0.0000E+00
Elemental I (atoms)	7.1146E+12	0.0000E+00
Organic I (atoms)	4.3551E+12	0.0000E+00
Aerosols (kg)	3.2448E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8902E+19
Elemental I (atoms)	9.3185E+15	9.3185E+15
Organic I (atoms)	0.0000E+00	3.8878E+15
Aerosols (kg)	1.7192E-05	6.9044E-08

CR Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	3.0444E-01	1.4998E-11	1.0882E+14	4.5193E+13
Kr-85m	1.1567E+00	1.4055E-10	9.9578E+14	1.5059E+14
Kr-85	8.4761E-02	2.1624E-07	1.5321E+18	1.0105E+13
Kr-87	9.1446E-01	3.2284E-11	2.2347E+14	1.5152E+14
Kr-88	2.5587E+00	2.0406E-10	1.3964E+15	3.5119E+14
Rb-86	6.5035E-06	7.9927E-14	5.5969E+11	1.7196E+09
Rb-88	2.2477E+00	1.8620E-11	1.2742E+14	1.9215E+14
Sr-89	2.2954E-04	7.9008E-12	5.3460E+13	4.0917E+10
Sr-90	2.4589E-05	1.8026E-10	1.2062E+15	4.3815E+09
Sr-91	2.3780E-04	6.5599E-14	4.3412E+11	4.4571E+10
Sr-92	1.5877E-04	1.2631E-14	8.2681E+10	3.3935E+10
Y-90	5.5009E-07	1.0111E-15	6.7654E+09	7.2591E+07
Y-91	2.9354E-06	1.1970E-13	7.9212E+11	5.1834E+08
Y-92	3.9097E-05	4.0631E-15	2.6596E+10	4.2855E+09
Y-93	2.7258E-06	8.1702E-16	5.2906E+09	5.0937E+08
Zr-95	3.3973E-06	1.5814E-13	1.0025E+12	6.0556E+08
Zr-97	2.9732E-06	1.5553E-15	9.6557E+09	5.4500E+08
Nb-95	3.3542E-06	8.5779E-14	5.4376E+11	5.9767E+08
Mo-99	4.1861E-05	8.7281E-14	5.3093E+11	7.5134E+09
Tc-99m	3.7735E-05	7.1763E-15	4.3653E+10	6.6976E+09
Ru-103	3.7101E-05	1.1496E-12	6.7213E+12	6.6145E+09
Ru-105	1.8203E-05	2.7079E-15	1.5531E+10	3.6189E+09
Ru-106	1.5449E-05	4.6176E-12	2.6234E+13	2.7529E+09
Rh-105	2.4520E-05	2.9051E-14	1.6662E+11	4.3779E+09
Sb-127	4.2000E-05	1.5727E-13	7.4576E+11	7.5227E+09
Sb-129	8.9901E-05	1.5987E-14	7.4632E+10	1.7929E+10
Te-127	4.2207E-05	1.5993E-14	7.5836E+10	7.5001E+09
Te-127m	7.2332E-06	7.6683E-13	3.6362E+12	1.2889E+09
Te-129	1.0429E-04	4.9801E-15	2.3249E+10	1.9323E+10
Te-129m	2.3721E-05	7.8741E-13	3.6759E+12	4.2270E+09
Te-131m	8.5021E-05	1.0662E-13	4.9015E+11	1.5393E+10
Te-132	6.3121E-04	2.0791E-12	9.4855E+12	1.1316E+11
I-131	3.8162E-03	3.0782E-11	1.4151E+14	9.1421E+11
I-132	3.8549E-03	3.7346E-13	1.7038E+12	1.0662E+12
I-133	7.3636E-03	6.5003E-12	2.9433E+13	1.8142E+12
I-134	1.3720E-03	5.1429E-14	2.3113E+11	7.6476E+11
I-135	5.8610E-03	1.6689E-12	7.4448E+12	1.5460E+12
Xe-133	1.0291E+01	5.4976E-08	2.4893E+17	1.2297E+15
Xe-133m	3.1202E-01	7.0873E-10	3.2091E+15	3.7418E+13
Xe-135	4.2853E+00	1.6781E-09	7.4856E+15	5.2402E+14
Xe-135m	5.9698E-02	6.5578E-13	2.9253E+12	2.5001E+13
Xe-138	8.2401E-03	8.5876E-14	3.7475E+11	1.2343E+13
Cs-134	6.5271E-04	5.0448E-10	2.2672E+15	1.7233E+11
Cs-136	1.9812E-04	2.7031E-12	1.1970E+13	5.2417E+10
Cs-137	5.0678E-04	5.8263E-09	2.5611E+16	1.3379E+11
Ba-139	1.0393E-04	6.3537E-15	2.7527E+10	2.6815E+10
Ba-140	3.3626E-04	4.5932E-12	1.9758E+13	6.0012E+10
La-140	9.8250E-06	1.7676E-14	7.6035E+10	1.2002E+09
La-141	2.0785E-06	3.6752E-16	1.5697E+09	4.1928E+08
La-142	1.0584E-06	7.3935E-17	3.1355E+08	2.6194E+08
Ce-141	7.9779E-06	2.7999E-13	1.1958E+12	1.4221E+09
Ce-143	7.4015E-06	1.1145E-14	4.6937E+10	1.3381E+09
Ce-144	6.3962E-06	2.0054E-12	8.3866E+12	1.1398E+09
Pr-143	3.0576E-06	4.5407E-14	1.9122E+11	5.4388E+08
Nd-147	1.2350E-06	1.5266E-14	6.2539E+10	2.2046E+08
Np-239	8.8398E-05	3.8104E-13	9.6011E+11	1.5885E+10
Pu-238	1.9879E-08	1.1611E-12	2.9381E+12	3.5422E+06

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Pu-239	2.0052E-09	3.2261E-11	8.1288E+13	3.5728E+05
Pu-240	3.5413E-09	1.5548E-12	3.9014E+12	6.3103E+05
Pu-241	7.8676E-07	7.9557E-12	1.9880E+13	1.4019E+08
Am-241	4.4524E-10	1.2996E-13	3.2476E+11	7.9322E+04
Cm-242	1.2222E-07	3.6923E-14	9.1882E+10	2.1782E+07
Cm-244	8.0848E-09	9.8774E-14	2.4378E+11	1.4406E+06

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	1.7944E+18	0.0000E+00	
Elemental I (atoms)	1.6089E+13	0.0000E+00	
Organic I (atoms)	1.7716E+13	0.0000E+00	
Aerosols (kg)	6.6331E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.8532E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.9640E-13	
Total I (Ci)		2.2268E-02	

	Deposition	Recirculating
Time (h) =	2.4000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.9714E+12
Organic I (atoms)	0.0000E+00	1.8189E+12
Aerosols (kg)	0.0000E+00	1.3552E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8411E+18
Elemental I (atoms)	1.3508E+14	1.4109E+12
Organic I (atoms)	1.2272E+14	1.2425E+12
Aerosols (kg)	5.6701E-08	5.9644E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.4095E+17
Elemental I (atoms)	0.0000E+00	2.5283E+13
Organic I (atoms)	0.0000E+00	2.2957E+13
Aerosols (kg)	0.0000E+00	1.0614E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	3.8537E+17	0.0000E+00
Elemental I (atoms)	7.1146E+12	0.0000E+00
Organic I (atoms)	4.3551E+12	0.0000E+00
Aerosols (kg)	3.2448E-09	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1154E-01	3.0636E-01	2.2432E-01	
Accumulated dose (rem)	4.7701E-01	2.5619E+00	5.9248E-01	

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8798E-02	4.1706E-02	3.0538E-02	
Accumulated dose (rem)	6.4938E-02	3.4876E-01	8.0657E-02	

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.2781E-02	8.9458E-01	1.4237E-01	
Accumulated dose (rem)	9.8251E-02	2.1196E+00	2.4876E-01	

Environment Integral Nuclide Release:

Time (h) =	4.0000	Ci	kg	Atoms	Bq
Kr-83m	8.0356E+02	3.9586E-08	2.8722E+17	2.9732E+13	
Kr-85m	3.0137E+03	3.6621E-07	2.5945E+18	1.1151E+14	
Kr-85	2.2429E+02	5.7222E-04	4.0541E+21	8.2989E+12	
Kr-87	2.5089E+03	8.8575E-08	6.1311E+17	9.2830E+13	
Kr-88	6.6694E+03	5.3189E-07	3.6399E+18	2.4677E+14	
Rb-86	6.2569E-02	7.6897E-10	5.3847E+15	2.3151E+09	

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Rb-88	2.0817E+03	1.7244E-08	1.1801E+17	7.7022E+13
Sr-89	1.9416E+00	6.6830E-08	4.5220E+17	7.1837E+10
Sr-90	2.0787E-01	1.5239E-06	1.0197E+19	7.6911E+09
Sr-91	2.1618E+00	5.9636E-10	3.9466E+15	7.9987E+10
Sr-92	1.7447E+00	1.3880E-10	9.0858E+14	6.4553E+10
Y-90	2.5439E-03	4.6758E-12	3.1287E+13	9.4125E+07
Y-91	2.4412E-02	9.9542E-10	6.5874E+15	9.0323E+08
Y-92	7.6072E-02	7.9058E-12	5.1750E+13	2.8147E+09
Y-93	2.4673E-02	7.3952E-12	4.7887E+13	9.1289E+08
Zr-95	2.8733E-02	1.3375E-09	8.4785E+15	1.0631E+09
Zr-97	2.6177E-02	1.3693E-11	8.5012E+13	9.6854E+08
Nb-95	2.8356E-02	7.2516E-10	4.5969E+15	1.0492E+09
Mo-99	3.5757E-01	7.4554E-10	4.5351E+15	1.3230E+10
Tc-99m	3.1947E-01	6.0757E-11	3.6958E+14	1.1821E+10
Ru-103	3.1388E-01	9.7254E-09	5.6862E+16	1.1613E+10
Ru-105	1.8015E-01	2.6801E-11	1.5371E+14	6.6657E+09
Ru-106	1.3061E-01	3.9040E-08	2.2179E+17	4.8326E+09
Rh-105	2.0800E-01	2.4643E-10	1.4133E+15	7.6959E+09
Sb-127	3.5769E-01	1.3394E-09	6.3513E+15	1.3235E+10
Sb-129	8.9376E-01	1.5894E-10	7.4196E+14	3.3069E+10
Te-127	3.5705E-01	1.3529E-10	6.4154E+14	1.3211E+10
Te-127m	6.1148E-02	6.4826E-09	3.0739E+16	2.2625E+09
Te-129	9.5966E-01	4.5824E-11	2.1392E+14	3.5507E+10
Te-129m	2.0055E-01	6.6570E-09	3.1077E+16	7.4202E+09
Te-131m	7.3534E-01	9.2217E-10	4.2393E+15	2.7208E+10
Te-132	5.3830E+00	1.7731E-08	8.0893E+16	1.9917E+11
I-131	3.9707E+01	3.2028E-07	1.4723E+18	1.4691E+12
I-132	5.2984E+01	5.1331E-09	2.3418E+16	1.9604E+12
I-133	7.9241E+01	6.9951E-08	3.1673E+17	2.9319E+12
I-134	4.3568E+01	1.6332E-09	7.3398E+15	1.6120E+12
I-135	6.8614E+01	1.9538E-08	8.7156E+16	2.5387E+12
Xe-133	2.7219E+04	1.4542E-04	6.5843E+20	1.0071E+15
Xe-133m	8.2480E+02	1.8735E-06	8.4828E+18	3.0517E+13
Xe-135	1.1342E+04	4.4413E-06	1.9812E+19	4.1965E+14
Xe-135m	5.0036E+02	5.4965E-09	2.4519E+16	1.8513E+13
Xe-138	2.4320E+02	2.5346E-09	1.1061E+16	8.9983E+12
Cs-134	6.2657E+00	4.8428E-06	2.1764E+19	2.3183E+11
Cs-136	1.9079E+00	2.6032E-08	1.1527E+17	7.0592E+10
Cs-137	4.8646E+00	5.5927E-05	2.4584E+20	1.7999E+11
Ba-139	1.4988E+00	9.1629E-11	3.9698E+14	5.5455E+10
Ba-140	2.8490E+00	3.8917E-08	1.6740E+17	1.0541E+11
La-140	3.7393E-02	6.7274E-11	2.8938E+14	1.3835E+09
La-141	2.1008E-02	3.7147E-12	1.5866E+13	7.7730E+08
La-142	1.4374E-02	1.0041E-12	4.2585E+12	5.3185E+08
Ce-141	6.7485E-02	2.3684E-09	1.0116E+16	2.4969E+09
Ce-143	6.3882E-02	9.6196E-11	4.0511E+14	2.3636E+09
Ce-144	5.4078E-02	1.6955E-08	7.0906E+16	2.0009E+09
Pr-143	2.5772E-02	3.8273E-10	1.6118E+15	9.5358E+08
Nd-147	1.0467E-02	1.2939E-10	5.3007E+14	3.8729E+08
Np-239	7.5639E-01	3.2604E-09	8.2154E+15	2.7986E+10
Pu-238	1.6805E-04	9.8161E-09	2.4838E+16	6.2178E+06
Pu-239	1.6949E-05	2.7269E-07	6.8710E+17	6.2713E+05
Pu-240	2.9938E-05	1.3144E-08	3.2982E+16	1.1077E+06
Pu-241	6.6512E-03	6.7257E-08	1.6806E+17	2.4609E+08
Am-241	3.7628E-06	1.0984E-09	2.7446E+15	1.3922E+05
Cm-242	1.0334E-03	3.1220E-10	7.7689E+14	3.8237E+07
Cm-244	6.8348E-05	8.3502E-10	2.0609E+15	2.5289E+06

Environment Transport Group Inventory:

	Total Release	Release Rate/s
Time (h) = 4.0000		
Noble gases (atoms)	4.7480E+21	3.2972E+17
Elemental I (atoms)	1.9015E+17	1.3205E+13
Organic I (atoms)	2.9843E+17	2.0724E+13
Aerosols (kg)	6.3229E-05	4.3909E-09
Dose Effective (Ci) I-131 (Thyroid)		5.5242E+01
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		6.9249E+01
Total I (Ci)		2.8411E+02

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway Filtered	Transported
Time (h) = 4.0000		
Noble gases (atoms)	0.0000E+00	3.8665E+21
Elemental I (atoms)	1.3231E+17	1.3231E+17
Organic I (atoms)	0.0000E+00	2.4112E+17
Aerosols (kg)	1.7157E-04	6.3295E-05

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WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1226E+20
Elemental I (atoms)	3.1449E+14	3.1449E+14
Organic I (atoms)	0.0000E+00	6.5486E+15
Aerosols (kg)	6.0275E-07	1.0131E-07

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4121E+20
Elemental I (atoms)	2.8910E+16	2.8910E+16
Organic I (atoms)	0.0000E+00	2.2960E+16
Aerosols (kg)	5.3164E-05	1.7602E-07

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4507E+18
Elemental I (atoms)	1.6049E+14	1.6676E+12
Organic I (atoms)	2.1801E+14	2.2050E+12
Aerosols (kg)	5.7671E-08	6.0624E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3902E+17
Elemental I (atoms)	0.0000E+00	3.0036E+13
Organic I (atoms)	0.0000E+00	4.0782E+13
Aerosols (kg)	0.0000E+00	1.0796E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	
	Filtered	Transported
Noble gases (atoms)	1.3038E+18	0.0000E+00
Elemental I (atoms)	1.2787E+13	0.0000E+00
Organic I (atoms)	1.2760E+13	0.0000E+00
Aerosols (kg)	5.3160E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5557E+20
Elemental I (atoms)	3.0182E+16	3.0182E+16
Organic I (atoms)	0.0000E+00	2.3932E+16
Aerosols (kg)	5.5468E-05	2.2276E-07

CR Compartment Nuclide Inventory:

Time (h) =	4.0000				
	Ci	kg	Atoms	Decay	
Kr-83m	2.6022E-01	1.2819E-11	9.3010E+13	1.0682E+14	
Kr-85m	1.4011E+00	1.7026E-10	1.2062E+15	4.2942E+14	
Kr-85	1.3152E-01	3.3553E-07	2.3772E+18	3.3376E+13	
Kr-87	5.9319E-01	2.0942E-11	1.4496E+14	3.1391E+14	
Kr-88	2.6867E+00	2.1426E-10	1.4663E+15	9.2469E+14	
Rb-86	3.8039E-06	4.6750E-14	3.2737E+11	2.7725E+09	
Rb-88	2.7012E+00	2.2376E-11	1.5313E+14	6.6268E+14	
Sr-89	1.3654E-04	4.6997E-12	3.1800E+13	7.8362E+10	
Sr-90	1.4639E-05	1.0732E-10	7.1812E+14	8.3943E+09	
Sr-91	1.2598E-04	3.4753E-14	2.2999E+11	8.1383E+10	
Sr-92	6.2780E-05	4.9947E-15	3.2694E+10	5.5571E+10	
Y-90	5.6926E-07	1.0463E-15	7.0011E+09	1.9059E+08	
Y-91	1.7898E-06	7.2980E-14	4.8297E+11	1.0024E+09	
Y-92	3.7463E-05	3.8934E-15	2.5485E+10	1.2557E+10	
Y-93	1.4541E-06	4.3585E-16	2.8223E+09	9.3265E+08	
Zr-95	2.0212E-06	9.4086E-14	5.9642E+11	1.1598E+09	
Zr-97	1.6577E-06	8.6716E-16	5.3837E+09	1.0160E+09	
Nb-95	1.9971E-06	5.1071E-14	3.2375E+11	1.1451E+09	
Mo-99	2.4508E-05	5.1100E-14	3.1084E+11	1.4293E+10	
Tc-99m	2.2366E-05	4.2535E-15	2.5874E+10	1.2810E+10	

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Ru-103	2.2064E-05	6.8363E-13	3.9970E+12	1.2666E+10
Ru-105	8.4422E-06	1.2559E-15	7.2030E+09	6.2757E+09
Ru-106	9.1966E-06	2.7489E-12	1.5617E+13	5.2740E+09
Rh-105	1.4444E-05	1.7113E-14	9.8150E+10	8.3592E+09
Sb-127	2.4708E-05	9.2520E-14	4.3871E+11	1.4340E+10
Sb-129	4.1406E-05	7.3632E-15	3.4374E+10	3.1011E+10
Te-127	2.5080E-05	9.5034E-15	4.5064E+10	1.4358E+10
Te-127m	4.3066E-06	4.5656E-13	2.1650E+12	2.4693E+09
Te-129	5.2281E-05	2.4964E-15	1.1654E+10	3.4728E+10
Te-129m	1.4118E-05	4.6864E-13	2.1877E+12	8.0975E+09
Te-131m	4.8783E-05	6.1177E-14	2.8123E+11	2.9037E+10
Te-132	3.7052E-04	1.2205E-12	5.5680E+12	2.1551E+11
I-131	2.6048E-03	2.1011E-11	9.6588E+13	1.5754E+12
I-132	1.8269E-03	1.7699E-13	8.0746E+11	1.6302E+12
I-133	4.7920E-03	4.2302E-12	1.9154E+13	3.0619E+12
I-134	2.6577E-04	9.9628E-15	4.4774E+10	9.0523E+11
I-135	3.4017E-03	9.6862E-13	4.3209E+12	2.4882E+12
Xe-133	1.5839E+01	8.4618E-08	3.8314E+17	4.0429E+15
Xe-133m	4.7474E-01	1.0783E-09	4.8826E+15	1.2220E+14
Xe-135	5.9666E+00	2.3364E-09	1.0422E+16	1.6366E+15
Xe-135m	3.6596E-03	4.0200E-14	1.7933E+11	2.9022E+13
Xe-138	1.1792E-04	1.2289E-15	5.3629E+09	1.2761E+13
Cs-134	3.8270E-04	2.9579E-10	1.3293E+15	2.7812E+11
Cs-136	1.1576E-04	1.5794E-12	6.9938E+12	8.4478E+10
Cs-137	2.9715E-04	3.4163E-09	1.5017E+16	2.1594E+11
Ba-139	2.7674E-05	1.6919E-15	7.3301E+09	3.8867E+10
Ba-140	1.9948E-04	2.7248E-12	1.1721E+13	1.1480E+11
La-140	1.1032E-05	1.9848E-14	8.5377E+10	3.4098E+09
La-141	9.3322E-07	1.6502E-16	7.0478E+08	7.1840E+08
La-142	3.0691E-07	2.1440E-17	9.0926E+07	3.8889E+08
Ce-141	4.7447E-06	1.6652E-13	7.1121E+11	2.7234E+09
Ce-143	4.2611E-06	6.4165E-15	2.7022E+10	2.5276E+09
Ce-144	3.8075E-06	1.1938E-12	4.9924E+12	2.1836E+09
Pr-143	1.8288E-06	2.7159E-14	1.1437E+11	1.0438E+09
Nd-147	7.3219E-07	9.0508E-15	3.7078E+10	4.2162E+08
Np-239	5.1608E-05	2.2246E-13	5.6053E+11	3.0183E+10
Pu-238	1.1835E-08	6.9133E-13	1.7493E+12	6.7863E+06
Pu-239	1.1941E-09	1.9212E-11	4.8409E+13	6.8456E+05
Pu-240	2.1084E-09	9.2571E-13	2.3228E+12	1.2090E+06
Pu-241	4.6842E-07	4.7367E-12	1.1836E+13	2.6859E+08
Am-241	2.6522E-10	7.7418E-14	1.9345E+11	1.5200E+05
Cm-242	7.2749E-08	2.1977E-14	5.4689E+10	4.1726E+07
Cm-244	4.8135E-09	5.8807E-14	1.4514E+11	2.7601E+06

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	2.7786E+18	0.0000E+00	
Elemental I (atoms)	1.2728E+13	0.0000E+00	
Organic I (atoms)	2.4094E+13	0.0000E+00	
Aerosols (kg)	3.9026E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.2553E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.9292E-13	
Total I (Ci)		1.2891E-02	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.3405E+12
Organic I (atoms)	0.0000E+00	5.3293E+12
Aerosols (kg)	0.0000E+00	2.2202E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.4507E+18
Elemental I (atoms)	1.6049E+14	1.6676E+12
Organic I (atoms)	2.1801E+14	2.2050E+12
Aerosols (kg)	5.7671E-08	6.0624E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.3902E+17
Elemental I (atoms)	0.0000E+00	3.0036E+13
Organic I (atoms)	0.0000E+00	4.0782E+13
Aerosols (kg)	0.0000E+00	1.0796E-08

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	1.3038E+18	0.0000E+00
Elemental I (atoms)	1.2787E+13	0.0000E+00
Organic I (atoms)	1.2760E+13	0.0000E+00
Aerosols (kg)	5.3160E-09	0.0000E+00

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5372E-01	1.0690E+00	4.9325E-01
Accumulated dose (rem)	9.3073E-01	3.6309E+00	1.0857E+00

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1767E-02	1.4553E-01	6.7149E-02
Accumulated dose (rem)	1.2670E-01	4.9429E-01	1.4781E-01

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6116E-01	1.4065E+00	3.1591E-01
Accumulated dose (rem)	2.5941E-01	3.5260E+00	5.6468E-01

Environment Integral Nuclide Release:

Time (h) = 8.0000	Ci	kg	Atoms	Bq
Kr-83m	1.2543E+03	6.1790E-08	4.4832E+17	4.6409E+13
Kr-85m	6.6767E+03	8.1132E-07	5.7481E+18	2.4704E+14
Kr-85	7.0262E+02	1.7925E-03	1.2700E+22	2.5997E+13
Kr-87	3.2832E+03	1.1591E-07	8.0232E+17	1.2148E+14
Kr-88	1.2558E+04	1.0015E-06	6.8537E+18	4.6466E+14
Rb-86	6.6640E-02	8.1900E-10	5.7351E+15	2.4657E+09
Rb-88	4.3019E+03	3.5636E-08	2.4387E+17	1.5917E+14
Sr-89	2.1429E+00	7.3759E-08	4.9909E+17	7.9286E+10
Sr-90	2.2948E-01	1.6823E-06	1.1257E+19	8.4907E+09
Sr-91	2.3223E+00	6.4065E-10	4.2396E+15	8.5926E+10
Sr-92	1.8017E+00	1.4334E-10	9.3830E+14	6.6665E+10
Y-90	3.7343E-03	6.8637E-12	4.5926E+13	1.3817E+08
Y-91	2.7101E-02	1.1051E-09	7.3131E+15	1.0027E+09
Y-92	1.2789E-01	1.3291E-11	8.7001E+13	4.7320E+09
Y-93	2.6542E-02	7.9553E-12	5.1514E+13	9.8204E+08
Zr-95	3.1714E-02	1.4762E-09	9.3581E+15	1.1734E+09
Zr-97	2.8428E-02	1.4871E-11	9.2323E+13	1.0518E+09
Nb-95	3.1304E-02	8.0056E-10	5.0748E+15	1.1583E+09
Mo-99	3.9298E-01	8.1936E-10	4.9841E+15	1.4540E+10
Tc-99m	3.5219E-01	6.6979E-11	4.0743E+14	1.3031E+10
Ru-103	3.4640E-01	1.0733E-08	6.2753E+16	1.2817E+10
Ru-105	1.8933E-01	2.8166E-11	1.6154E+14	7.0052E+09
Ru-106	1.4418E-01	4.3097E-08	2.4484E+17	5.3348E+09
Rh-105	2.2888E-01	2.7117E-10	1.5553E+15	8.4686E+09
Sb-127	3.9361E-01	1.4739E-09	6.9890E+15	1.4564E+10
Sb-129	9.3840E-01	1.6688E-10	7.7903E+14	3.4721E+10
Te-127	3.9393E-01	1.4927E-10	7.0780E+14	1.4575E+10
Te-127m	6.7505E-02	7.1566E-09	3.3935E+16	2.4977E+09
Te-129	1.0209E+00	4.8748E-11	2.2757E+14	3.7773E+10
Te-129m	2.2137E-01	7.3482E-09	3.4304E+16	8.1906E+09
Te-131m	8.0403E-01	1.0083E-09	4.6352E+15	2.9749E+10
Te-132	5.9201E+00	1.9500E-08	8.8963E+16	2.1904E+11
I-131	5.7558E+01	4.6427E-07	2.1343E+18	2.1297E+12
I-132	6.1572E+01	5.9650E-09	2.7214E+16	2.2781E+12
I-133	1.1002E+02	9.7126E-08	4.3978E+17	4.0709E+12
I-134	4.4050E+01	1.6513E-09	7.4209E+15	1.6298E+12
I-135	8.7417E+01	2.4892E-08	1.1104E+17	3.2344E+12
Xe-133	8.4166E+04	4.4965E-04	2.0360E+21	3.1141E+15
Xe-133m	2.5040E+03	5.6876E-06	2.5753E+19	9.2647E+13
Xe-135	2.9926E+04	1.1719E-05	5.2275E+19	1.1073E+15
Xe-135m	5.2305E+02	5.7457E-09	2.5631E+16	1.9353E+13
Xe-138	2.4322E+02	2.5348E-09	1.1062E+16	8.9992E+12
Cs-134	6.6766E+00	5.1603E-06	2.3191E+19	2.4703E+11
Cs-136	2.0316E+00	2.7720E-08	1.2274E+17	7.5169E+10
Cs-137	5.1836E+00	5.9594E-05	2.6196E+20	1.9179E+11
Ba-139	1.5158E+00	9.2670E-11	4.0149E+14	5.6085E+10
Ba-140	3.1421E+00	4.2920E-08	1.8462E+17	1.1626E+11

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La-140	6.1030E-02	1.0980E-10	4.7231E+14	2.2581E+09
La-141	2.1985E-02	3.8875E-12	1.6604E+13	8.1345E+08
La-142	1.4579E-02	1.0184E-12	4.3190E+12	5.3941E+08
Ce-141	7.4480E-02	2.6139E-09	1.1164E+16	2.7557E+09
Ce-143	6.9907E-02	1.0527E-10	4.4332E+14	2.5866E+09
Ce-144	5.9697E-02	1.8717E-08	7.8275E+16	2.2088E+09
Pr-143	2.8483E-02	4.2298E-10	1.7813E+15	1.0539E+09
Nd-147	1.1542E-02	1.4268E-10	5.8450E+14	4.2707E+08
Np-239	8.3068E-01	3.5806E-09	9.0222E+15	3.0735E+10
Pu-238	1.8552E-04	1.0837E-08	2.7420E+16	6.8643E+06
Pu-239	1.8713E-05	3.0106E-07	7.5858E+17	6.9237E+05
Pu-240	3.3050E-05	1.4511E-08	3.6411E+16	1.2229E+06
Pu-241	7.3427E-03	7.4249E-08	1.8554E+17	2.7168E+08
Am-241	4.1545E-06	1.2127E-09	3.0303E+15	1.5372E+05
Cm-242	1.1408E-03	3.4463E-10	8.5760E+14	4.2209E+07
Cm-244	7.5454E-05	9.2183E-10	2.2752E+15	2.7918E+06

Environment Transport Group Inventory:

	Total	Release	
Time (h) = 8.0000	Release	Rate/s	
Noble gases (atoms)	1.4828E+22	5.1486E+17	
Elemental I (atoms)	3.3086E+17	1.1488E+13	
Organic I (atoms)	8.7778E+17	3.0479E+13	
Aerosols (kg)	6.7473E-05	2.3428E-09	
Dose Effective (Ci) I-131 (Thyroid)		7.8814E+01	
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		9.7211E+01	
Total I (Ci)		3.6062E+02	

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.6087E+21
Elemental I (atoms)	1.3355E+17	1.3355E+17
Organic I (atoms)	0.0000E+00	5.0750E+17
Aerosols (kg)	1.8017E-04	6.6469E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2526E+20
Elemental I (atoms)	3.7039E+14	3.7039E+14
Organic I (atoms)	0.0000E+00	1.8514E+16
Aerosols (kg)	1.0556E-06	1.7743E-07

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8453E+21
Elemental I (atoms)	9.7014E+16	9.7014E+16
Organic I (atoms)	0.0000E+00	1.7035E+17
Aerosols (kg)	1.8405E-04	6.0936E-07

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7066E+18
Elemental I (atoms)	2.4705E+14	2.5419E+12
Organic I (atoms)	5.7439E+14	5.8047E+12
Aerosols (kg)	6.0273E-08	6.3251E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7975E+18
Elemental I (atoms)	0.0000E+00	4.6227E+13
Organic I (atoms)	0.0000E+00	1.0744E+14
Aerosols (kg)	0.0000E+00	1.1282E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported

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Noble gases (atoms)	5.5916E+18	0.0000E+00
Elemental I (atoms)	2.4961E+13	0.0000E+00
Organic I (atoms)	4.6849E+13	0.0000E+00
Aerosols (kg)	7.5858E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9772E+21
Elemental I (atoms)	1.0167E+17	1.0167E+17
Organic I (atoms)	0.0000E+00	1.7826E+17
Aerosols (kg)	1.9274E-04	7.7408E-07

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	1.2471E-01	6.1435E-12	4.4575E+13	2.0873E+14
Kr-85m	1.6056E+00	1.9510E-10	1.3823E+15	1.2594E+15
Kr-85	2.7985E-01	7.1397E-07	5.0584E+18	1.4193E+14
Kr-87	1.4264E-01	5.0358E-12	3.4858E+13	4.8875E+14
Kr-88	2.1536E+00	1.7175E-10	1.1753E+15	2.2578E+15
Rb-86	1.1687E-06	1.4363E-14	1.0058E+11	3.9167E+09
Rb-88	2.2292E+00	1.8467E-11	1.2637E+14	1.8275E+15
Sr-89	4.5662E-05	1.5717E-12	1.0635E+13	1.2067E+11
Sr-90	4.9071E-06	3.5974E-11	2.4071E+14	1.2935E+10
Sr-91	3.1539E-05	8.7005E-15	5.7577E+10	1.1617E+11
Sr-92	7.5648E-06	6.0184E-16	3.9395E+09	6.8897E+10
Y-90	3.8406E-07	7.0591E-16	4.7234E+09	4.3889E+08
Y-91	6.2763E-07	2.5593E-14	1.6937E+11	1.5684E+09
Y-92	1.2195E-05	1.2674E-15	8.2959E+09	2.4677E+10
Y-93	3.7042E-07	1.1103E-16	7.1893E+08	1.3369E+09
Zr-95	6.7629E-07	3.1480E-14	1.9956E+11	1.7863E+09
Zr-97	4.7159E-07	2.4669E-16	1.5315E+09	1.4972E+09
Nb-95	6.6941E-07	1.7119E-14	1.0852E+11	1.7645E+09
Mo-99	7.8771E-06	1.6424E-14	9.9906E+10	2.1766E+10
Tc-99m	7.3538E-06	1.3985E-15	8.5072E+09	1.9661E+10
Ru-103	7.3739E-06	2.2848E-13	1.3359E+12	1.9502E+10
Ru-105	1.5155E-06	2.2545E-16	1.2931E+09	8.3341E+09
Ru-106	3.0817E-06	9.2113E-13	5.2332E+12	8.1262E+09
Rh-105	4.6348E-06	5.4911E-15	3.1494E+10	1.2766E+10
Sb-127	8.0371E-06	3.0096E-14	1.4271E+11	2.1910E+10
Sb-129	7.3053E-06	1.2991E-15	6.0646E+09	4.1043E+10
Te-127	8.3359E-06	3.1586E-15	1.4978E+10	2.2085E+10
Te-127m	1.4436E-06	1.5304E-13	7.2570E+11	3.8051E+09
Te-129	1.1024E-05	5.2641E-16	2.4575E+09	4.7924E+10
Te-129m	4.7238E-06	1.5680E-13	7.3201E+11	1.2474E+10
Te-131m	1.4908E-05	1.8696E-14	8.5947E+10	4.3611E+10
Te-132	1.1987E-04	3.9484E-13	1.8014E+12	3.2879E+11
I-131	1.8144E-03	1.4635E-11	6.7279E+13	2.6607E+12
I-132	5.4772E-04	5.3063E-14	2.4208E+11	2.1516E+12
I-133	2.9629E-03	2.6155E-12	1.1843E+13	4.9507E+12
I-134	7.9448E-06	2.9782E-16	1.3384E+09	9.4194E+11
I-135	1.5798E-03	4.4986E-13	2.0068E+12	3.6674E+12
Xe-133	3.3002E+01	1.7631E-07	7.9831E+17	1.6963E+16
Xe-133m	9.5998E-01	2.1805E-09	9.8731E+15	5.0306E+14
Xe-135	9.4526E+00	3.7015E-09	1.6512E+16	5.8296E+15
Xe-135m	1.6347E-03	1.7957E-14	8.0102E+10	3.0219E+13
Xe-138	2.0497E-09	2.1361E-20	9.3218E+04	1.2767E+13
Cs-134	1.1829E-04	9.1426E-11	4.1088E+14	3.9351E+11
Cs-136	3.5471E-05	4.8398E-13	2.1431E+12	1.1926E+11
Cs-137	9.1861E-05	1.0561E-09	4.6423E+15	3.0554E+11
Ba-139	1.2410E-06	7.5870E-17	3.2871E+08	4.3223E+10
Ba-140	6.6261E-05	9.0510E-13	3.8933E+12	1.7644E+11
La-140	7.7414E-06	1.3928E-14	5.9910E+10	8.3416E+09
La-141	1.5449E-07	2.7317E-17	1.1667E+08	9.3941E+08
La-142	1.7032E-08	1.1898E-18	5.0459E+06	4.4017E+08
Ce-141	1.5857E-06	5.5650E-14	2.3768E+11	4.1933E+09
Ce-143	1.3132E-06	1.9775E-15	8.3277E+09	3.8050E+09
Ce-144	1.2758E-06	3.9999E-13	1.6728E+12	3.3644E+09
Pr-143	6.1918E-07	9.1950E-15	3.8723E+10	1.6134E+09
Nd-147	2.4286E-07	3.0020E-15	1.2298E+10	6.4775E+08
Np-239	1.6471E-05	7.0997E-14	1.7889E+11	4.5873E+10
Pu-238	3.9673E-09	2.3174E-13	5.8637E+11	1.0457E+07
Pu-239	4.0050E-10	6.4433E-12	1.6235E+13	1.0550E+06
Pu-240	7.0674E-10	3.1030E-13	7.7861E+11	1.8630E+06
Pu-241	1.5701E-07	1.5877E-12	3.9673E+12	4.1388E+08
Am-241	8.9014E-11	2.5983E-14	6.4927E+10	2.3431E+05

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Cm-242	2.4368E-08	7.3614E-15	1.8319E+10	6.4284E+07
Cm-244	1.6134E-09	1.9712E-14	4.8650E+10	4.2531E+06

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	5.8857E+18	0.0000E+00	
Elemental I (atoms)	1.1943E+13	0.0000E+00	
Organic I (atoms)	4.4376E+13	0.0000E+00	
Aerosols (kg)	1.2216E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.1843E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.5561E-13	
Total I (Ci)		6.9128E-03	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0425E+13
Organic I (atoms)	0.0000E+00	1.9567E+13
Aerosols (kg)	0.0000E+00	3.1683E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	8.0000 Filtered Transported
Noble gases (atoms)	0.0000E+00 9.7066E+18
Elemental I (atoms)	2.4705E+14 2.5419E+12
Organic I (atoms)	5.7439E+14 5.8047E+12
Aerosols (kg)	6.0273E-08 6.3251E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway
Time (h) =	8.0000 Filtered Transported
Noble gases (atoms)	0.0000E+00 1.7975E+18
Elemental I (atoms)	0.0000E+00 4.6227E+13
Organic I (atoms)	0.0000E+00 1.0744E+14
Aerosols (kg)	0.0000E+00 1.1282E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway
Time (h) =	8.0000 Filtered Transported
Noble gases (atoms)	5.5916E+18 0.0000E+00
Elemental I (atoms)	2.4961E+13 0.0000E+00
Organic I (atoms)	4.6849E+13 0.0000E+00
Aerosols (kg)	7.5858E-09 0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4354E-01	3.0158E+00	7.4446E-01	
Accumulated dose (rem)	1.5743E+00	6.6467E+00	1.8302E+00	

LPZ Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8946E-02	1.4207E-01	6.3700E-02	
Accumulated dose (rem)	1.8565E-01	6.3635E-01	2.1151E-01	

CR Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6340E-01	1.4671E+00	2.9837E-01	
Accumulated dose (rem)	4.2281E-01	4.9932E+00	8.6305E-01	

Environment Integral Nuclide Release:

Time (h) =	16.0000	Ci	kg	Atoms	Bq
Kr-83m	1.4587E+03	7.1858E-08	5.2138E+17	5.3971E+13	
Kr-85m	1.1826E+04	1.4370E-06	1.0181E+19	4.3755E+14	
Kr-85	2.4020E+03	6.1281E-03	4.3417E+22	8.8875E+13	
Kr-87	3.4423E+03	1.2153E-07	8.4121E+17	1.2737E+14	
Kr-88	1.7650E+04	1.4076E-06	9.6326E+18	6.5305E+14	
Rb-86	7.4546E-02	9.1617E-10	6.4155E+15	2.7582E+09	
Rb-88	8.5563E+03	7.0879E-08	4.8505E+17	3.1658E+14	
Sr-89	2.5444E+00	8.7581E-08	5.9261E+17	9.4143E+10	
Sr-90	2.7273E-01	1.9994E-06	1.3379E+19	1.0091E+10	
Sr-91	2.5304E+00	6.9804E-10	4.6194E+15	9.3624E+10	

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Sr-92	1.8294E+00	1.4554E-10	9.5268E+14	6.7687E+10
Y-90	8.7310E-03	1.6048E-11	1.0738E+14	3.2305E+08
Y-91	3.2787E-02	1.3369E-09	8.8475E+15	1.2131E+09
Y-92	1.9499E-01	2.0264E-11	1.3264E+14	7.2145E+09
Y-93	2.9025E-02	8.6998E-12	5.6335E+13	1.0739E+09
Zr-95	3.7664E-02	1.7532E-09	1.1114E+16	1.3936E+09
Zr-97	3.1946E-02	1.6711E-11	1.0375E+14	1.1820E+09
Nb-95	3.7205E-02	9.5146E-10	6.0314E+15	1.3766E+09
Mo-99	4.5944E-01	9.5794E-10	5.8271E+15	1.6999E+10
Tc-99m	4.1536E-01	7.8993E-11	4.8051E+14	1.5368E+10
Ru-103	4.1120E-01	1.2741E-08	7.4493E+16	1.5214E+10
Ru-105	1.9680E-01	2.9277E-11	1.6791E+14	7.2815E+09
Ru-106	1.7134E-01	5.1214E-08	2.9096E+17	6.3396E+09
Rh-105	2.6725E-01	3.1663E-10	1.8160E+15	9.8883E+09
Sb-127	4.6227E-01	1.7310E-09	8.2082E+15	1.7104E+10
Sb-129	9.7390E-01	1.7319E-10	8.0849E+14	3.6034E+10
Te-127	4.6653E-01	1.7678E-10	8.3825E+14	1.7262E+10
Te-127m	8.0230E-02	8.5056E-09	4.0332E+16	2.9685E+09
Te-129	1.0906E+00	5.2077E-11	2.4311E+14	4.0353E+10
Te-129m	2.6289E-01	8.7266E-09	4.0739E+16	9.7270E+09
Te-131m	9.2349E-01	1.1581E-09	5.3239E+15	3.4169E+10
Te-132	6.9384E+00	2.2854E-08	1.0427E+17	2.5672E+11
I-131	1.1041E+02	8.9058E-07	4.0940E+18	4.0852E+12
I-132	7.2328E+01	7.0071E-09	3.1968E+16	2.6762E+12
I-133	1.8578E+02	1.6400E-07	7.4259E+17	6.8740E+12
I-134	4.4081E+01	1.6524E-09	7.4261E+15	1.6310E+12
I-135	1.1762E+02	3.3492E-08	1.4940E+17	4.3519E+12
Xe-133	2.7976E+05	1.4946E-03	6.7674E+21	1.0351E+16
Xe-133m	8.0020E+03	1.8176E-05	8.2299E+19	2.9607E+14
Xe-135	7.1292E+04	2.7917E-05	1.2453E+20	2.6378E+15
Xe-135m	5.4664E+02	6.0048E-09	2.6787E+16	2.0226E+13
Xe-138	2.4322E+02	2.5348E-09	1.1062E+16	8.9992E+12
Cs-134	7.4818E+00	5.7827E-06	2.5988E+19	2.7683E+11
Cs-136	2.2709E+00	3.0985E-08	1.3720E+17	8.4024E+10
Cs-137	5.8091E+00	6.6785E-05	2.9357E+20	2.1494E+11
Ba-139	1.5184E+00	9.2828E-11	4.0218E+14	5.6180E+10
Ba-140	3.7207E+00	5.0823E-08	2.1862E+17	1.3767E+11
La-140	1.6157E-01	2.9069E-10	1.2504E+15	5.9782E+09
La-141	2.2698E-02	4.0136E-12	1.7142E+13	8.3984E+08
La-142	1.4618E-02	1.0212E-12	4.3307E+12	5.4086E+08
Ce-141	8.8410E-02	3.1028E-09	1.3252E+16	3.2712E+09
Ce-143	8.0520E-02	1.2125E-10	5.1062E+14	2.9793E+09
Ce-144	7.0938E-02	2.2241E-08	9.3014E+16	2.6247E+09
Pr-143	3.3983E-02	5.0466E-10	2.1253E+15	1.2574E+09
Nd-147	1.3660E-02	1.6885E-10	6.9173E+14	5.0541E+08
Np-239	9.6864E-01	4.1753E-09	1.0521E+16	3.5840E+10
Pu-238	2.2049E-04	1.2879E-08	3.2589E+16	8.1582E+06
Pu-239	2.2245E-05	3.5789E-07	9.0178E+17	8.2306E+05
Pu-240	3.9280E-05	1.7246E-08	4.3274E+16	1.4534E+06
Pu-241	8.7267E-03	8.8244E-08	2.2051E+17	3.2289E+08
Am-241	4.9402E-06	1.4420E-09	3.6034E+15	1.8279E+05
Cm-242	1.3554E-03	4.0947E-10	1.0190E+15	5.0151E+07
Cm-244	8.9676E-05	1.0956E-09	2.7040E+15	3.3180E+06

Environment Transport Group Inventory:

	Total	Release
Time (h) = 16.0000	Release	Rate/s
Noble gases (atoms)	5.0412E+22	8.7521E+17
Elemental I (atoms)	5.6333E+17	9.7801E+12
Organic I (atoms)	2.7799E+18	4.8261E+13
Aerosols (kg)	7.5799E-05	1.3160E-09
Dose Effective (Ci) I-131 (Thyroid)		1.4521E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.7321E+02
Total I (Ci)		5.3022E+02

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7997E+22
Elemental I (atoms)	1.3588E+17	1.3588E+17
Organic I (atoms)	0.0000E+00	1.0062E+18
Aerosols (kg)	1.9726E-04	7.2775E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

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Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.4695E+20
Elemental I (atoms)	4.7504E+14	4.7504E+14
Organic I (atoms)	0.0000E+00	4.0914E+16
Aerosols (kg)	1.9554E-06	3.2869E-07

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5448E+22
Elemental I (atoms)	2.1022E+17	2.1022E+17
Organic I (atoms)	0.0000E+00	8.4951E+17
Aerosols (kg)	4.2970E-04	1.4227E-06

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7940E+19
Elemental I (atoms)	3.0047E+14	3.0815E+12
Organic I (atoms)	1.0119E+15	1.0224E+13
Aerosols (kg)	6.2172E-08	6.5170E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3223E+18
Elemental I (atoms)	0.0000E+00	5.6220E+13
Organic I (atoms)	0.0000E+00	1.8928E+14
Aerosols (kg)	0.0000E+00	1.1638E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	1.5904E+19	0.0000E+00
Elemental I (atoms)	3.7894E+13	0.0000E+00
Organic I (atoms)	1.1414E+14	0.0000E+00
Aerosols (kg)	8.5818E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6165E+22
Elemental I (atoms)	2.1936E+17	2.1936E+17
Organic I (atoms)	0.0000E+00	8.8884E+17
Aerosols (kg)	4.4804E-04	1.7994E-06

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	5.7320E-03	2.8237E-13	2.0488E+12	2.4654E+14
Kr-85m	4.2193E-01	5.1270E-11	3.6324E+14	2.1242E+15
Kr-85	2.5356E-01	6.4689E-07	4.5831E+18	4.0308E+14
Kr-87	1.6506E-03	5.8272E-14	4.0336E+11	5.1987E+14
Kr-88	2.7692E-01	2.2084E-11	1.5113E+14	3.1511E+15
Rb-86	1.8120E-07	2.2270E-15	1.5594E+10	4.4023E+09
Rb-88	8.0340E-01	6.6552E-12	4.5544E+13	2.6308E+15
Sr-89	8.5229E-06	2.9336E-13	1.9850E+12	1.4074E+11
Sr-90	9.2009E-07	6.7452E-12	4.5134E+13	1.5095E+10
Sr-91	3.2989E-06	9.1005E-16	6.0224E+09	1.2760E+11
Sr-92	1.8330E-07	1.4583E-17	9.5459E+07	7.0746E+10
Y-90	1.4042E-07	2.5810E-16	1.7270E+09	6.6255E+08
Y-91	1.2414E-07	5.0619E-15	3.3498E+10	1.8506E+09
Y-92	8.3929E-07	8.7223E-17	5.7094E+08	2.8716E+10
Y-93	4.0111E-08	1.2023E-17	7.7852E+07	1.4726E+09
Zr-95	1.2635E-07	5.8815E-15	3.7284E+10	2.0836E+09
Zr-97	6.3692E-08	3.3317E-17	2.0685E+08	1.6828E+09
Nb-95	1.2552E-07	3.2099E-15	2.0348E+10	2.0591E+09
Mo-99	1.3580E-06	2.8314E-15	1.7223E+10	2.5132E+10
Tc-99m	1.3183E-06	2.5071E-16	1.5251E+09	2.2792E+10
Ru-103	1.3746E-06	4.2590E-14	2.4901E+11	2.2740E+10
Ru-105	8.1504E-08	1.2125E-17	6.9541E+07	8.7864E+09
Ru-106	5.7748E-07	1.7261E-13	9.8065E+11	9.4822E+09
Rh-105	7.6619E-07	9.0774E-16	5.2062E+09	1.4722E+10

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Sb-127	1.4192E-06	5.3145E-15	2.5200E+10	2.5373E+10
Sb-129	3.7948E-07	6.7483E-17	3.1503E+08	4.3204E+10
Te-127	1.5300E-06	5.7974E-16	2.7490E+09	2.5687E+10
Te-127m	2.7067E-07	2.8695E-14	1.3607E+11	4.4404E+09
Te-129	1.2381E-06	5.9117E-17	2.7598E+08	5.1493E+10
Te-129m	8.8083E-07	2.9239E-14	1.3650E+11	1.4549E+10
Te-131m	2.3237E-06	2.9140E-15	1.3396E+10	4.9764E+10
Te-132	2.0938E-05	6.8968E-14	3.1465E+11	3.8025E+11
I-131	9.3612E-04	7.5509E-12	3.4712E+13	3.8596E+12
I-132	1.0190E-04	9.8721E-15	4.5039E+10	2.3706E+12
I-133	1.2046E-03	1.0634E-12	4.8150E+12	6.7152E+12
I-134	7.5501E-09	2.8302E-19	1.2719E+06	9.4302E+11
I-135	3.6241E-04	1.0319E-13	4.6034E+11	4.4149E+12
Xe-133	2.8654E+01	1.5308E-07	6.9314E+17	4.7116E+16
Xe-133m	7.8452E-01	1.7820E-09	8.0686E+15	1.3545E+15
Xe-135	4.6761E+00	1.8311E-09	8.1681E+15	1.2465E+16
Xe-135m	2.7492E-04	3.0200E-15	1.3472E+10	3.0875E+13
Cs-134	1.8563E-05	1.4347E-11	6.4479E+13	4.4286E+11
Cs-136	5.4709E-06	7.4646E-14	3.3054E+11	1.3397E+11
Cs-137	1.4420E-05	1.6578E-10	7.2872E+14	3.4387E+11
Ba-139	4.1647E-09	2.5461E-19	1.1031E+06	4.3430E+10
Ba-140	1.2201E-05	1.6666E-13	7.1690E+11	2.0542E+11
La-140	2.8116E-06	5.0584E-15	2.1759E+10	1.2847E+10
La-141	7.0653E-09	1.2493E-18	5.3358E+06	9.8357E+08
La-142	8.7536E-11	6.1149E-21	2.5933E+04	4.4322E+08
Ce-141	2.9536E-07	1.0366E-14	4.4273E+10	4.8896E+09
Ce-143	2.0815E-07	3.1344E-16	1.3200E+09	4.3501E+09
Ce-144	2.3902E-07	7.4940E-14	3.1340E+11	3.9257E+09
Pr-143	1.1788E-07	1.7505E-15	7.3720E+09	1.8873E+09
Nd-147	4.4590E-08	5.5118E-16	2.2580E+09	7.5385E+08
Np-239	2.7998E-06	1.2068E-14	3.0409E+10	5.2878E+10
Pu-238	7.4392E-10	4.3454E-14	1.0995E+11	1.2204E+07
Pu-239	7.5173E-11	1.2094E-12	3.0474E+12	1.2314E+06
Pu-240	1.3252E-10	5.8183E-14	1.4599E+11	2.1740E+06
Pu-241	2.9439E-08	2.9769E-13	7.4387E+11	4.8299E+08
Am-241	1.6733E-11	4.8843E-15	1.2205E+10	2.7352E+05
Cm-242	4.5627E-09	1.3784E-15	3.4300E+09	7.5004E+07
Cm-244	3.0252E-10	3.6960E-15	9.1220E+09	4.9632E+06

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	5.2930E+18	0.0000E+00
Elemental I (atoms)	3.6420E+12	0.0000E+00
Organic I (atoms)	3.2639E+13	0.0000E+00
Aerosols (kg)	1.9698E-10	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0638E-13
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.1975E-13
Total I (Ci)		2.6051E-03

Deposition Recirculating

Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5827E+13
Organic I (atoms)	0.0000E+00	4.7671E+13
Aerosols (kg)	0.0000E+00	3.5842E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7940E+19
Elemental I (atoms)	3.0047E+14	3.0815E+12
Organic I (atoms)	1.0119E+15	1.0224E+13
Aerosols (kg)	6.2172E-08	6.5170E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3223E+18
Elemental I (atoms)	0.0000E+00	5.6220E+13
Organic I (atoms)	0.0000E+00	1.8928E+14
Aerosols (kg)	0.0000E+00	1.1638E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported

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Noble gases (atoms)	1.5904E+19	0.0000E+00
Elemental I (atoms)	3.7894E+13	0.0000E+00
Organic I (atoms)	1.1414E+14	0.0000E+00
Aerosols (kg)	8.5818E-09	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2785E-01	3.5149E+00	5.4190E-01
Accumulated dose (rem)	2.0021E+00	1.0162E+01	2.3721E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9189E-02	1.6558E-01	4.4562E-02
Accumulated dose (rem)	2.2484E-01	8.0193E-01	2.5607E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.3707E-02	1.1971E+00	1.5107E-01
Accumulated dose (rem)	5.0652E-01	6.1903E+00	1.0141E+00

Environment Integral Nuclide Release:

Time (h) = 24.0000	Ci	kg	Atoms	Bq
Kr-83m	1.4721E+03	7.2517E-08	5.2616E+17	5.4466E+13
Kr-85m	1.3860E+04	1.6842E-06	1.1932E+19	5.1282E+14
Kr-85	4.7514E+03	1.2122E-02	8.5882E+22	1.7580E+14
Kr-87	3.4448E+03	1.2161E-07	8.4181E+17	1.2746E+14
Kr-88	1.8617E+04	1.4847E-06	1.0160E+19	6.8882E+14
Rb-86	8.1700E-02	1.0041E-09	7.0311E+15	3.0229E+09
Rb-88	1.1149E+04	9.2359E-08	6.3205E+17	4.1252E+14
Sr-89	2.9260E+00	1.0071E-07	6.8148E+17	1.0826E+11
Sr-90	3.1403E-01	2.3022E-06	1.5404E+19	1.1619E+10
Sr-91	2.6387E+00	7.2793E-10	4.8172E+15	9.7633E+10
Sr-92	1.8325E+00	1.4579E-10	9.5429E+14	6.7801E+10
Y-90	1.6637E-02	3.0579E-11	2.0461E+14	6.1556E+08
Y-91	3.8447E-02	1.5677E-09	1.0375E+16	1.4225E+09
Y-92	2.1455E-01	2.2297E-11	1.4595E+14	7.9383E+09
Y-93	3.0366E-02	9.1017E-12	5.8938E+13	1.1236E+09
Zr-95	4.3324E-02	2.0167E-09	1.2784E+16	1.6030E+09
Zr-97	3.4336E-02	1.7961E-11	1.1151E+14	1.2704E+09
Nb-95	4.2839E-02	1.0955E-09	6.9447E+15	1.5850E+09
Mo-99	5.1762E-01	1.0792E-09	6.5649E+15	1.9152E+10
Tc-99m	4.7295E-01	8.9945E-11	5.4713E+14	1.7499E+10
Ru-103	4.7269E-01	1.4646E-08	8.5633E+16	1.7490E+10
Ru-105	1.9874E-01	2.9565E-11	1.6957E+14	7.3532E+09
Ru-106	1.9725E-01	5.8959E-08	3.3496E+17	7.2983E+09
Rh-105	2.9899E-01	3.5424E-10	2.0317E+15	1.1063E+10
Sb-127	5.2388E-01	1.9617E-09	9.3021E+15	1.9384E+10
Sb-129	9.8278E-01	1.7477E-10	8.1587E+14	3.6363E+10
Te-127	5.3430E-01	2.0246E-10	9.6002E+14	1.9769E+10
Te-127m	9.2378E-02	9.7935E-09	4.6439E+16	3.4180E+09
Te-129	1.1368E+00	5.4282E-11	2.5341E+14	4.2061E+10
Te-129m	3.0229E-01	1.0034E-08	4.6843E+16	1.1185E+10
Te-131m	1.0177E+00	1.2762E-09	5.8670E+15	3.7654E+10
Te-132	7.8418E+00	2.5830E-08	1.1784E+17	2.9015E+11
I-131	1.7495E+02	1.4111E-06	6.4871E+18	6.4730E+12
I-132	8.0974E+01	7.8447E-09	3.5789E+16	2.9960E+12
I-133	2.5843E+02	2.2813E-07	1.0330E+18	9.5618E+12
I-134	4.4081E+01	1.6524E-09	7.4261E+15	1.6310E+12
I-135	1.3377E+02	3.8092E-08	1.6992E+17	4.9496E+12
Xe-133	5.3880E+05	2.8785E-03	1.3034E+22	1.9936E+16
Xe-133m	1.4853E+04	3.3737E-05	1.5276E+20	5.4955E+14
Xe-135	1.0227E+05	4.0047E-05	1.7865E+20	3.7840E+15
Xe-135m	5.5551E+02	6.1023E-09	2.7221E+16	2.0554E+13
Xe-138	2.4322E+02	2.5348E-09	1.1062E+16	8.9992E+12
Cs-134	8.2196E+00	6.3529E-06	2.8551E+19	3.0412E+11
Cs-136	2.4863E+00	3.3923E-08	1.5021E+17	9.1992E+10
Cs-137	6.3823E+00	7.3375E-05	3.2253E+20	2.3614E+11
Ba-139	1.5184E+00	9.2831E-11	4.0219E+14	5.6182E+10
Ba-140	4.2628E+00	5.8228E-08	2.5047E+17	1.5772E+11
La-140	3.1778E-01	5.7172E-10	2.4593E+15	1.1758E+10
La-141	2.2855E-02	4.0412E-12	1.7260E+13	8.4562E+08
La-142	1.4619E-02	1.0212E-12	4.3309E+12	5.4089E+08
Ce-141	1.0162E-01	3.5663E-09	1.5232E+16	3.7598E+09
Ce-143	8.9036E-02	1.3407E-10	5.6462E+14	3.2943E+09

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Ce-144	8.1662E-02	2.5603E-08	1.0707E+17	3.0215E+09
Pr-143	3.9306E-02	5.8370E-10	2.4581E+15	1.4543E+09
Nd-147	1.5638E-02	1.9330E-10	7.9189E+14	5.7860E+08
Np-239	1.0877E+00	4.6883E-09	1.1813E+16	4.0243E+10
Pu-238	2.5388E-04	1.4830E-08	3.7524E+16	9.3937E+06
Pu-239	2.5621E-05	4.1220E-07	1.0386E+18	9.4797E+05
Pu-240	4.5228E-05	1.9858E-08	4.9827E+16	1.6734E+06
Pu-241	1.0048E-02	1.0161E-07	2.5389E+17	3.7178E+08
Am-241	5.6923E-06	1.6616E-09	4.1520E+15	2.1062E+05
Cm-242	1.5601E-03	4.7129E-10	1.1728E+15	5.7722E+07
Cm-244	1.0325E-04	1.2615E-09	3.1134E+15	3.8204E+06

Environment Transport Group Inventory:

	Total	Release
Time (h) = 24.0000	Release	Rate/s
Noble gases (atoms)	9.9270E+22	1.1490E+18
Elemental I (atoms)	6.8441E+17	7.9214E+12
Organic I (atoms)	5.2192E+18	6.0407E+13
Aerosols (kg)	8.3433E-05	9.6566E-10
Dose Effective (Ci) I-131 (Thyroid)		2.2236E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		2.5882E+02
Total I (Ci)		6.9220E+02

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7270E+22
Elemental I (atoms)	1.3805E+17	1.3805E+17
Organic I (atoms)	0.0000E+00	1.4706E+18
Aerosols (kg)	2.1425E-04	7.9041E-05

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1635E+21
Elemental I (atoms)	5.7248E+14	5.7248E+14
Organic I (atoms)	0.0000E+00	6.1771E+16
Aerosols (kg)	2.8494E-06	4.7895E-07

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4699E+22
Elemental I (atoms)	2.7030E+17	2.7030E+17
Organic I (atoms)	0.0000E+00	1.8187E+18
Aerosols (kg)	5.9300E-04	1.9634E-06

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9249E+19
Elemental I (atoms)	3.2842E+14	3.3639E+12
Organic I (atoms)	1.5749E+15	1.5911E+13
Aerosols (kg)	6.3916E-08	6.6931E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4165E+18
Elemental I (atoms)	0.0000E+00	6.1448E+13
Organic I (atoms)	0.0000E+00	2.9460E+14
Aerosols (kg)	0.0000E+00	1.1964E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	2.7951E+19	0.0000E+00
Elemental I (atoms)	4.3037E+13	0.0000E+00
Organic I (atoms)	1.8669E+14	0.0000E+00
Aerosols (kg)	8.8781E-09	0.0000E+00

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Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6123E+22
Elemental I (atoms)	2.7908E+17	2.7908E+17
Organic I (atoms)	0.0000E+00	1.8934E+18
Aerosols (kg)	6.1181E-04	2.4571E-06

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	3.6546E-04	1.8003E-14	1.3063E+11	2.4866E+14
Kr-85m	1.5381E-01	1.8690E-11	1.3241E+14	2.4138E+15
Kr-85	3.1867E-01	8.1301E-07	5.7601E+18	7.1340E+14
Kr-87	2.6495E-05	9.3536E-16	6.4745E+09	5.2030E+14
Kr-88	4.9393E-02	3.9391E-12	2.6956E+13	3.2950E+15
Rb-86	1.1447E-07	1.4068E-15	9.8514E+09	4.5429E+09
Rb-88	1.4343E-01	1.1881E-12	8.1307E+12	2.7542E+15
Sr-89	6.1054E-06	2.1015E-13	1.4220E+12	1.4790E+11
Sr-90	6.6212E-07	4.8540E-12	3.2480E+13	1.5870E+10
Sr-91	1.3243E-06	3.6533E-16	2.4176E+09	1.2973E+11
Sr-92	1.7047E-08	1.3562E-18	8.8774E+06	7.0815E+10
Y-90	1.4715E-07	2.7047E-16	1.8098E+09	8.0262E+08
Y-91	9.1767E-08	3.7419E-15	2.4763E+10	1.9564E+09
Y-92	1.6222E-07	1.6859E-17	1.1035E+08	2.9119E+10
Y-93	1.6670E-08	4.9966E-18	3.2355E+07	1.4989E+09
Zr-95	9.0601E-08	4.2173E-15	2.6734E+10	2.1898E+09
Zr-97	3.3014E-08	1.7270E-17	1.0722E+08	1.7288E+09
Nb-95	9.0326E-08	2.3099E-15	1.4643E+10	2.1648E+09
Mo-99	8.9852E-07	1.8734E-15	1.1396E+10	2.6231E+10
Tc-99m	9.0001E-07	1.7116E-16	1.0412E+09	2.3820E+10
Ru-103	9.8339E-07	3.0470E-14	1.7815E+11	2.3895E+10
Ru-105	1.6823E-08	2.5027E-18	1.4354E+07	8.8268E+09
Ru-106	4.1532E-07	1.2414E-13	7.0527E+11	9.9686E+09
Rh-105	4.7618E-07	5.6416E-16	3.2357E+09	1.5324E+10
Sb-127	9.6186E-07	3.6018E-15	1.7079E+10	2.6535E+10
Sb-129	7.5657E-08	1.3454E-17	6.2807E+07	4.3389E+10
Te-127	1.0733E-06	4.0667E-16	1.9284E+09	2.6918E+10
Te-127m	1.9475E-07	2.0646E-14	9.7902E+10	4.6684E+09
Te-129	6.5082E-07	3.1077E-17	1.4508E+08	5.2176E+10
Te-129m	6.2977E-07	2.0905E-14	9.7592E+10	1.5288E+10
Te-131m	1.3900E-06	1.7432E-15	8.0134E+09	5.1559E+10
Te-132	1.4037E-05	4.6235E-14	2.1093E+11	3.9730E+11
I-131	1.0268E-03	8.2826E-12	3.8076E+13	4.9116E+12
I-132	9.1162E-05	8.8317E-15	4.0292E+10	2.4813E+12
I-133	1.0412E-03	9.1914E-13	4.1618E+12	7.9174E+12
I-135	1.7674E-04	5.0326E-14	2.2450E+11	4.6921E+12
Xe-133	3.4504E+01	1.8434E-07	8.3466E+17	8.1417E+16
Xe-133m	8.8912E-01	2.0196E-09	9.1444E+15	2.2650E+15
Xe-135	3.1990E+00	1.2527E-09	5.5880E+15	1.6707E+16
Xe-135m	1.1713E-04	1.2867E-15	5.7399E+09	3.1255E+13
Cs-134	1.1869E-05	9.1739E-12	4.1229E+13	4.5735E+11
Cs-136	3.4380E-06	4.6909E-14	2.0772E+11	1.3821E+11
Cs-137	9.2228E-06	1.0603E-10	4.6609E+14	3.5513E+11
Ba-139	5.3640E-11	3.2793E-21	1.4208E+04	4.3431E+10
Ba-140	8.6227E-06	1.1778E-13	5.0664E+11	2.1561E+11
La-140	2.8773E-06	5.1767E-15	2.2268E+10	1.5615E+10
La-141	1.2401E-09	2.1928E-19	9.3656E+05	9.8686E+08
Ce-141	2.1108E-07	7.4080E-15	3.1640E+10	5.1376E+09
Ce-143	1.2662E-07	1.9067E-16	8.0298E+08	4.5121E+09
Ce-144	1.7187E-07	5.3886E-14	2.2535E+11	4.1270E+09
Pr-143	8.5695E-08	1.2726E-15	5.3593E+09	1.9870E+09
Nd-147	3.1421E-08	3.8840E-16	1.5911E+09	7.9104E+08
Np-239	1.8265E-06	7.8733E-15	1.9839E+10	5.5129E+10
Pu-238	5.3538E-10	3.1273E-14	7.9130E+10	1.2830E+07
Pu-239	5.4148E-11	8.7116E-13	2.1951E+12	1.2947E+06
Pu-240	9.5367E-11	4.1871E-14	1.0506E+11	2.2856E+06
Pu-241	2.1185E-08	2.1422E-13	5.3530E+11	5.0779E+08
Am-241	1.2072E-11	3.5239E-15	8.8056E+09	2.8763E+05
Cm-242	3.2789E-09	9.9053E-16	2.4649E+09	7.8845E+07
Cm-244	2.1770E-10	2.6597E-15	6.5644E+09	5.2180E+06

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	6.6096E+18	0.0000E+00
Elemental I (atoms)	1.7065E+12	0.0000E+00
Organic I (atoms)	3.8488E+13	0.0000E+00

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Aerosols (kg)	1.2363E-10	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.1176E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.2264E-13	
Total I (Ci)		2.3359E-03	

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 24.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7974E+13
Organic I (atoms)	0.0000E+00	7.7974E+13
Aerosols (kg)	0.0000E+00	3.7080E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9249E+19
Elemental I (atoms)	3.2842E+14	3.3639E+12
Organic I (atoms)	1.5749E+15	1.5911E+13
Aerosols (kg)	6.3916E-08	6.6931E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4165E+18
Elemental I (atoms)	0.0000E+00	6.1448E+13
Organic I (atoms)	0.0000E+00	2.9460E+14
Aerosols (kg)	0.0000E+00	1.1964E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	2.7951E+19	0.0000E+00
Elemental I (atoms)	4.3037E+13	0.0000E+00
Organic I (atoms)	1.8669E+14	0.0000E+00
Aerosols (kg)	8.8781E-09	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1641E-01	1.3745E+01	1.3573E+00
Accumulated dose (rem)	2.9185E+00	2.3907E+01	3.7293E+00

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5347E-02	3.4839E-01	4.6521E-02
Accumulated dose (rem)	2.6019E-01	1.1503E+00	3.0259E-01

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.4782E-02	2.1317E+00	1.5557E-01
Accumulated dose (rem)	5.9130E-01	8.3220E+00	1.1697E+00

Environment Integral Nuclide Release:

Time (h) = 96.0000	Ci	kg	Atoms	Bq
Kr-83m	1.4725E+03	7.2538E-08	5.2630E+17	5.4481E+13
Kr-85m	1.4334E+04	1.7417E-06	1.2340E+19	5.3034E+14
Kr-85	1.7220E+04	4.3932E-02	3.1125E+23	6.3714E+14
Kr-87	3.4448E+03	1.2161E-07	8.4181E+17	1.2746E+14
Kr-88	1.8708E+04	1.4920E-06	1.0210E+19	6.9219E+14
Rb-86	1.0909E-01	1.3407E-09	9.3882E+15	4.0363E+09
Rb-88	1.1394E+04	9.4383E-08	6.4590E+17	4.2156E+14
Sr-89	4.5069E+00	1.5513E-07	1.0497E+18	1.6675E+11
Sr-90	4.8903E-01	3.5851E-06	2.3989E+19	1.8094E+10
Sr-91	2.7039E+00	7.4591E-10	4.9362E+15	1.0005E+11
Sr-92	1.8327E+00	1.4580E-10	9.5441E+14	6.7809E+10
Y-90	9.7541E-02	1.7928E-10	1.1996E+15	3.6090E+09
Y-91	6.3057E-02	2.5712E-09	1.7016E+16	2.3331E+09
Y-92	2.1766E-01	2.2620E-11	1.4807E+14	8.0533E+09
Y-93	3.1238E-02	9.3631E-12	6.0630E+13	1.1558E+09
Zr-95	6.6885E-02	3.1134E-09	1.9736E+16	2.4748E+09
Zr-97	3.7116E-02	1.9415E-11	1.2054E+14	1.3733E+09
Nb-95	6.6702E-02	1.7058E-09	1.0813E+16	2.4680E+09

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Mo-99	6.8396E-01	1.4261E-09	8.6747E+15	2.5307E+10
Tc-99m	6.4285E-01	1.2226E-10	7.4367E+14	2.3785E+10
Ru-103	7.2583E-01	2.2490E-08	1.3149E+17	2.6856E+10
Ru-105	1.9911E-01	2.9621E-11	1.6989E+14	7.3672E+09
Ru-106	3.0672E-01	9.1679E-08	5.2085E+17	1.1349E+10
Rh-105	3.6650E-01	4.3422E-10	2.4904E+15	1.3561E+10
Sb-127	7.2008E-01	2.6964E-09	1.2786E+16	2.6643E+10
Sb-129	9.8442E-01	1.7506E-10	8.1723E+14	3.6424E+10
Te-127	7.7057E-01	2.9198E-10	1.3845E+15	2.8511E+10
Te-127m	1.4373E-01	1.5238E-08	7.2255E+16	5.3180E+09
Te-129	1.2787E+00	6.1057E-11	2.8504E+14	4.7311E+10
Te-129m	4.6370E-01	1.5392E-08	7.1857E+16	1.7157E+10
Te-131m	1.1960E+00	1.4999E-09	6.8950E+15	4.4253E+10
Te-132	1.0580E+01	3.4851E-08	1.5900E+17	3.9148E+11
I-131	4.5747E+02	3.6901E-06	1.6963E+19	1.6927E+13
I-132	1.0967E+02	1.0625E-08	4.8474E+16	4.0579E+12
I-133	3.7852E+02	3.3414E-07	1.5130E+18	1.4005E+13
I-134	4.4081E+01	1.6524E-09	7.4261E+15	1.6310E+12
I-135	1.4052E+02	4.0013E-08	1.7849E+17	5.1992E+12
Xe-133	1.6524E+06	8.8277E-03	3.9971E+22	6.1138E+16
Xe-133m	3.7199E+04	8.4495E-05	3.8258E+20	1.3764E+15
Xe-135	1.2339E+05	4.8317E-05	2.1553E+20	4.5653E+15
Xe-135m	5.5899E+02	6.1405E-09	2.7392E+16	2.0683E+13
Xe-138	2.4322E+02	2.5348E-09	1.1062E+16	8.9992E+12
Cs-134	1.1217E+01	8.6693E-06	3.8961E+19	4.1501E+11
Cs-136	3.2901E+00	4.4891E-08	1.9878E+17	1.2173E+11
Cs-137	8.7140E+00	1.0018E-04	4.4037E+20	3.2242E+11
Ba-139	1.5184E+00	9.2831E-11	4.0219E+14	5.6182E+10
Ba-140	6.3649E+00	8.6942E-08	3.7398E+17	2.3550E+11
La-140	1.6803E+00	3.0231E-09	1.3004E+16	6.2172E+10
La-141	2.2879E-02	4.0455E-12	1.7278E+13	8.4652E+08
La-142	1.4619E-02	1.0212E-12	4.3309E+12	5.4089E+08
Ce-141	1.5566E-01	5.4629E-09	2.3332E+16	5.7593E+09
Ce-143	1.0623E-01	1.5996E-10	6.7365E+14	3.9305E+09
Ce-144	1.2692E-01	3.9795E-08	1.6642E+17	4.6962E+09
Pr-143	6.1857E-02	9.1860E-10	3.8685E+15	2.2887E+09
Nd-147	2.3201E-02	2.8679E-10	1.1749E+15	8.5842E+08
Np-239	1.4077E+00	6.0678E-09	1.5289E+16	5.2084E+10
Pu-238	3.9542E-04	2.3097E-08	5.8444E+16	1.4631E+07
Pu-239	3.9977E-05	6.4317E-07	1.6206E+18	1.4792E+06
Pu-240	7.0436E-05	3.0925E-08	7.7598E+16	2.6061E+06
Pu-241	1.5647E-02	1.5822E-07	3.9536E+17	5.7892E+08
Am-241	8.9202E-06	2.6038E-09	6.5064E+15	3.3005E+05
Cm-242	2.4212E-03	7.3143E-10	1.8202E+15	8.9585E+07
Cm-244	1.6079E-04	1.9644E-09	4.8483E+15	5.9491E+06

Environment Transport Group Inventory:

	Total	Release
Time (h) = 96.0000	Release	Rate/s
Noble gases (atoms)	3.5184E+23	1.0181E+18
Elemental I (atoms)	8.0573E+17	2.3314E+12
Organic I (atoms)	1.5588E+19	4.5103E+13
Aerosols (kg)	1.1444E-04	3.3112E-10
Dose Effective (Ci) I-131 (Thyroid)		5.2524E+02
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		5.7505E+02
Total I (Ci)		1.1303E+03

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7300E+22
Elemental I (atoms)	1.4578E+17	1.4578E+17
Organic I (atoms)	0.0000E+00	3.1248E+18
Aerosols (kg)	2.8941E-04	1.0677E-04

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9607E+21
Elemental I (atoms)	9.1947E+14	9.1947E+14
Organic I (atoms)	0.0000E+00	1.3604E+17
Aerosols (kg)	6.8043E-06	1.1437E-06

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

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	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3956E+23
Elemental I (atoms)	3.3005E+17	3.3005E+17
Organic I (atoms)	0.0000E+00	6.1409E+18
Aerosols (kg)	9.5540E-04	3.1633E-06

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8699E+19
Elemental I (atoms)	3.4728E+14	3.5543E+12
Organic I (atoms)	3.1858E+15	3.2183E+13
Aerosols (kg)	6.8707E-08	7.1771E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2722E+19
Elemental I (atoms)	0.0000E+00	6.4976E+13
Organic I (atoms)	0.0000E+00	5.9592E+14
Aerosols (kg)	0.0000E+00	1.2860E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	7.8624E+19	0.0000E+00
Elemental I (atoms)	4.6764E+13	0.0000E+00
Organic I (atoms)	4.2685E+14	0.0000E+00
Aerosols (kg)	9.6063E-09	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4216E+23
Elemental I (atoms)	3.3329E+17	3.3329E+17
Organic I (atoms)	0.0000E+00	6.2666E+18
Aerosols (kg)	9.6255E-04	3.8657E-06

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	9.0676E-07	1.1018E-16	7.8064E+08	2.4913E+15
Kr-85	1.2931E-01	3.2989E-07	2.3372E+18	2.0209E+15
Kr-88	4.6819E-10	3.7338E-20	2.5551E+05	3.3124E+15
Rb-86	2.9810E-08	3.6637E-16	2.5655E+09	4.8794E+09
Rb-88	1.3623E-09	1.1285E-20	7.7228E+04	2.7715E+15
Sr-89	1.7975E-06	6.1873E-14	4.1866E+11	1.6718E+11
Sr-90	2.0309E-07	1.4889E-12	9.9625E+12	1.8000E+10
Sr-91	2.1249E-09	5.8619E-19	3.8792E+06	1.3073E+11
Y-90	1.3124E-07	2.4123E-16	1.6141E+09	1.7400E+09
Y-91	2.8266E-08	1.1526E-15	7.6274E+09	2.2558E+09
Y-93	3.6546E-11	1.0954E-20	7.0931E+04	1.5121E+09
Zr-95	2.6907E-08	1.2525E-15	7.9396E+09	2.4770E+09
Zr-97	5.2851E-10	2.7646E-19	1.7164E+06	1.7674E+09
Nb-95	2.7675E-08	7.0775E-16	4.4865E+09	2.4552E+09
Mo-99	1.2941E-07	2.6983E-16	1.6413E+09	2.8318E+10
Tc-99m	1.3268E-07	2.5232E-17	1.5349E+08	2.5840E+10
Ru-103	2.8614E-07	8.8660E-15	5.1837E+10	2.6983E+10
Ru-106	1.2670E-07	3.7871E-14	2.1515E+11	1.1302E+10
Rh-105	3.5800E-08	4.2414E-17	2.4326E+08	1.6195E+10
Sb-127	1.7194E-07	6.4386E-16	3.0531E+09	2.8974E+10
Te-127	2.2319E-07	8.4569E-17	4.0101E+08	2.9738E+10
Te-127m	5.9394E-08	6.2966E-15	2.9858E+10	5.2937E+09
Te-129	1.5707E-07	7.5000E-18	3.5012E+07	5.3494E+10
Te-129m	1.8164E-07	6.0295E-15	2.8148E+10	1.7258E+10
Te-131m	8.0796E-08	1.0132E-16	4.6579E+08	5.3886E+10
Te-132	2.2748E-06	7.4929E-15	3.4184E+10	4.3148E+11
I-131	2.9689E-04	2.3948E-12	1.1009E+13	8.3249E+12
I-132	1.6199E-05	1.5694E-15	7.1598E+09	2.7368E+12
I-133	3.5337E-05	3.1194E-14	1.4124E+11	9.4916E+12
I-135	3.4758E-08	9.8973E-18	4.4150E+07	4.7999E+12
Xe-133	9.4986E+00	5.0745E-08	2.2977E+17	1.9998E+17
Xe-133m	1.4210E-01	3.2277E-10	1.4615E+15	4.7004E+15

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Xe-135	5.3703E-03	2.1029E-12	9.3808E+12	1.9553E+16
Xe-135m	2.0448E-08	2.2463E-19	1.0020E+06	3.1340E+13
Cs-134	3.4458E-06	2.6633E-12	1.1969E+13	4.9401E+11
Cs-136	8.5396E-07	1.1652E-14	5.1594E+10	1.4810E+11
Cs-137	2.6844E-06	3.0862E-11	1.3566E+14	3.8365E+11
Ba-140	2.2470E-06	3.0693E-14	1.3203E+11	2.4136E+11
La-140	1.9754E-06	3.5540E-15	1.5288E+10	3.1484E+10
Ce-141	6.0747E-08	2.1320E-15	9.1057E+09	5.7971E+09
Ce-143	8.5618E-09	1.2893E-17	5.4295E+07	4.7350E+09
Ce-144	5.2344E-08	1.6411E-14	6.8633E+10	4.6782E+09
Pr-143	2.5347E-08	3.7641E-16	1.5852E+09	2.2615E+09
Nd-147	7.9765E-09	9.8599E-17	4.0393E+08	8.8377E+08
Np-239	2.3174E-07	9.9891E-16	2.5170E+09	5.9164E+10
Pu-238	1.6430E-10	9.5974E-15	2.4284E+10	1.4553E+07
Pu-239	1.6700E-11	2.6868E-13	6.7701E+11	1.4695E+06
Pu-240	2.9258E-11	1.2846E-14	3.2233E+10	2.5925E+06
Pu-241	6.4969E-09	6.5697E-14	1.6416E+11	5.7595E+08
Am-241	3.7891E-12	1.1060E-15	2.7638E+09	3.2689E+05
Cm-242	9.9318E-10	3.0003E-16	7.4663E+08	8.9334E+07
Cm-244	6.6768E-11	8.1571E-16	2.0133E+09	5.9185E+06

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump	
Noble gases (atoms)	2.5685E+18	0.0000E+00	
Elemental I (atoms)	5.5791E+10	0.0000E+00	
Organic I (atoms)	1.0625E+13	0.0000E+00	
Aerosols (kg)	3.5676E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.8073E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.8448E-14	
Total I (Ci)		3.4846E-04	

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.9531E+13
Organic I (atoms)	0.0000E+00	1.7828E+14
Aerosols (kg)	0.0000E+00	4.0121E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8699E+19
Elemental I (atoms)	3.4728E+14	3.5543E+12
Organic I (atoms)	3.1858E+15	3.2183E+13
Aerosols (kg)	6.8707E-08	7.1771E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2722E+19
Elemental I (atoms)	0.0000E+00	6.4976E+13
Organic I (atoms)	0.0000E+00	5.9592E+14
Aerosols (kg)	0.0000E+00	1.2860E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	7.8624E+19	0.0000E+00
Elemental I (atoms)	4.6764E+13	0.0000E+00
Organic I (atoms)	4.2685E+14	0.0000E+00
Aerosols (kg)	9.6063E-09	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5176E+00	3.6630E+01	2.7775E+00
Accumulated dose (rem)	4.4361E+00	6.0537E+01	6.5069E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6961E-02	2.6903E-01	2.6215E-02
Accumulated dose (rem)	2.7715E-01	1.4194E+00	3.2880E-01

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Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3729E-02	2.7296E+00	1.5759E-01
Accumulated dose (rem)	6.5503E-01	1.1052E+01	1.3273E+00

Environment Integral Nuclide Release:

Time (h) = 720.0000	Ci	kg	Atoms	Bq
Kr-83m	1.4725E+03	7.2538E-08	5.2630E+17	5.4481E+13
Kr-85m	1.4334E+04	1.7417E-06	1.2340E+19	5.3034E+14
Kr-85	1.1582E+05	2.9548E-01	2.0935E+24	4.2853E+15
Kr-87	3.4448E+03	1.2161E-07	8.4181E+17	1.2746E+14
Kr-88	1.8708E+04	1.4920E-06	1.0210E+19	6.9219E+14
Rb-86	2.3640E-01	2.9053E-09	2.0345E+16	8.7468E+09
Rb-88	1.1394E+04	9.4383E-08	6.4590E+17	4.2156E+14
Sr-89	1.4480E+01	4.9840E-07	3.3724E+18	5.3575E+11
Sr-90	1.8194E+00	1.3338E-05	8.9248E+19	6.7317E+10
Sr-91	2.7043E+00	7.4600E-10	4.9368E+15	1.0006E+11
Sr-92	1.8327E+00	1.4580E-10	9.5441E+14	6.7809E+10
Y-90	1.3595E+00	2.4988E-09	1.6720E+16	5.0303E+10
Y-91	2.2343E-01	9.1108E-09	6.0293E+16	8.2669E+09
Y-92	2.1766E-01	2.2620E-11	1.4807E+14	8.0533E+09
Y-93	3.1244E-02	9.3649E-12	6.0642E+13	1.1560E+09
Zr-95	2.2137E-01	1.0305E-08	6.5322E+16	8.1908E+09
Zr-97	3.7262E-02	1.9492E-11	1.2101E+14	1.3787E+09
Nb-95	2.4343E-01	6.2253E-09	3.9463E+16	9.0068E+09
Mo-99	8.2261E-01	1.7151E-09	1.0433E+16	3.0437E+10
Tc-99m	7.8499E-01	1.4929E-10	9.0812E+14	2.9045E+10
Ru-103	2.2423E+00	6.9478E-08	4.0622E+17	8.2967E+10
Ru-105	1.9911E-01	2.9621E-11	1.6989E+14	7.3672E+09
Ru-106	1.1180E+00	3.3418E-07	1.8986E+18	4.1367E+10
Rh-105	3.8730E-01	4.5885E-10	2.6317E+15	1.4330E+10
Sb-127	9.7344E-01	3.6451E-09	1.7285E+16	3.6017E+10
Sb-129	9.8442E-01	1.7506E-10	8.1723E+14	3.6424E+10
Te-127	1.3828E+00	5.2396E-10	2.4845E+15	5.1163E+10
Te-127m	5.0885E-01	5.3946E-08	2.5581E+17	1.8828E+10
Te-129	2.0831E+00	9.9468E-11	4.6435E+14	7.7074E+10
Te-129m	1.3940E+00	4.6272E-08	2.1601E+17	5.1577E+10
Te-131m	1.2359E+00	1.5499E-09	7.1248E+15	4.5727E+10
Te-132	1.3447E+01	4.4294E-08	2.0208E+17	4.9755E+11
I-131	1.2643E+03	1.0198E-05	4.6881E+19	4.6779E+13
I-132	1.4016E+02	1.3578E-08	6.1947E+16	5.1858E+12
I-133	3.9062E+02	3.4483E-07	1.5613E+18	1.4453E+13
I-134	4.4081E+01	1.6524E-09	7.4261E+15	1.6310E+12
I-135	1.4052E+02	4.0014E-08	1.7849E+17	5.1993E+12
Xe-133	3.8139E+06	2.0375E-02	9.2257E+22	1.4111E+17
Xe-133m	5.1668E+04	1.1736E-04	5.3139E+20	1.9117E+15
Xe-135	1.2348E+05	4.8353E-05	2.1569E+20	4.5687E+15
Xe-135m	5.5899E+02	6.1405E-09	2.7392E+16	2.0683E+13
Xe-138	2.4322E+02	2.5348E-09	1.1062E+16	8.9992E+12
Cs-134	3.3530E+01	2.5916E-05	1.1647E+20	1.2406E+12
Cs-136	6.4001E+00	8.7325E-08	3.8668E+17	2.3680E+11
Cs-137	2.6284E+01	3.0218E-04	1.3283E+21	9.7252E+11
Ba-139	1.5184E+00	9.2831E-11	4.0219E+14	5.6182E+10
Ba-140	1.4437E+01	1.9721E-07	8.4828E+17	5.3417E+11
La-140	1.0638E+01	1.9139E-08	8.2326E+16	3.9360E+11
La-141	2.2879E-02	4.0455E-12	1.7278E+13	8.4652E+08
La-142	1.4619E-02	1.0212E-12	4.3309E+12	5.4089E+08
Ce-141	4.6431E-01	1.6295E-08	6.9598E+16	1.7179E+10
Ce-143	1.1087E-01	1.6696E-10	7.0310E+14	4.1023E+09
Ce-144	4.5980E-01	1.4416E-07	6.0289E+17	1.7013E+10
Pr-143	1.5893E-01	2.3602E-09	9.9395E+15	5.8806E+09
Nd-147	4.9597E-02	6.1308E-10	2.5116E+15	1.8351E+09
Np-239	1.6213E+00	6.9884E-09	1.7609E+16	5.9987E+10
Pu-238	1.4740E-03	8.6099E-08	2.1786E+17	5.4537E+07
Pu-239	1.4981E-04	2.4102E-06	6.0731E+18	5.5430E+06
Pu-240	2.6226E-04	1.1514E-07	2.8892E+17	9.7035E+06
Pu-241	5.8171E-02	5.8823E-07	1.4699E+18	2.1523E+09
Am-241	3.6098E-05	1.0537E-08	2.6330E+16	1.3356E+06
Cm-242	8.5972E-03	2.5972E-09	6.4630E+15	3.1810E+08
Cm-244	5.9792E-04	7.3049E-09	1.8029E+16	2.2123E+07

Environment Transport Group Inventory:

	Total	Release
Time (h) = 720.0000	Release	Rate/s
Noble gases (atoms)	2.1865E+24	8.4355E+17
Elemental I (atoms)	9.4024E+17	3.6275E+11

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Organic I (atoms)	4.4156E+19	1.7035E+13
Aerosols (kg)	3.4710E-04	1.3391E-10
Dose Effective (Ci) I-131 (Thyroid)		1.3343E+03
Dose Effective (Ci) I-131 (ICRP2 Thyroid)		1.3862E+03
Total I (Ci)		1.9797E+03

DW Bypass Pathway 5 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4885E+23
Elemental I (atoms)	1.6634E+17	1.6634E+17
Organic I (atoms)	0.0000E+00	7.5253E+18
Aerosols (kg)	8.6369E-04	3.1864E-04

WW Bypass Pathway 6 to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5602E+22
Elemental I (atoms)	1.8425E+15	1.8425E+15
Organic I (atoms)	0.0000E+00	3.3362E+17
Aerosols (kg)	3.7022E-05	6.2229E-06

MSIV Failed Outboard Volume 2 to Environment (Pat Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.1014E+23
Elemental I (atoms)	3.8702E+17	3.8702E+17
Organic I (atoms)	0.0000E+00	1.8183E+19
Aerosols (kg)	3.1023E-03	1.0271E-05

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9083E+20
Elemental I (atoms)	3.6346E+14	3.7178E+12
Organic I (atoms)	6.6225E+15	6.6897E+13
Aerosols (kg)	9.6590E-08	9.9936E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3857E+19
Elemental I (atoms)	0.0000E+00	6.8003E+13
Organic I (atoms)	0.0000E+00	1.2388E+15
Aerosols (kg)	0.0000E+00	1.8076E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	3.4282E+20	0.0000E+00
Elemental I (atoms)	4.9028E+13	0.0000E+00
Organic I (atoms)	9.0680E+14	0.0000E+00
Aerosols (kg)	1.3494E-08	0.0000E+00

Intact Outboard Volume 4 to Environment (Pathway Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.1233E+23
Elemental I (atoms)	3.8985E+17	3.8985E+17
Organic I (atoms)	0.0000E+00	1.8303E+19
Aerosols (kg)	3.1055E-03	1.2472E-05

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	8.0379E-02	2.0506E-07	1.4529E+18	9.5217E+15
Rb-86	7.0527E-09	8.6678E-17	6.0696E+08	6.0050E+09
Sr-89	7.8250E-07	2.6934E-14	1.8225E+11	2.5527E+11
Sr-90	1.2611E-07	9.2452E-13	6.1862E+12	2.9746E+10
Y-90	1.2677E-07	2.3301E-16	1.5592E+09	1.2810E+10
Y-91	1.2923E-08	5.2696E-16	3.4873E+09	3.6722E+09

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Zr-95	1.2628E-08	5.8780E-16	3.7261E+09	3.8414E+09
Nb-95	1.6034E-08	4.1005E-16	2.5993E+09	4.0150E+09
Mo-99	1.1473E-10	2.3921E-19	1.4551E+06	2.9555E+10
Tc-99m	1.1762E-10	2.2369E-20	1.3607E+05	2.7045E+10
Ru-103	1.1249E-07	3.4855E-15	2.0379E+10	4.0380E+10
Ru-106	7.5043E-08	2.2430E-14	1.2743E+11	1.8465E+10
Sb-127	9.9139E-10	3.7124E-18	1.7603E+07	3.1229E+10
Te-127	3.3493E-08	1.2691E-17	6.0179E+07	3.4973E+10
Te-127m	3.1904E-08	3.3823E-15	1.6038E+10	8.5178E+09
Te-129	5.7139E-08	2.7284E-18	1.2737E+07	5.8847E+10
Te-129m	6.6079E-08	2.1935E-15	1.0240E+10	2.5477E+10
Te-132	5.6060E-09	1.8465E-17	8.4243E+07	4.5703E+11
I-131	1.9697E-05	1.5888E-13	7.3037E+11	1.5472E+13
I-132	3.9946E-08	3.8699E-18	1.7655E+07	2.9387E+12
Xe-133	1.9306E-01	1.0314E-09	4.6701E+15	3.6553E+17
Xe-133m	2.7440E-05	6.2328E-14	2.8221E+11	5.8202E+15
Cs-134	2.0909E-06	1.6161E-12	7.2628E+12	6.9102E+11
Cs-136	1.3409E-07	1.8296E-15	8.1015E+09	1.7561E+11
Cs-137	1.6656E-06	1.9149E-11	8.4172E+13	5.3877E+11
Ba-140	3.3966E-07	4.6396E-15	1.9957E+10	3.1277E+11
La-140	3.9455E-07	7.0984E-16	3.0534E+09	1.1006E+11
Ce-141	2.1702E-08	7.6165E-16	3.2530E+09	8.5242E+09
Ce-144	3.0558E-08	9.5809E-15	4.0068E+10	7.6173E+09
Pr-143	4.3329E-09	6.4345E-17	2.7098E+08	3.1201E+09
Nd-147	9.6113E-10	1.1881E-17	4.8671E+07	1.1174E+09
Np-239	6.8441E-11	2.9501E-19	7.4335E+05	6.1075E+10
Pu-238	1.0247E-10	5.9854E-15	1.5145E+10	2.4075E+07
Pu-239	1.0426E-11	1.6774E-13	4.2266E+11	2.4391E+06
Pu-240	1.8200E-11	7.9909E-15	2.0051E+10	4.2860E+06
Pu-241	4.0278E-09	4.0729E-14	1.0177E+11	9.5138E+08
Am-241	2.8162E-12	8.2206E-16	2.0542E+09	5.6674E+05
Cm-242	5.5310E-10	1.6709E-16	4.1579E+08	1.4387E+08
Cm-244	4.1415E-11	5.0598E-16	1.2488E+09	9.7778E+06

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.4575E+18	0.0000E+00
Elemental I (atoms)	3.2518E+09	0.0000E+00
Organic I (atoms)	6.9605E+11	0.0000E+00
Aerosols (kg)	2.1998E-11	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.8257E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.8258E-15
Total I (Ci)		1.9737E-05

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.0477E+13
Organic I (atoms)	0.0000E+00	3.7873E+14
Aerosols (kg)	0.0000E+00	5.6357E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9083E+20
Elemental I (atoms)	3.6346E+14	3.7178E+12
Organic I (atoms)	6.6225E+15	6.6897E+13
Aerosols (kg)	9.6590E-08	9.9936E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3857E+19
Elemental I (atoms)	0.0000E+00	6.8003E+13
Organic I (atoms)	0.0000E+00	1.2388E+15
Aerosols (kg)	0.0000E+00	1.8076E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	3.4282E+20	0.0000E+00
Elemental I (atoms)	4.9028E+13	0.0000E+00
Organic I (atoms)	9.0680E+14	0.0000E+00
Aerosols (kg)	1.3494E-08	0.0000E+00

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 I-131 Summary
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Time (hr)	DW I-131 (Curies)	WW I-131 (Curies)	Dummy I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4388E-02
0.017	1.8470E+05	0.0000E+00	3.1068E+01
0.083	9.2044E+05	0.0000E+00	7.7245E+02
0.333	3.6817E+06	0.0000E+00	1.0817E+03
0.500	6.8012E+05	0.0000E+00	1.2134E+03
0.750	9.4093E+05	0.0000E+00	1.3319E+03
1.000	9.4889E+05	0.0000E+00	1.4580E+03
1.400	9.5870E+05	0.0000E+00	1.6614E+03
1.700	9.6603E+05	0.0000E+00	1.8151E+03
2.000	9.7334E+05	0.0000E+00	1.9699E+03
2.250	5.9162E+04	4.0983E+04	2.0106E+03
2.400	6.0403E+04	3.7668E+04	2.0170E+03
2.700	6.0349E+04	3.7597E+04	2.0298E+03
3.000	6.0272E+04	3.7549E+04	2.0426E+03
3.300	6.0196E+04	3.7501E+04	2.0553E+03
3.600	6.0119E+04	3.7454E+04	2.0680E+03
3.900	6.0043E+04	3.7406E+04	2.0806E+03
4.000	6.0017E+04	3.7390E+04	2.0848E+03
4.300	5.9941E+04	3.7343E+04	2.0974E+03
4.600	5.9865E+04	3.7295E+04	2.1100E+03
4.900	5.9789E+04	3.7248E+04	2.1226E+03
5.200	5.9713E+04	3.7200E+04	2.1351E+03
5.500	5.9637E+04	3.7153E+04	2.1476E+03
5.800	5.9561E+04	3.7106E+04	2.1600E+03
6.100	5.9485E+04	3.7058E+04	2.1725E+03
6.400	5.9409E+04	3.7011E+04	2.1848E+03
6.700	5.9334E+04	3.6964E+04	2.1972E+03
7.000	5.9258E+04	3.6917E+04	2.2095E+03
7.300	5.9183E+04	3.6870E+04	2.2218E+03
7.600	5.9107E+04	3.6823E+04	2.2341E+03
7.900	5.9032E+04	3.6776E+04	2.2463E+03
8.000	5.9007E+04	3.6761E+04	2.2504E+03
8.300	5.8932E+04	3.6714E+04	2.2626E+03
8.600	5.8857E+04	3.6667E+04	2.2747E+03
8.900	5.8782E+04	3.6621E+04	2.2868E+03
9.200	5.8707E+04	3.6574E+04	2.2989E+03
9.500	5.8632E+04	3.6527E+04	2.3110E+03
9.800	5.8558E+04	3.6481E+04	2.3230E+03
10.100	5.8483E+04	3.6434E+04	2.3350E+03
10.400	5.8409E+04	3.6388E+04	2.3470E+03
16.000	5.7035E+04	3.5532E+04	2.5647E+03
24.000	5.5126E+04	3.4343E+04	2.8574E+03
96.000	4.1555E+04	2.5888E+04	3.4615E+03
720.000	3.5475E+03	2.2101E+03	1.3916E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSIV Failed Inboard V I-131 (Curies)
0.000	2.3498E-05	1.6302E-08	2.2613E-04
0.017	2.1230E-02	1.4715E-05	2.0418E-01
0.083	5.2789E-01	1.0613E-04	5.0649E+00
0.333	8.4487E+00	1.4941E-03	8.0334E+01
0.500	1.1862E+01	2.0073E-03	1.1108E+02
0.750	1.5024E+01	2.3879E-03	1.3718E+02
1.000	1.8456E+01	2.7819E-03	1.6444E+02
1.400	2.4150E+01	3.3781E-03	2.0699E+02
1.700	2.8593E+01	3.8018E-03	2.3807E+02
2.000	3.3190E+01	4.2088E-03	2.6844E+02
2.250	3.4352E+01	3.9789E-03	2.6808E+02
2.400	3.4749E+01	3.8162E-03	2.6499E+02
2.700	3.5578E+01	3.5199E-03	2.5896E+02
3.000	3.6453E+01	3.2594E-03	2.5311E+02
3.300	3.7375E+01	3.0310E-03	2.4744E+02
3.600	3.8343E+01	2.8314E-03	2.4195E+02
3.900	3.9358E+01	2.6575E-03	2.3663E+02
4.000	3.9707E+01	2.6048E-03	2.3490E+02
4.300	4.0782E+01	2.4612E-03	2.2980E+02
4.600	4.1903E+01	2.3375E-03	2.2486E+02
4.900	4.3069E+01	2.2316E-03	2.2007E+02
5.200	4.4278E+01	2.1416E-03	2.1543E+02
5.500	4.5531E+01	2.0658E-03	2.1094E+02

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5.800	4.6826E+01	2.0027E-03	2.0659E+02
6.100	4.8164E+01	1.9509E-03	2.0237E+02
6.400	4.9543E+01	1.9091E-03	1.9828E+02
6.700	5.0962E+01	1.8763E-03	1.9432E+02
7.000	5.2420E+01	1.8513E-03	1.9048E+02
7.300	5.3918E+01	1.8334E-03	1.8676E+02
7.600	5.5453E+01	1.8217E-03	1.8315E+02
7.900	5.7026E+01	1.8154E-03	1.7965E+02
8.000	5.7558E+01	1.8144E-03	1.7851E+02
8.300	5.9179E+01	1.6977E-03	1.7516E+02
8.600	6.0834E+01	1.5944E-03	1.7191E+02
8.900	6.2524E+01	1.5031E-03	1.6877E+02
9.200	6.4248E+01	1.4227E-03	1.6571E+02
9.500	6.6003E+01	1.3519E-03	1.6276E+02
9.800	6.7791E+01	1.2897E-03	1.5989E+02
10.100	6.9609E+01	1.2352E-03	1.5711E+02
10.400	7.1457E+01	1.1876E-03	1.5442E+02
16.000	1.1041E+02	9.3612E-04	1.1678E+02
24.000	1.7495E+02	1.0268E-03	8.9249E+01
96.000	4.5747E+02	2.9689E-04	5.3722E+01
720.000	1.2643E+03	1.9697E-05	4.5572E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volum I-131 (Curies)
0.000	4.3473E-09	2.2612E-04	5.1186E-09
0.017	1.1791E-04	2.0416E-01	1.3883E-04
0.083	1.4542E-02	5.0623E+00	1.7126E-02
0.333	9.1136E-01	8.0171E+01	1.0739E+00
0.500	2.5825E+00	1.1062E+02	3.0447E+00
0.750	5.5533E+00	1.3616E+02	6.5531E+00
1.000	9.0386E+00	1.6277E+02	1.0675E+01
1.400	1.5597E+01	2.0407E+02	1.8443E+01
1.700	2.1223E+01	2.3405E+02	2.5117E+01
2.000	2.7388E+01	2.6320E+02	3.2436E+01
2.250	3.2607E+01	2.6177E+02	3.8642E+01
2.400	3.5545E+01	2.5808E+02	4.2141E+01
2.700	4.0980E+01	2.5088E+02	4.8625E+01
3.000	4.5864E+01	2.4394E+02	5.4463E+01
3.300	5.0239E+01	2.3726E+02	5.9705E+01
3.600	5.4146E+01	2.3082E+02	6.4395E+01
3.900	5.7623E+01	2.2461E+02	6.8576E+01
4.000	5.8692E+01	2.2260E+02	6.9863E+01
4.300	6.1648E+01	2.1669E+02	7.3425E+01
4.600	6.4250E+01	2.1101E+02	7.6564E+01
4.900	6.6527E+01	2.0553E+02	7.9315E+01
5.200	6.8507E+01	2.0025E+02	8.1707E+01
5.500	7.0213E+01	1.9516E+02	8.3769E+01
5.800	7.1670E+01	1.9026E+02	8.5529E+01
6.100	7.2897E+01	1.8553E+02	8.7011E+01
6.400	7.3916E+01	1.8098E+02	8.8238E+01
6.700	7.4743E+01	1.7659E+02	8.9232E+01
7.000	7.5397E+01	1.7237E+02	9.0012E+01
7.300	7.5892E+01	1.6829E+02	9.0597E+01
7.600	7.6243E+01	1.6437E+02	9.1005E+01
7.900	7.6463E+01	1.6059E+02	9.1251E+01
8.000	7.6509E+01	1.5936E+02	9.1300E+01
8.300	7.6574E+01	1.5576E+02	9.1353E+01
8.600	7.6535E+01	1.5228E+02	9.1277E+01
8.900	7.6402E+01	1.4894E+02	9.1085E+01
9.200	7.6186E+01	1.4572E+02	9.0788E+01
9.500	7.5894E+01	1.4261E+02	9.0396E+01
9.800	7.5534E+01	1.3961E+02	8.9920E+01
10.100	7.5115E+01	1.3672E+02	8.9368E+01
10.400	7.4642E+01	1.3394E+02	8.8749E+01
16.000	6.1586E+01	9.6912E+01	7.1892E+01
24.000	4.5455E+01	7.2786E+01	5.1495E+01
96.000	2.4096E+01	4.5412E+01	2.7244E+01
720.000	2.0339E+00	3.8665E+00	2.3107E+00

Cumulative Dose Summary
#####

	EAB		LPZ		CR	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.3625E-03	7.2579E-05	1.8548E-04	9.8805E-06	1.6332E-05	6.9592E-07

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```

0.083 3.3859E-02 1.7891E-03 4.6094E-03 2.4356E-04 6.2163E-04 2.7314E-05
0.333 5.4072E-01 2.7884E-02 7.3610E-02 3.7960E-03 3.0486E-02 1.3474E-03
0.500 7.5868E-01 4.0680E-02 1.0328E-01 5.5380E-03 8.5434E-02 3.7953E-03
0.750 9.6693E-01 6.2183E-02 1.3163E-01 8.4652E-03 1.8349E-01 8.4991E-03
1.000 1.1933E+00 9.5069E-02 1.6246E-01 1.2942E-02 2.9989E-01 1.5063E-02
1.400 1.5674E+00 1.6628E-01 2.1338E-01 2.2636E-02 5.2272E-01 3.0901E-02
1.700 1.8576E+00 2.3214E-01 2.5288E-01 3.1602E-02 7.1753E-01 4.8282E-02
2.000 2.1565E+00 3.0749E-01 2.9357E-01 4.1860E-02 9.3471E-01 7.1047E-02
2.250 2.2306E+00 3.4656E-01 3.0367E-01 4.7179E-02 1.1198E+00 9.2979E-02
2.400 2.2555E+00 3.6816E-01 3.0705E-01 5.0120E-02 1.2250E+00 1.0639E-01
2.700 2.3071E+00 4.1133E-01 3.1408E-01 5.5996E-02 1.4223E+00 1.3336E-01
3.000 2.3615E+00 4.5410E-01 3.2148E-01 6.1819E-02 1.6039E+00 1.6039E-01
3.300 2.4185E+00 4.9632E-01 3.2924E-01 6.7566E-02 1.7719E+00 1.8725E-01
3.600 2.4782E+00 5.3793E-01 3.3737E-01 7.3231E-02 1.9278E+00 2.1383E-01
3.900 2.5405E+00 5.7894E-01 3.4585E-01 7.8814E-02 2.0732E+00 2.4009E-01
4.000 2.5619E+00 5.9248E-01 3.4876E-01 8.0657E-02 2.1196E+00 2.4876E-01
4.300 2.6276E+00 6.3273E-01 3.5771E-01 8.6136E-02 2.2531E+00 2.7455E-01
4.600 2.6959E+00 6.7242E-01 3.6700E-01 9.1539E-02 2.3790E+00 2.9999E-01
4.900 2.7667E+00 7.1157E-01 3.7664E-01 9.6869E-02 2.4985E+00 3.2508E-01
5.200 2.8399E+00 7.5020E-01 3.8660E-01 1.0213E-01 2.6124E+00 3.4981E-01
5.500 2.9155E+00 7.8831E-01 3.9689E-01 1.0732E-01 2.7215E+00 3.7421E-01
5.800 2.9934E+00 8.2590E-01 4.0750E-01 1.1243E-01 2.8266E+00 3.9827E-01
6.100 3.0736E+00 8.6298E-01 4.1842E-01 1.1748E-01 2.9284E+00 4.2199E-01
6.400 3.1560E+00 8.9954E-01 4.2964E-01 1.2246E-01 3.0273E+00 4.4539E-01
6.700 3.2406E+00 9.3558E-01 4.4116E-01 1.2737E-01 3.1239E+00 4.6845E-01
7.000 3.3273E+00 9.7110E-01 4.5296E-01 1.3220E-01 3.2187E+00 4.9120E-01
7.300 3.4161E+00 1.0061E+00 4.6505E-01 1.3697E-01 3.3120E+00 5.1362E-01
7.600 3.5069E+00 1.0406E+00 4.7740E-01 1.4166E-01 3.4042E+00 5.3571E-01
7.900 3.5996E+00 1.0745E+00 4.9002E-01 1.4628E-01 3.4957E+00 5.5749E-01
8.000 3.6309E+00 1.0857E+00 4.9429E-01 1.4781E-01 3.5260E+00 5.6468E-01
8.300 3.7261E+00 1.1190E+00 4.9877E-01 1.5071E-01 3.6139E+00 5.8550E-01
8.600 3.8231E+00 1.1517E+00 5.0334E-01 1.5356E-01 3.6960E+00 6.0489E-01
8.900 3.9218E+00 1.1840E+00 5.0799E-01 1.5636E-01 3.7731E+00 6.2284E-01
9.200 4.0223E+00 1.2157E+00 5.1273E-01 1.5911E-01 3.8457E+00 6.3947E-01
9.500 4.1244E+00 1.2469E+00 5.1753E-01 1.6181E-01 3.9143E+00 6.5490E-01
9.800 4.2280E+00 1.2776E+00 5.2242E-01 1.6447E-01 3.9794E+00 6.6925E-01
10.100 4.3332E+00 1.3079E+00 5.2737E-01 1.6708E-01 4.0415E+00 6.8264E-01
10.400 4.4399E+00 1.3376E+00 5.3240E-01 1.6964E-01 4.1009E+00 6.9517E-01
16.000 6.6467E+00 1.8302E+00 6.3635E-01 2.1151E-01 4.9932E+00 8.6305E-01
24.000 1.0162E+01 2.3721E+00 8.0193E-01 2.5607E-01 6.1903E+00 1.0141E+00
96.000 2.3907E+01 3.7293E+00 1.1503E+00 3.0259E-01 8.3220E+00 1.1697E+00
720.000 6.0537E+01 6.5069E+00 1.4194E+00 3.2880E-01 1.1052E+01 1.3273E+00

```

```

#####
Worst Two-Hour Doses
#####

```

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
1.0	3.0461E-01	1.1681E+00	3.5903E-01

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Attachment 13.5 - RADTRAD Output File "NMP2MS01.o0"

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 8:56:04
#####

#####
File information
#####

Plant file           = C:\radtrad3.03\NMP2\Rev 4\NMP2MS01.psf
Inventory file       = c:\radtrad3.03\nmp2\nmp2.nif
Release file        = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      # #      # #####      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak
Rate Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
0
0
Compartment 5:
CR
```


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```

1
3.8100E+05
0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
0
Compartment 9:
Intact Outboard Volume 4
3
4.8703E+02
0
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment (Released to Dummy)
1
3
2
Pathway 6:
WW Bypass Pathway 6 to Environment (Released to Dummy)
2
3
2
Pathway 7:
DW to MSIV Failed Inboard Volume 1
1

```

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6
2
Pathway 8:
MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2
Pathway 9:
MSIV Failed Outboard Volume 2 to Environment (Pathway 7)

7
4
2

Pathway 10:
DW to Intact Inboard Volume 3

1
8
2

Pathway 11:
Intact Inboard Volume 3 to Intact Outboard Volume 4

8
9
2

Pathway 12:
CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:
CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:
CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:
Intact Outboard Volume 4 to Environment (Pathway 8)

9
4
2

End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

9
Compartment 1:

0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5

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```

0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  1.9800E+01
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
0
Compartment 4:
0
1
0
0
0
0
0
0
0
0
0
Compartment 5:
1
1
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Compartment 6:
0
1
0
0
0
0
0
0
0
0
0
Compartment 7:
0
1
0
0
0
0
0
0
0
0
Compartment 8:

```

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0
1
0
0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0

Pathway 4:

0
0
0
0

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```

0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
2.4000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
9.6000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 8:
0
0
0
0
0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00

```


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```

0
0
0
Pathway 13:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 15:
0
0
0
0
0
1
5
0.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
2.4000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
9.6000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4
1

```

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5
 0.0000E+00 1.6200E-05
 8.0000E+00 1.0900E-05
 2.4000E+01 4.5900E-06
 9.6000E+01 1.3300E-06
 7.2000E+02 0.0000E+00

1

4

0.0000E+00 3.5000E-04
 8.0000E+00 1.8000E-04
 2.4000E+01 2.3000E-04
 7.2000E+02 0.0000E+00

0

Location 3:

CR

5

0

1

2

0.0000E+00 3.5000E-04
 7.2000E+02 0.0000E+00

1

4

0.0000E+00 1.0000E+00
 2.4000E+01 6.0000E-01
 9.6000E+01 4.0000E-01
 7.2000E+02 0.0000E+00

Effective Volume Location:

1

6

0.0000E+00 1.4700E-03
 2.0000E+00 9.7400E-04
 8.0000E+00 3.6300E-04
 2.4000E+01 2.4500E-04
 9.6000E+01 1.9000E-04
 7.2000E+02 0.0000E+00

Simulation Parameters:

7

0.0000E+00 1.0000E-02
 1.0000E+00 1.0000E-01
 2.0000E+00 5.0000E-01
 8.0000E+00 1.0000E+00
 2.4000E+01 2.0000E+00
 9.6000E+01 5.0000E+00
 7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o637

1

1

1

0

0

End of Scenario File

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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 8:56:04
#####
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

Name: MSIV Failed Inboard Volume 1

Compartment volume = 3.9068E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 6

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Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7

Name: MSIV Failed Outboard Volume 2

Compartment volume = 4.2841E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 7

Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Compartment number 8

Name: Intact Inboard Volume 3

Compartment volume = 3.3181E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 8

Inlet Pathway Number 10: DW to Intact Inboard Volume 3

Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9

Name: Intact Outboard Volume 4

Compartment volume = 4.8703E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 9

Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 8:56:04
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00

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9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00

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1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 8:56:04
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8009E-11	4.3532E-10	4.2367E-11	
Accumulated dose (rem)	2.8009E-11	4.3532E-10	4.2367E-11	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8130E-12	5.9263E-11	5.7676E-12	
Accumulated dose (rem)	3.8130E-12	5.9263E-11	5.7676E-12	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5562E-14	3.6843E-12	1.3710E-13	
Accumulated dose (rem)	1.5562E-14	3.6843E-12	1.3710E-13	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-85m	5.4273E-11	6.5949E-21	4.6724E+04	5.6742E+01	
Kr-85	2.7505E-12	7.0171E-18	4.9716E+07	2.8736E+00	
Kr-87	1.0879E-10	3.8406E-21	2.6584E+04	1.1394E+02	
Kr-88	1.4855E-10	1.1847E-20	8.1073E+04	1.5537E+02	
I-131	4.7422E-12	3.8252E-20	1.7584E+05	4.9546E+00	
I-133	9.8283E-12	8.6760E-21	3.9284E+04	1.0270E+01	
I-135	9.2770E-12	2.6416E-21	1.1784E+04	9.6969E+00	
Xe-133	3.3649E-10	1.7977E-18	8.1397E+06	3.5156E+02	
Xe-133m	1.0321E-11	2.3443E-20	1.0615E+05	1.0783E+01	
Xe-135	1.4150E-10	5.5408E-20	2.4717E+05	1.4781E+02	
Xe-138	2.8749E-10	2.9962E-21	1.3075E+04	3.0435E+02	
Cs-134	1.3656E-13	1.0554E-19	4.7433E+05	1.4267E-01	
Cs-137	1.0602E-13	1.2188E-18	5.3576E+06	1.1076E-01	

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	5.8388E+07	0.0000E+00	
Elemental I (atoms)	1.9237E+05	0.0000E+00	
Organic I (atoms)	1.1899E+04	0.0000E+00	
Aerosols (kg)	1.3310E-18	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.2090E-22	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.9517E-22	
Total I (Ci)		4.1853E-11	

	Deposition	Recirculating
Time (h) =	0.0167	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	0.0167
Noble gases (atoms)	Filtered Transported
	0.0000E+00 4.3815E+07

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Elemental I (atoms)	0.0000E+00	1.4438E+05
Organic I (atoms)	0.0000E+00	8.9309E+03
Aerosols (kg)	0.0000E+00	9.9876E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4605E+07
Elemental I (atoms)	0.0000E+00	4.8128E+04
Organic I (atoms)	0.0000E+00	2.9770E+03
Aerosols (kg)	0.0000E+00	3.3292E-19

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	3.2874E+04	0.0000E+00
Elemental I (atoms)	1.0833E+02	0.0000E+00
Organic I (atoms)	6.7008E+00	0.0000E+00
Aerosols (kg)	7.4937E-22	0.0000E+00

EAB Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6105E-08	2.6753E-07	2.4926E-08
Accumulated dose (rem)	1.6133E-08	2.6797E-07	2.4969E-08

LPZ Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1925E-09	3.6421E-08	3.3934E-09
Accumulated dose (rem)	2.1963E-09	3.6480E-08	3.3991E-09

CR Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1988E-11	2.3677E-09	1.3081E-10
Accumulated dose (rem)	5.2003E-11	2.3714E-09	1.3095E-10

CR Compartment Nuclide Inventory:

Time (h) = 0.0833	Ci	kg	Atoms	Decay
Kr-83m	2.2995E-08	1.1328E-18	8.2190E+06	6.6240E+04
Kr-85m	5.2729E-08	6.4073E-18	4.5395E+07	1.5139E+05
Kr-85	2.6999E-09	6.8881E-15	4.8801E+10	7.7332E+03
Kr-87	1.0298E-07	3.6356E-18	2.5165E+07	2.9744E+05
Kr-88	1.4347E-07	1.1442E-17	7.8299E+07	4.1247E+05
Rb-86	2.2146E-13	2.7217E-21	1.9059E+04	6.4245E-01
Rb-88	7.1531E-09	5.9255E-20	4.0550E+05	1.0455E+04
I-131	7.6898E-10	6.2027E-18	2.8514E+07	2.2309E+03
I-132	1.0963E-09	1.0621E-19	4.8454E+05	3.1933E+03
I-133	1.5905E-09	1.4041E-18	6.3575E+06	4.6165E+03
I-134	1.7131E-09	6.4216E-20	2.8859E+05	5.0319E+03
I-135	1.4942E-09	4.2547E-19	1.8980E+06	4.3417E+03
Xe-133	3.3028E-07	1.7645E-15	7.9894E+09	9.4603E+05
Xe-133m	1.0129E-08	2.3007E-17	1.0417E+08	2.9014E+04
Xe-135	1.3958E-07	5.4658E-17	2.4382E+08	3.9946E+05
Xe-135m	6.1580E-08	6.7645E-19	3.0176E+06	1.8060E+05
Xe-138	2.3219E-07	2.4199E-18	1.0560E+07	6.9605E+05
Cs-134	2.2148E-11	1.7118E-17	7.6933E+07	6.4251E+01
Cs-136	6.7565E-12	9.2188E-20	4.0821E+05	1.9601E+01
Cs-137	1.7195E-11	1.9769E-16	8.6897E+08	4.9882E+01

CR Transport Group Inventory:

Time (h) = 0.0833	Atmosphere	Sump
Noble gases (atoms)	5.7310E+10	0.0000E+00
Elemental I (atoms)	3.1154E+07	0.0000E+00
Organic I (atoms)	1.9270E+06	0.0000E+00
Aerosols (kg)	2.1593E-16	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0059E-19
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.2858E-19
Total I (Ci)		6.6631E-09

	Deposition	Recirculating
Time (h) = 0.0833	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.5538E+04

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Organic I (atoms)	0.0000E+00	3.4353E+03
Aerosols (kg)	0.0000E+00	3.8474E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8555E+10
Elemental I (atoms)	1.5808E+08	1.7411E+06
Organic I (atoms)	9.7779E+06	1.0770E+05
Aerosols (kg)	1.0948E-15	1.2057E-17

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9981E+09
Elemental I (atoms)	0.0000E+00	2.9617E+07
Organic I (atoms)	0.0000E+00	1.8320E+06
Aerosols (kg)	0.0000E+00	2.0512E-16

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	2.4079E+08	0.0000E+00
Elemental I (atoms)	1.3308E+05	0.0000E+00
Organic I (atoms)	8.2319E+03	0.0000E+00
Aerosols (kg)	9.2194E-19	0.0000E+00

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2719E-06	6.7043E-05	5.4804E-06
Accumulated dose (rem)		3.2881E-06	6.7311E-05	5.5053E-06

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4542E-07	9.1268E-06	7.4607E-07
Accumulated dose (rem)		4.4762E-07	9.1633E-06	7.4947E-07

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.0961E-08	2.2640E-06	1.1817E-07
Accumulated dose (rem)		4.1013E-08	2.2664E-06	1.1830E-07

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
0.3333				
Kr-83m	5.2174E-06	2.5702E-16	1.8649E+09	5.1154E+07
Kr-85m	1.2634E-05	1.5352E-15	1.0877E+10	1.2233E+08
Kr-85	6.7243E-07	1.7155E-12	1.2154E+13	6.4536E+06
Kr-87	2.2380E-05	7.9010E-16	5.4691E+09	2.2163E+08
Kr-88	3.3617E-05	2.6809E-15	1.8346E+10	3.2716E+08
Rb-86	5.4573E-11	6.7070E-19	4.6966E+06	5.2441E+02
Rb-88	5.0646E-06	4.1954E-17	2.8711E+08	3.5801E+07
I-131	1.8940E-07	1.5278E-15	7.0232E+09	1.8203E+06
I-132	2.5437E-07	2.4643E-17	1.1243E+08	2.4788E+06
I-133	3.8885E-07	3.4326E-16	1.5543E+09	3.7434E+06
I-134	3.4656E-07	1.2991E-17	5.8384E+07	3.4857E+06
I-135	3.5882E-07	1.0217E-16	4.5578E+08	3.4684E+06
Xe-133	8.2235E-05	4.3933E-13	1.9893E+12	7.8931E+08
Xe-133m	2.5206E-06	5.7253E-15	2.5924E+10	2.4197E+07
Xe-135	3.5355E-05	1.3845E-14	6.1758E+10	3.3821E+08
Xe-135m	1.1889E-05	1.3060E-16	5.8259E+08	1.2155E+08
Xe-138	2.7807E-05	2.8980E-16	1.2646E+09	3.1849E+08
Cs-134	5.4601E-09	4.2201E-15	1.8966E+10	5.2463E+04
Cs-136	1.6647E-09	2.2714E-17	1.0058E+08	1.5998E+04
Cs-137	4.2390E-09	4.8735E-14	2.1422E+11	4.0731E+04

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)		1.4270E+13	0.0000E+00
Elemental I (atoms)		7.6376E+09	0.0000E+00
Organic I (atoms)		4.7243E+08	0.0000E+00
Aerosols (kg)		5.3259E-14	0.0000E+00

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Dose Effective (Ci/cc)	I-131 (Thyroid)	2.4690E-17
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.1355E-17
Total I (Ci)		1.5380E-06

	Deposition	Recirculating
Time (h) = 0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.4064E+07
Organic I (atoms)	0.0000E+00	3.3442E+06
Aerosols (kg)	0.0000E+00	3.7644E-16

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2245E+13
Elemental I (atoms)	3.9732E+10	4.0148E+08
Organic I (atoms)	2.4576E+09	2.4834E+07
Aerosols (kg)	2.7640E-13	2.7929E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2676E+12
Elemental I (atoms)	0.0000E+00	7.4321E+09
Organic I (atoms)	0.0000E+00	4.5972E+08
Aerosols (kg)	0.0000E+00	5.1702E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	2.4124E+11	0.0000E+00
Elemental I (atoms)	1.2945E+08	0.0000E+00
Organic I (atoms)	8.0070E+06	0.0000E+00
Aerosols (kg)	9.0132E-16	0.0000E+00

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1382E-05	2.5196E-04	1.9674E-05
Accumulated dose (rem)	1.4670E-05	3.1927E-04	2.5179E-05

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5494E-06	3.4300E-05	2.6783E-06
Accumulated dose (rem)	1.9970E-06	4.3464E-05	3.4278E-06

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3283E-07	1.4265E-05	7.2682E-07
Accumulated dose (rem)	2.7384E-07	1.6531E-05	8.4512E-07

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	2.4358E-05	1.1999E-15	8.7063E+09	3.5502E+08
Kr-85m	6.1165E-05	7.4324E-15	5.2658E+10	8.7491E+08
Kr-85	3.3405E-06	8.5224E-12	6.0380E+13	4.7157E+07
Kr-87	1.0152E-04	3.5841E-15	2.4809E+10	1.5021E+09
Kr-88	1.6034E-04	1.2787E-14	8.7508E+10	2.3112E+09
Rb-86	2.5524E-10	3.1368E-18	2.1966E+07	3.7391E+03
Rb-88	3.3401E-05	2.7669E-16	1.8935E+09	3.6711E+08
I-131	8.8818E-07	7.1642E-15	3.2934E+10	1.2989E+07
I-132	1.1449E-06	1.1092E-16	5.0603E+08	1.7112E+07
I-133	1.8144E-06	1.6017E-15	7.2523E+09	2.6603E+07
I-134	1.4253E-06	5.3429E-17	2.4011E+08	2.2341E+07
I-135	1.6544E-06	4.7110E-16	2.1015E+09	2.4408E+07
Xe-133	4.0844E-04	2.1820E-12	9.8801E+12	5.7666E+09
Xe-133m	1.2514E-05	2.8425E-14	1.2871E+11	1.7673E+08
Xe-135	1.7726E-04	6.9411E-14	3.0963E+11	2.4922E+09
Xe-135m	5.0553E-05	5.5532E-16	2.4772E+09	7.8251E+08
Xe-138	8.4777E-05	8.8353E-16	3.8556E+09	1.5710E+09
Cs-134	2.5543E-08	1.9742E-14	8.8724E+10	3.7414E+05
Cs-136	7.7850E-09	1.0622E-16	4.7035E+08	1.1405E+05

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Cs-137 1.9831E-08 2.2799E-13 1.0022E+12 2.9047E+05

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	7.0878E+13	0.0000E+00	
Elemental I (atoms)	3.5604E+10	0.0000E+00	
Organic I (atoms)	2.3307E+09	0.0000E+00	
Aerosols (kg)	2.4923E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.1552E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.4612E-16	
Total I (Ci)		6.9272E-06	

Deposition Recirculating

Time (h) =	0.5000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	3.9404E+08	
Organic I (atoms)	0.0000E+00	2.4856E+07	
Aerosols (kg)	0.0000E+00	2.7525E-15	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.1338E+13
Elemental I (atoms)	1.8780E+11	1.8972E+09
Organic I (atoms)	1.2277E+10	1.2402E+08
Aerosols (kg)	1.3101E-12	1.3234E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1359E+13
Elemental I (atoms)	0.0000E+00	3.5130E+10
Organic I (atoms)	0.0000E+00	2.2965E+09
Aerosols (kg)	0.0000E+00	2.4506E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	1.8034E+12	0.0000E+00
Elemental I (atoms)	9.4347E+08	0.0000E+00
Organic I (atoms)	5.9512E+07	0.0000E+00
Aerosols (kg)	6.5903E-15	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8450E-03	2.1613E-02	5.5552E-03	
Accumulated dose (rem)	4.8597E-03	2.1933E-02	5.5804E-03	

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5957E-04	2.9423E-03	7.5625E-04	
Accumulated dose (rem)	6.6157E-04	2.9858E-03	7.5968E-04	

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3904E-04	4.9653E-03	6.1288E-04	
Accumulated dose (rem)	3.3931E-04	4.9819E-03	6.1372E-04	

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m	8.3669E-03	4.1218E-13	2.9906E+12	4.9736E+11	
Kr-85m	2.9134E-02	3.5402E-12	2.5082E+13	1.6165E+12	
Kr-85	2.0068E-03	5.1199E-09	3.6274E+16	1.0624E+11	
Kr-87	2.6926E-02	9.5059E-13	6.5800E+12	1.6944E+12	
Kr-88	6.6795E-02	5.3269E-12	3.6454E+13	3.8108E+12	
Rb-86	1.1928E-08	1.4659E-16	1.0265E+09	9.8147E+05	
Rb-88	3.9752E-02	3.2930E-13	2.2535E+12	1.3293E+12	
Sr-89	1.6359E-07	5.6308E-15	3.8101E+10	9.4107E+06	
Sr-90	1.7520E-08	1.2844E-13	8.5942E+11	1.0077E+06	
Sr-91	1.7445E-07	4.8125E-17	3.1848E+08	1.0265E+07	
Sr-92	1.2531E-07	9.9696E-18	6.5259E+07	7.8174E+06	

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Y-90	3.9337E-10	7.2303E-19	4.8380E+06	1.9481E+04
Y-91	2.0932E-09	8.5354E-17	5.6485E+08	1.1980E+05
Y-92	3.0804E-08	3.2013E-18	2.0955E+07	1.4227E+06
Y-93	1.9963E-09	5.9835E-19	3.8746E+06	1.1730E+05
Zr-95	2.4211E-09	1.1270E-16	7.1441E+08	1.3927E+05
Zr-97	2.1535E-09	1.1265E-18	6.9938E+06	1.2545E+05
Nb-95	2.3900E-09	6.1120E-17	3.8745E+08	1.3746E+05
Mo-99	2.9953E-08	6.2452E-17	3.7990E+08	1.7284E+06
Tc-99m	2.6908E-08	5.1174E-18	3.1129E+07	1.5397E+06
Ru-103	2.6444E-08	8.1935E-16	4.7905E+09	1.5213E+06
Ru-105	1.3806E-08	2.0538E-18	1.1779E+07	8.3402E+05
Ru-106	1.1008E-08	3.2903E-15	1.8693E+10	6.3315E+05
Rh-105	1.7504E-08	2.0737E-17	1.1894E+08	1.0070E+06
Sb-127	3.0016E-08	1.1240E-16	5.3297E+08	1.7305E+06
Sb-129	6.8303E-08	1.2146E-17	5.6703E+07	4.1320E+06
Te-127	3.0084E-08	1.1399E-17	5.4055E+07	1.7244E+06
Te-127m	5.1538E-09	5.4639E-16	2.5909E+09	2.9643E+05
Te-129	7.7235E-08	3.6880E-18	1.7217E+07	4.4470E+06
Te-129m	1.6903E-08	5.6108E-16	2.6193E+09	9.7217E+05
Te-131m	6.1143E-08	7.6677E-17	3.5249E+08	3.5420E+06
Te-132	4.5136E-07	1.4867E-15	6.7827E+09	2.6032E+07
I-131	5.3858E-05	4.3442E-13	1.9971E+12	4.0962E+09
I-132	4.9355E-05	4.7815E-15	2.1814E+10	4.1175E+09
I-133	1.0520E-04	9.2870E-14	4.2051E+11	8.1015E+09
I-134	2.6536E-05	9.9474E-16	4.4705E+09	2.9007E+09
I-135	8.6167E-05	2.4536E-14	1.0945E+11	6.8390E+09
Xe-133	2.4391E-01	1.3031E-09	5.9002E+15	1.2929E+13
Xe-133m	7.4081E-03	1.6827E-11	7.6190E+13	3.9345E+11
Xe-135	1.0156E-01	3.9771E-11	1.7741E+14	5.4575E+12
Xe-135m	2.3209E-03	2.5495E-14	1.1373E+11	2.4105E+11
Xe-138	6.2955E-04	6.5611E-15	2.8632E+10	1.1598E+11
Cs-134	1.1964E-06	9.2468E-13	4.1556E+12	9.8379E+07
Cs-136	3.6345E-07	4.9590E-15	2.1959E+10	2.9915E+07
Cs-137	9.2888E-07	1.0679E-11	4.6942E+13	7.6382E+07
Ba-139	9.0550E-08	5.5359E-18	2.3984E+07	6.1345E+06
Ba-140	2.3981E-07	3.2757E-15	1.4091E+10	1.3803E+07
La-140	7.0358E-09	1.2658E-17	5.4450E+07	3.3657E+05
La-141	1.5892E-09	2.8101E-19	1.2002E+06	9.6631E+04
La-142	9.0271E-10	6.3061E-20	2.6744E+05	6.0057E+04
Ce-141	5.6850E-09	1.9952E-16	8.5215E+08	3.2703E+05
Ce-143	5.3183E-09	8.0085E-18	3.3726E+07	3.0789E+05
Ce-144	4.5576E-09	1.4290E-15	5.9760E+09	2.6215E+05
Pr-143	2.1788E-09	3.2356E-17	1.3626E+08	1.2519E+05
Nd-147	8.8088E-10	1.0889E-17	4.4608E+07	5.0707E+04
Np-239	6.3296E-08	2.7284E-16	6.8747E+08	3.6544E+06
Pu-238	1.4164E-11	8.2735E-16	2.0934E+09	8.1466E+02
Pu-239	1.4287E-12	2.2985E-14	5.7917E+10	8.2170E+01
Pu-240	2.5233E-12	1.1079E-15	2.7799E+09	1.4513E+02
Pu-241	5.6059E-10	5.6687E-15	1.4165E+10	3.2244E+04
Am-241	3.1723E-13	9.2599E-17	2.3139E+08	1.8244E+01
Cm-242	8.7094E-11	2.6311E-17	6.5473E+07	5.0096E+03
Cm-244	5.7607E-12	7.0379E-17	1.7370E+08	3.3134E+02

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	4.2499E+16	0.0000E+00	
Elemental I (atoms)	1.7240E+12	0.0000E+00	
Organic I (atoms)	5.8233E+11	0.0000E+00	
Aerosols (kg)	1.2169E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.8761E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.4698E-15	
Total I (Ci)		3.2112E-04	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0305E+11
Organic I (atoms)	0.0000E+00	2.4579E+10
Aerosols (kg)	0.0000E+00	7.2237E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.9018E+16
Elemental I (atoms)	1.0613E+13	1.0721E+11
Organic I (atoms)	3.4000E+12	3.4344E+10
Aerosols (kg)	7.2325E-11	7.3056E-13

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CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.2256E+15
Elemental I (atoms)	0.0000E+00	1.9853E+12
Organic I (atoms)	0.0000E+00	6.3600E+11
Aerosols (kg)	0.0000E+00	1.3529E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	3.7197E+15	0.0000E+00
Elemental I (atoms)	2.4672E+11	0.0000E+00
Organic I (atoms)	5.8849E+10	0.0000E+00
Aerosols (kg)	1.7296E-12	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0521E-03	9.0285E-03	3.3481E-03
Accumulated dose (rem)		7.9118E-03	3.0961E-02	8.9285E-03

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.1550E-04	1.2291E-03	4.5580E-04
Accumulated dose (rem)		1.0771E-03	4.2149E-03	1.2155E-03

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.6749E-04	2.6076E-03	4.6485E-04
Accumulated dose (rem)		6.0680E-04	7.5895E-03	1.0786E-03

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	1.1035E-02	5.4362E-13	3.9443E+12	8.3991E+11
Kr-85m	4.0577E-02	4.9306E-12	3.4933E+13	2.8434E+12
Kr-85	2.9053E-03	7.4120E-09	5.2513E+16	1.9248E+11
Kr-87	3.4015E-02	1.2008E-12	8.3122E+12	2.7726E+12
Kr-88	9.0974E-02	7.2552E-12	4.9650E+13	6.5913E+12
Rb-86	1.4064E-08	1.7284E-16	1.2103E+09	1.4261E+06
Rb-88	6.0701E-02	5.0284E-13	3.4411E+12	2.6909E+12
Sr-89	2.1743E-07	7.4840E-15	5.0640E+10	1.6039E+07
Sr-90	2.3290E-08	1.7074E-13	1.1424E+12	1.7177E+06
Sr-91	2.2771E-07	6.2817E-17	4.1571E+08	1.7268E+07
Sr-92	1.5626E-07	1.2432E-17	8.1376E+07	1.2731E+07
Y-90	5.7258E-10	1.0524E-18	7.0419E+06	3.5803E+04
Y-91	2.7916E-09	1.1383E-16	7.5332E+08	2.0469E+05
Y-92	4.5189E-08	4.6962E-18	3.0741E+07	2.6881E+06
Y-93	2.6086E-09	7.8187E-19	5.0629E+06	1.9749E+05
Zr-95	3.2181E-09	1.4980E-16	9.4957E+08	2.3738E+05
Zr-97	2.8335E-09	1.4822E-18	9.2021E+06	2.1226E+05
Nb-95	3.1770E-09	8.1248E-17	5.1504E+08	2.3431E+05
Mo-99	3.9712E-08	8.2801E-17	5.0367E+08	2.9406E+06
Tc-99m	3.5753E-08	6.7994E-18	4.1360E+07	2.6244E+06
Ru-103	3.5145E-08	1.0890E-15	6.3669E+09	2.5928E+06
Ru-105	1.7650E-08	2.6256E-18	1.5059E+07	1.3823E+06
Ru-106	1.4633E-08	4.3737E-15	2.4848E+10	1.0792E+06
Rh-105	2.3242E-08	2.7536E-17	1.5793E+08	1.7155E+06
Sb-127	3.9826E-08	1.4913E-16	7.0716E+08	2.9456E+06
Sb-129	8.7226E-08	1.5511E-17	7.2412E+07	6.8431E+06
Te-127	3.9983E-08	1.5150E-17	7.1840E+07	2.9395E+06
Te-127m	6.8511E-09	7.2632E-16	3.4441E+09	5.0528E+05
Te-129	1.0027E-07	4.7877E-18	2.2351E+07	7.4712E+06
Te-129m	2.2468E-08	7.4582E-16	3.4818E+09	1.6571E+06
Te-131m	8.0809E-08	1.0134E-16	4.6587E+08	6.0124E+06
Te-132	5.9866E-07	1.9719E-15	8.9964E+09	4.4302E+07
I-131	6.6076E-05	5.3298E-13	2.4501E+12	6.1590E+09
I-132	5.7361E-05	5.5571E-15	2.5353E+10	5.9618E+09
I-133	1.2811E-04	1.1309E-13	5.1207E+11	1.2116E+10
I-134	2.6741E-05	1.0024E-15	4.5049E+09	3.8210E+09
I-135	1.0307E-04	2.9349E-14	1.3092E+11	1.0097E+10
Xe-133	3.5270E-01	1.8843E-09	8.5319E+15	2.3405E+13

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Xe-133m	1.0695E-02	2.4292E-11	1.0999E+14	7.1136E+11
Xe-135	1.4507E-01	5.6808E-11	2.5341E+14	9.7949E+12
Xe-135m	2.1591E-03	2.3718E-14	1.0580E+11	3.2365E+11
Xe-138	4.3824E-04	4.5673E-15	1.9931E+10	1.3483E+11
Cs-134	1.4112E-06	1.0907E-12	4.9017E+12	1.4299E+08
Cs-136	4.2847E-07	5.8462E-15	2.5887E+10	4.3464E+07
Cs-137	1.0957E-06	1.2596E-11	5.5370E+13	1.1102E+08
Ba-139	1.0615E-07	6.4895E-18	2.8116E+07	9.5747E+06
Ba-140	3.1860E-07	4.3520E-15	1.8720E+10	2.3518E+07
La-140	1.0424E-08	1.8754E-17	8.0670E+07	6.2985E+05
La-141	2.0215E-09	3.5744E-19	1.5266E+06	1.5958E+05
La-142	1.0724E-09	7.4915E-20	3.1771E+05	9.4587E+04
Ce-141	7.5560E-09	2.6518E-16	1.1326E+09	5.5739E+05
Ce-143	7.0326E-09	1.0590E-17	4.4597E+07	5.2282E+05
Ce-144	6.0584E-09	1.8995E-15	7.9437E+09	4.4684E+05
Pr-143	2.8981E-09	4.3037E-17	1.8124E+08	2.1349E+05
Nd-147	1.1702E-09	1.4465E-17	5.9259E+07	8.6391E+04
Np-239	8.3882E-08	3.6157E-16	9.1107E+08	6.2153E+06
Pu-238	1.8828E-11	1.0998E-15	2.7828E+09	1.3886E+03
Pu-239	1.8992E-12	3.0556E-14	7.6992E+10	1.4007E+02
Pu-240	3.3542E-12	1.4727E-15	3.6953E+09	2.4738E+02
Pu-241	7.4520E-10	7.5355E-15	1.8830E+10	5.4961E+04
Am-241	4.2172E-13	1.2310E-16	3.0761E+08	3.1100E+01
Cm-242	1.1577E-10	3.4973E-17	8.7031E+07	8.5389E+03
Cm-244	7.6577E-12	9.3556E-17	2.3090E+08	5.6478E+02

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	6.1506E+16	0.0000E+00		
Elemental I (atoms)	2.0406E+12	0.0000E+00		
Organic I (atoms)	7.9008E+11	0.0000E+00		
Aerosols (kg)	1.4496E-11	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		8.4119E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0327E-14	
Total I (Ci)			3.8136E-04	

	Deposition	Recirculating	
Time (h) =	2.2500	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.5249E+11	
Organic I (atoms)	0.0000E+00	4.2488E+10	
Aerosols (kg)	0.0000E+00	1.0714E-12	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.7804E+16
Elemental I (atoms)	1.3111E+13	1.3243E+11
Organic I (atoms)	4.7771E+12	4.8254E+10
Aerosols (kg)	8.9083E-11	8.9983E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0704E+16
Elemental I (atoms)	0.0000E+00	2.4524E+12
Organic I (atoms)	0.0000E+00	8.9359E+11
Aerosols (kg)	0.0000E+00	1.6664E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	6.9569E+15	0.0000E+00
Elemental I (atoms)	3.6510E+11	0.0000E+00
Organic I (atoms)	1.0173E+11	0.0000E+00
Aerosols (kg)	2.5653E-12	0.0000E+00

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3023E-03	6.3862E-03	2.5115E-03
Accumulated dose (rem)		1.0214E-02	3.7347E-02	1.1440E-02

LPZ Doses:

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Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1342E-04	8.6938E-04	3.4190E-04
Accumulated dose (rem)		1.3905E-03	5.0843E-03	1.5574E-03

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0618E-04	1.8388E-03	3.5869E-04
Accumulated dose (rem)		8.1298E-04	9.4283E-03	1.4373E-03

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		1.2991E-02	6.3997E-13	4.6433E+12	1.0943E+12
Kr-85m		4.9356E-02	5.9974E-12	4.2491E+13	3.7946E+12
Kr-85		3.6168E-03	9.2273E-09	6.5374E+16	2.6138E+11
Kr-87		3.9021E-02	1.3776E-12	9.5356E+12	3.5467E+12
Kr-88		1.0918E-01	8.7073E-12	5.9587E+13	8.7094E+12
Rb-86		1.5499E-08	1.9048E-16	1.3338E+09	1.7293E+06
Rb-88		7.4723E-02	6.1900E-13	4.2360E+12	3.8231E+12
Sr-89		2.5617E-07	8.8177E-15	5.9664E+10	2.0979E+07
Sr-90		2.7442E-08	2.0118E-13	1.3461E+12	2.2468E+06
Sr-91		2.6539E-07	7.3212E-17	4.8449E+08	2.2413E+07
Sr-92		1.7719E-07	1.4097E-17	9.2276E+07	1.6213E+07
Y-90		7.0955E-10	1.3042E-18	8.7265E+06	4.8869E+04
Y-91		3.2957E-09	1.3439E-16	8.8933E+08	2.6813E+05
Y-92		5.5873E-08	5.8066E-18	3.8009E+07	3.7064E+06
Y-93		3.0422E-09	9.1183E-19	5.9045E+06	2.5645E+05
Zr-95		3.7916E-09	1.7649E-16	1.1188E+09	3.1050E+05
Zr-97		3.3182E-09	1.7358E-18	1.0776E+07	2.7644E+05
Nb-95		3.7435E-09	9.5734E-17	6.0686E+08	3.0649E+05
Mo-99		4.6719E-08	9.7410E-17	5.9254E+08	3.8422E+06
Tc-99m		4.2114E-08	8.0091E-18	4.8719E+07	3.4328E+06
Ru-103		4.1407E-08	1.2830E-15	7.5013E+09	3.3913E+06
Ru-105		2.0315E-08	3.0222E-18	1.7333E+07	1.7786E+06
Ru-106		1.7241E-08	5.1535E-15	2.9278E+10	1.4117E+06
Rh-105		2.7366E-08	3.2422E-17	1.8595E+08	2.2430E+06
Sb-127		4.6874E-08	1.7552E-16	8.3230E+08	3.8500E+06
Sb-129		1.0033E-07	1.7842E-17	8.3293E+07	8.8010E+06
Te-127		4.7105E-08	1.7849E-17	8.4637E+07	3.8451E+06
Te-127m		8.0726E-09	8.5582E-16	4.0582E+09	6.6094E+05
Te-129		1.1640E-07	5.5580E-18	2.5946E+07	9.6866E+06
Te-129m		2.6474E-08	8.7878E-16	4.1024E+09	2.1676E+06
Te-131m		9.4888E-08	1.1900E-16	5.4703E+08	7.8452E+06
Te-132		7.0446E-07	2.3204E-15	1.0586E+10	5.7894E+07
I-131		7.4751E-05	6.0296E-13	2.7718E+12	7.6128E+09
I-132		6.2912E-05	6.0949E-15	2.7806E+10	7.2087E+09
I-133		1.4428E-04	1.2737E-13	5.7671E+11	1.4928E+10
I-134		2.6882E-05	1.0077E-15	4.5287E+09	4.3756E+09
I-135		1.1484E-04	3.2701E-14	1.4587E+11	1.2347E+10
Xe-133		4.3878E-01	2.3442E-09	1.0614E+16	3.1767E+13
Xe-133m		1.3292E-02	3.0191E-11	1.3670E+14	9.6481E+11
Xe-135		1.7918E-01	7.0163E-11	3.1299E+14	1.3225E+13
Xe-135m		2.1114E-03	2.3194E-14	1.0347E+11	3.7107E+11
Xe-138		3.5161E-04	3.6644E-15	1.5991E+10	1.4321E+11
Cs-134		1.5555E-06	1.2023E-12	5.4031E+12	1.7341E+08
Cs-136		4.7215E-07	6.4421E-15	2.8526E+10	5.2700E+07
Cs-137		1.2077E-06	1.3885E-11	6.1035E+13	1.3464E+08
Ba-139		1.1599E-07	7.0910E-18	3.0722E+07	1.1897E+07
Ba-140		3.7528E-07	5.1262E-15	2.2050E+10	3.0756E+07
La-140		1.3034E-08	2.3449E-17	1.0087E+08	8.6786E+05
La-141		2.3197E-09	4.1017E-19	1.7519E+06	2.0490E+05
La-142		1.1812E-09	8.2515E-20	3.4994E+05	1.1814E+05
Ce-141		8.9025E-09	3.1244E-16	1.3344E+09	7.2906E+05
Ce-143		8.2604E-09	1.2439E-17	5.2384E+07	6.8235E+05
Ce-144		7.1384E-09	2.2381E-15	9.3599E+09	5.8449E+05
Pr-143		3.4160E-09	5.0729E-17	2.1363E+08	2.7933E+05
Nd-147		1.3783E-09	1.7037E-17	6.9797E+07	1.1297E+05
Np-239		9.8656E-08	4.2526E-16	1.0715E+09	8.1194E+06
Pu-238		2.2185E-11	1.2959E-15	3.2790E+09	1.8164E+03
Pu-239		2.2379E-12	3.6005E-14	9.0722E+10	1.8322E+02
Pu-240		3.9523E-12	1.7353E-15	4.3542E+09	3.2359E+02
Pu-241		8.7806E-10	8.8790E-15	2.2187E+10	7.1892E+04
Am-241		4.9694E-13	1.4506E-16	3.6247E+08	4.0682E+01
Cm-242		1.3641E-10	4.1208E-17	1.0254E+08	1.1169E+04
Cm-244		9.0230E-12	1.1024E-16	2.7207E+08	7.3877E+02

CR Transport Group Inventory:

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Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	7.6555E+16	0.0000E+00	
Elemental I (atoms)	2.2543E+12	0.0000E+00	
Organic I (atoms)	9.4952E+11	0.0000E+00	
Aerosols (kg)	1.6061E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.5001E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.1642E-14	
Total I (Ci)		4.2367E-04	

	Deposition	Recirculating
Time (h) =	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.8639E+11
Organic I (atoms)	0.0000E+00	5.6193E+10
Aerosols (kg)	0.0000E+00	1.3119E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2709E+16
Elemental I (atoms)	1.4805E+13	1.4955E+11
Organic I (atoms)	5.8329E+12	5.8919E+10
Aerosols (kg)	1.0043E-10	1.0145E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3465E+16
Elemental I (atoms)	0.0000E+00	2.7694E+12
Organic I (atoms)	0.0000E+00	1.0911E+12
Aerosols (kg)	0.0000E+00	1.8787E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	9.5572E+15	0.0000E+00
Elemental I (atoms)	4.4627E+11	0.0000E+00
Organic I (atoms)	1.3454E+11	0.0000E+00
Aerosols (kg)	3.1410E-12	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.5624E-02	1.1267E-01	4.9292E-02
Accumulated dose (rem)		5.5838E-02	1.5002E-01	6.0732E-02

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.2110E-03	1.5338E-02	6.7104E-03
Accumulated dose (rem)		7.6014E-03	2.0422E-02	8.2677E-03

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.6729E-03	3.8444E-02	9.8075E-03
Accumulated dose (rem)		6.4859E-03	4.7872E-02	1.1245E-02

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		4.0115E-02	1.9762E-12	1.4338E+13	6.9806E+12
Kr-85m		2.1600E-01	2.6246E-11	1.8595E+14	3.1345E+13
Kr-85		2.0275E-02	5.1725E-08	3.6647E+17	2.6153E+12
Kr-87		9.1445E-02	3.2284E-12	2.2347E+13	1.8637E+13
Kr-88		4.1417E-01	3.3030E-11	2.2604E+14	6.4599E+13
Rb-86		3.4385E-08	4.2259E-16	2.9592E+09	7.1013E+06
Rb-88		3.4716E-01	2.8758E-12	1.9680E+13	3.8302E+13
Sr-89		8.3891E-07	2.8876E-14	1.9539E+11	1.3777E+08
Sr-90		8.9949E-08	6.5942E-13	4.4123E+12	1.4765E+07
Sr-91		7.7405E-07	2.1353E-16	1.4131E+09	1.3547E+08
Sr-92		3.8574E-07	3.0689E-17	2.0088E+08	8.0103E+07
Y-90		3.6661E-09	6.7384E-18	4.5088E+07	4.7321E+05
Y-91		1.1032E-08	4.4984E-16	2.9769E+09	1.7889E+06
Y-92		2.4617E-07	2.5583E-17	1.6746E+08	3.4278E+07

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Y-93	8.9347E-09	2.6780E-18	1.7341E+07	1.5577E+06
Zr-95	1.2419E-08	5.7809E-16	3.6645E+09	2.0393E+06
Zr-97	1.0186E-08	5.3281E-18	3.3079E+07	1.7328E+06
Nb-95	1.2270E-08	3.1380E-16	1.9892E+09	2.0141E+06
Mo-99	1.5058E-07	3.1397E-16	1.9099E+09	2.4944E+07
Tc-99m	1.3742E-07	2.6135E-17	1.5898E+08	2.2489E+07
Ru-103	1.3556E-07	4.2004E-15	2.4559E+10	2.2267E+07
Ru-105	5.1871E-08	7.7166E-18	4.4257E+07	9.7942E+06
Ru-106	5.6506E-08	1.6890E-14	9.5956E+10	9.2760E+06
Rh-105	8.8750E-08	1.0515E-16	6.0306E+08	1.4645E+07
Sb-127	1.5181E-07	5.6847E-16	2.6956E+09	2.5081E+07
Sb-129	2.5441E-07	4.5242E-17	2.1120E+08	4.8232E+07
Te-127	1.5410E-07	5.8391E-17	2.7688E+08	2.5232E+07
Te-127m	2.6461E-08	2.8053E-15	1.3302E+10	4.3434E+06
Te-129	3.2123E-07	1.5339E-17	7.1606E+07	5.6654E+07
Te-129m	8.6744E-08	2.8794E-15	1.3442E+10	1.4241E+07
Te-131m	2.9974E-07	3.7589E-16	1.7280E+09	5.0197E+07
Te-132	2.2766E-06	7.4988E-15	3.4211E+10	3.7657E+08
I-131	2.1699E-04	1.7502E-12	8.0460E+12	3.8232E+10
I-132	1.3028E-04	1.2622E-14	5.7583E+10	2.8586E+10
I-133	3.9929E-04	3.5248E-13	1.5960E+12	7.2406E+10
I-134	2.2145E-05	8.3013E-16	3.7307E+09	9.9977E+09
I-135	2.8344E-04	8.0709E-14	3.6003E+11	5.5178E+10
Xe-133	2.4408E+00	1.3040E-08	5.9044E+16	3.1598E+14
Xe-133m	7.3127E-02	1.6610E-10	7.5209E+14	9.5158E+12
Xe-135	9.1112E-01	3.5678E-10	1.5915E+15	1.2321E+14
Xe-135m	1.5681E-03	1.7226E-14	7.6841E+10	8.0435E+11
Xe-138	1.8178E-05	1.8945E-16	8.2673E+08	1.7095E+11
Cs-134	3.4593E-06	2.6737E-12	1.2016E+13	7.1330E+08
Cs-136	1.0464E-06	1.4277E-14	6.3219E+10	2.1625E+08
Cs-137	2.6860E-06	3.0880E-11	1.3574E+14	5.5383E+08
Ba-139	1.7004E-07	1.0396E-17	4.5038E+07	4.5639E+07
Ba-140	1.2256E-06	1.6742E-14	7.2015E+10	2.0158E+08
La-140	7.1392E-08	1.2844E-16	5.5250E+08	8.9687E+06
La-141	5.7340E-09	1.0139E-18	4.3304E+06	1.1034E+06
La-142	1.8858E-09	1.3173E-19	5.5867E+05	4.7766E+05
Ce-141	2.9151E-08	1.0231E-15	4.3695E+09	4.7876E+06
Ce-143	2.6181E-08	3.9425E-17	1.6603E+08	4.3766E+06
Ce-144	2.3395E-08	7.3349E-15	3.0675E+10	3.8405E+06
Pr-143	1.1243E-08	1.6697E-16	7.0314E+08	1.8409E+06
Nd-147	4.4988E-09	5.5610E-17	2.2782E+08	7.4014E+05
Np-239	3.1709E-07	1.3668E-15	3.4440E+09	5.2605E+07
Pu-238	7.2720E-11	4.2477E-15	1.0748E+10	1.1937E+04
Pu-239	7.3371E-12	1.1804E-13	2.9744E+11	1.2042E+03
Pu-240	1.2955E-11	5.6878E-15	1.4272E+10	2.1265E+03
Pu-241	2.8781E-09	2.9103E-14	7.2724E+10	4.7243E+05
Am-241	1.6296E-12	4.7569E-16	1.1887E+09	2.6743E+02
Cm-242	4.4699E-10	1.3503E-16	3.3603E+08	7.3383E+04
Cm-244	2.9575E-11	3.6133E-16	8.9179E+08	4.8547E+03

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	4.2830E+17	0.0000E+00	
Elemental I (atoms)	5.0480E+12	0.0000E+00	
Organic I (atoms)	4.2900E+12	0.0000E+00	
Aerosols (kg)	3.7514E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.7107E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.2661E-14	
Total I (Ci)		1.0521E-03	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.9438E+11
Organic I (atoms)	0.0000E+00	4.5611E+11
Aerosols (kg)	0.0000E+00	5.7271E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.4556E+17
Elemental I (atoms)	3.9885E+13	4.0287E+11
Organic I (atoms)	2.9955E+13	3.0258E+11
Aerosols (kg)	2.6940E-10	2.7212E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

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	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.2511E+16
Elemental I (atoms)	0.0000E+00	7.4606E+12
Organic I (atoms)	0.0000E+00	5.6033E+12
Aerosols (kg)	0.0000E+00	5.0393E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	9.9211E+16	0.0000E+00
Elemental I (atoms)	1.9020E+12	0.0000E+00
Organic I (atoms)	1.0921E+12	0.0000E+00
Aerosols (kg)	1.3712E-11	0.0000E+00

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1527E-01	6.0391E-01	2.3463E-01
Accumulated dose (rem)	2.7111E-01	7.5393E-01	2.9536E-01

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9306E-02	8.2213E-02	3.1942E-02
Accumulated dose (rem)	3.6908E-02	1.0264E-01	4.0209E-02

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0345E-02	3.1993E-01	8.8144E-02
Accumulated dose (rem)	5.6831E-02	3.6781E-01	9.9388E-02

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	5.8087E-02	2.8615E-12	2.0762E+13	3.7937E+13
Kr-85m	7.4785E-01	9.0874E-11	6.4383E+14	3.0215E+14
Kr-85	1.3035E-01	3.3255E-07	2.3561E+18	3.9745E+13
Kr-87	6.6439E-02	2.3456E-12	1.6236E+13	6.8761E+13
Kr-88	1.0031E+00	7.9996E-11	5.4744E+14	4.8721E+14
Rb-86	7.1742E-08	8.8170E-16	6.1741E+09	3.6999E+07
Rb-88	9.8745E-01	8.1799E-12	5.5978E+13	3.6753E+14
Sr-89	2.1827E-06	7.5129E-14	5.0836E+11	9.8940E+08
Sr-90	2.3456E-07	1.7196E-12	1.1506E+13	1.0620E+08
Sr-91	1.5076E-06	4.1589E-16	2.7522E+09	8.0379E+08
Sr-92	3.6160E-07	2.8769E-17	1.8831E+08	3.0797E+08
Y-90	1.8837E-08	3.4624E-17	2.3168E+08	6.2146E+06
Y-91	3.0104E-08	1.2275E-15	8.1234E+09	1.3304E+07
Y-92	6.0446E-07	6.2819E-17	4.1120E+08	2.8738E+08
Y-93	1.7706E-08	5.3071E-18	3.4366E+07	9.3456E+06
Zr-95	3.2327E-08	1.5048E-15	9.5390E+09	1.4650E+07
Zr-97	2.2542E-08	1.1792E-17	7.3209E+07	1.1171E+07
Nb-95	3.1998E-08	8.1830E-16	5.1873E+09	1.4486E+07
Mo-99	3.7653E-07	7.8507E-16	4.7756E+09	1.7439E+08
Tc-99m	3.5152E-07	6.6851E-17	4.0665E+08	1.6001E+08
Ru-103	3.5248E-07	1.0921E-14	6.3855E+10	1.5983E+08
Ru-105	7.2442E-08	1.0777E-17	6.1809E+07	4.7281E+07
Ru-106	1.4731E-07	4.4031E-14	2.5015E+11	6.6703E+07
Rh-105	2.2155E-07	2.6248E-16	1.5054E+09	1.0276E+08
Sb-127	3.8418E-07	1.4386E-15	6.8216E+09	1.7678E+08
Sb-129	3.4920E-07	6.2097E-17	2.8989E+08	2.3044E+08
Te-127	3.9846E-07	1.5098E-16	7.1594E+08	1.8062E+08
Te-127m	6.9004E-08	7.3155E-15	3.4689E+10	3.1240E+07
Te-129	5.2697E-07	2.5163E-17	1.1747E+08	3.0315E+08
Te-129m	2.2580E-07	7.4953E-15	3.4991E+10	1.0233E+08
Te-131m	7.1263E-07	8.9369E-16	4.1083E+09	3.3932E+08
Te-132	5.7299E-06	1.8874E-14	8.6106E+10	2.6444E+09
I-131	7.5709E-04	6.1068E-12	2.8073E+13	2.9617E+11
I-132	2.0228E-04	1.9596E-14	8.9403E+10	1.2570E+11
I-133	1.2366E-03	1.0916E-12	4.9427E+12	5.1481E+11
I-134	3.3158E-06	1.2429E-16	5.5859E+08	1.5964E+10
I-135	6.5935E-04	1.8775E-13	8.3752E+11	3.2163E+11
Xe-133	1.5370E+01	8.2115E-08	3.7181E+17	4.7280E+15
Xe-133m	4.4707E-01	1.0155E-09	4.5980E+15	1.3926E+14
Xe-135	4.3950E+00	1.7210E-09	7.6772E+15	1.5210E+15
Xe-135m	1.3710E-03	1.5061E-14	6.7185E+10	1.7076E+12

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Xe-138	9.5469E-10	9.9496E-21	4.3419E+04	1.7206E+11
Cs-134	7.2613E-06	5.6123E-12	2.5222E+13	3.7313E+09
Cs-136	2.1774E-06	2.9710E-14	1.3156E+11	1.1247E+09
Cs-137	5.6390E-06	6.4829E-11	2.8497E+14	2.8974E+09
Ba-139	5.9321E-08	3.6267E-18	1.5712E+07	1.0995E+08
Ba-140	3.1673E-06	4.3264E-14	1.8610E+11	1.4410E+09
La-140	3.8005E-07	6.8376E-16	2.9412E+09	1.2383E+08
La-141	7.3846E-09	1.3058E-18	5.5770E+06	5.0769E+06
La-142	8.1414E-10	5.6873E-20	2.4120E+05	1.2578E+06
Ce-141	7.5789E-08	2.6599E-15	1.1360E+10	3.4369E+07
Ce-143	6.2772E-08	9.4525E-17	3.9807E+08	2.9751E+07
Ce-144	6.0982E-08	1.9120E-14	7.9960E+10	2.7615E+07
Pr-143	2.9616E-08	4.3980E-16	1.8521E+09	1.3334E+07
Nd-147	1.1609E-08	1.4350E-16	5.8787E+08	5.2857E+06
Np-239	7.8731E-07	3.3937E-15	8.5512E+09	3.6605E+08
Pu-238	1.8964E-10	1.1077E-14	2.8029E+10	8.5855E+04
Pu-239	1.9144E-11	3.0800E-13	7.7607E+11	8.6646E+03
Pu-240	3.3783E-11	1.4832E-14	3.7218E+10	1.5295E+04
Pu-241	7.5052E-09	7.5892E-14	1.8964E+11	3.3979E+06
Am-241	4.2551E-12	1.2421E-15	3.1037E+09	1.9251E+03
Cm-242	1.1648E-09	3.5188E-16	8.7565E+08	5.2755E+05
Cm-244	7.7124E-11	9.4224E-16	2.3255E+09	3.4917E+04

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	2.7414E+18	0.0000E+00	
Elemental I (atoms)	1.0107E+13	0.0000E+00	
Organic I (atoms)	2.2350E+13	0.0000E+00	
Aerosols (kg)	8.1350E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.1134E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0658E-13	
Total I (Ci)		2.8586E-03	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.1686E+12
Organic I (atoms)	0.0000E+00	5.7213E+12
Aerosols (kg)	0.0000E+00	3.1965E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.6264E+18
Elemental I (atoms)	1.2564E+14	1.2691E+12
Organic I (atoms)	2.1532E+14	2.1750E+12
Aerosols (kg)	8.7433E-10	8.8316E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.7156E+17
Elemental I (atoms)	0.0000E+00	2.3502E+13
Organic I (atoms)	0.0000E+00	4.0277E+13
Aerosols (kg)	0.0000E+00	1.6355E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	1.5495E+18	0.0000E+00
Elemental I (atoms)	9.9809E+12	0.0000E+00
Organic I (atoms)	1.3699E+13	0.0000E+00
Aerosols (kg)	7.6534E-11	0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5191E-01	2.1504E+00	5.1960E-01	
Accumulated dose (rem)	7.2303E-01	2.9044E+00	8.1496E-01	

LPZ Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1394E-02	1.0130E-01	4.4582E-02	
Accumulated dose (rem)	7.8301E-02	2.0394E-01	8.4791E-02	

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CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.2253E-02	8.0370E-01	1.6352E-01
Accumulated dose (rem)	1.4908E-01	1.1715E+00	2.6291E-01

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	4.0355E-03	1.9880E-13	1.4424E+12	5.8154E+13
Kr-85m	2.9705E-01	3.6096E-11	2.5574E+14	7.9226E+14
Kr-85	1.7852E-01	4.5543E-07	3.2267E+18	1.9499E+14
Kr-87	1.1621E-03	4.1025E-14	2.8398E+11	8.4858E+13
Kr-88	1.9496E-01	1.5548E-11	1.0640E+14	9.8062E+14
Rb-86	2.8495E-08	3.5021E-16	2.4523E+09	8.2222E+07
Rb-88	5.6380E-01	4.6705E-12	3.1962E+13	7.9012E+14
Sr-89	9.8632E-07	3.3950E-14	2.2972E+11	2.4416E+09
Sr-90	1.0648E-07	7.8059E-13	5.2232E+12	2.6256E+08
Sr-91	3.8177E-07	1.0532E-16	6.9695E+08	1.5951E+09
Sr-92	2.1213E-08	1.6877E-18	1.1047E+07	4.2456E+08
Y-90	1.6586E-08	3.0485E-17	2.0398E+08	2.3651E+07
Y-91	1.4443E-08	5.8895E-16	3.8975E+09	3.3902E+07
Y-92	1.0054E-07	1.0449E-17	6.8398E+07	5.6850E+08
Y-93	4.6419E-09	1.3913E-18	9.0094E+06	1.8765E+07
Zr-95	1.4622E-08	6.8064E-16	4.3147E+09	3.6166E+07
Zr-97	7.3708E-09	3.8557E-18	2.3938E+07	2.4264E+07
Nb-95	1.4526E-08	3.7147E-16	2.3548E+09	3.5814E+07
Mo-99	1.5716E-07	3.2767E-16	1.9932E+09	4.1650E+08
Tc-99m	1.5256E-07	2.9014E-17	1.7649E+08	3.8473E+08
Ru-103	1.5907E-07	4.9288E-15	2.8817E+10	3.9421E+08
Ru-105	9.4321E-09	1.4032E-18	8.0477E+06	7.7190E+07
Ru-106	6.6830E-08	1.9976E-14	1.1349E+11	1.6488E+08
Rh-105	8.8667E-08	1.0505E-16	6.0250E+08	2.4300E+08
Sb-127	1.6424E-07	6.1502E-16	2.9163E+09	4.2635E+08
Sb-129	4.3916E-08	7.8095E-18	3.6457E+07	3.7295E+08
Te-127	1.7706E-07	6.7090E-17	3.1813E+08	4.4012E+08
Te-127m	3.1323E-08	3.3207E-15	1.5746E+10	7.7237E+07
Te-129	1.4327E-07	6.8414E-18	3.1938E+07	5.4485E+08
Te-129m	1.0194E-07	3.3837E-15	1.5796E+10	2.5251E+08
Te-131m	2.6891E-07	3.3723E-16	1.5503E+09	7.7843E+08
Te-132	2.4231E-06	7.9814E-15	3.6413E+10	6.3493E+09
I-131	6.5676E-04	5.2975E-12	2.4353E+13	9.6775E+11
I-132	6.5887E-05	6.3830E-15	2.9121E+10	2.3172E+11
I-133	8.4521E-04	7.4612E-13	3.3784E+12	1.4917E+12
I-134	5.2975E-09	1.9858E-19	8.9245E+05	1.6460E+10
I-135	2.5428E-04	7.2406E-14	3.2299E+11	7.2405E+11
Xe-133	2.0173E+01	1.0777E-07	4.8799E+17	2.2623E+16
Xe-133m	5.5234E-01	1.2546E-09	5.6806E+15	6.4339E+14
Xe-135	3.2923E+00	1.2892E-09	5.7510E+15	5.3719E+15
Xe-135m	2.1563E-04	2.3688E-15	1.0567E+10	2.2683E+12
Cs-134	2.9192E-06	2.2562E-12	1.0140E+13	8.3319E+09
Cs-136	8.6034E-07	1.1739E-14	5.1979E+10	2.4943E+09
Cs-137	2.2676E-06	2.6070E-11	1.1460E+14	6.4706E+09
Ba-139	4.8196E-10	2.9465E-20	1.2766E+05	1.2195E+08
Ba-140	1.4120E-06	1.9287E-14	8.2964E+10	3.5359E+09
La-140	3.3203E-07	5.9735E-16	2.5695E+09	4.7489E+08
La-141	8.1763E-10	1.4458E-19	6.1749E+05	7.9664E+06
Ce-141	3.4176E-08	1.1994E-15	5.1228E+09	8.4748E+07
Ce-143	2.4088E-08	3.6273E-17	1.5276E+08	6.8703E+07
Ce-144	2.7661E-08	8.6725E-15	3.6269E+10	6.8253E+07
Pr-143	1.3656E-08	2.0279E-16	8.5401E+08	3.3206E+07
Nd-147	5.1602E-09	6.3786E-17	2.6131E+08	1.2954E+07
Np-239	3.2400E-07	1.3966E-15	3.5191E+09	8.6925E+08
Pu-238	8.6091E-11	5.0288E-15	1.2724E+10	2.1228E+05
Pu-239	8.6995E-12	1.3996E-13	3.5266E+11	2.1432E+04
Pu-240	1.5336E-11	6.7333E-15	1.6895E+10	3.7815E+04
Pu-241	3.4069E-09	3.4450E-14	8.6085E+10	8.4010E+06
Am-241	1.9366E-12	5.6528E-16	1.4125E+09	4.7646E+03
Cm-242	5.2802E-10	1.5951E-16	3.9694E+08	1.3036E+06
Cm-244	3.5010E-11	4.2772E-16	1.0557E+09	8.6329E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	3.7265E+18	0.0000E+00
Elemental I (atoms)	3.5088E+12	0.0000E+00
Organic I (atoms)	2.4012E+13	0.0000E+00
Aerosols (kg)	3.4208E-11	0.0000E+00

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Dose Effective (Ci/cc)	I-131 (Thyroid)	7.4633E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.3997E-14
Total I (Ci)		1.8221E-03

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	9.0496E+12
Organic I (atoms)	0.0000E+00	2.3233E+13
Aerosols (kg)	0.0000E+00	7.3348E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5912E+18
Elemental I (atoms)	1.7851E+14	1.8031E+12
Organic I (atoms)	5.3352E+14	5.3891E+12
Aerosols (kg)	1.2953E-09	1.3084E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7762E+18
Elemental I (atoms)	0.0000E+00	3.3391E+13
Organic I (atoms)	0.0000E+00	9.9798E+13
Aerosols (kg)	0.0000E+00	2.4230E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	7.6109E+18	0.0000E+00
Elemental I (atoms)	2.1668E+13	0.0000E+00
Organic I (atoms)	5.5628E+13	0.0000E+00
Aerosols (kg)	1.7562E-10	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3991E-01	2.7173E+00	4.2447E-01
Accumulated dose (rem)	1.0629E+00	5.6217E+00	1.2394E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1135E-02	1.2800E-01	3.5118E-02
Accumulated dose (rem)	1.0944E-01	3.3194E-01	1.1991E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3277E-02	8.9454E-01	1.1214E-01
Accumulated dose (rem)	2.1236E-01	2.0660E+00	3.7504E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	2.9113E-04	1.4342E-14	1.0406E+11	5.9744E+13
Kr-85m	1.2252E-01	1.4888E-11	1.0548E+14	1.0120E+15
Kr-85	2.5386E-01	6.4765E-07	4.5885E+18	4.3311E+14
Kr-87	2.1106E-05	7.4511E-16	5.1577E+09	8.5176E+13
Kr-88	3.9347E-02	3.1379E-12	2.1474E+13	1.0891E+15
Rb-86	1.6917E-08	2.0791E-16	1.4559E+09	1.0496E+08
Rb-88	1.1415E-01	9.4556E-13	6.4708E+12	8.8102E+14
Sr-89	6.7399E-07	2.3199E-14	1.5698E+11	3.2882E+09
Sr-90	7.3093E-08	5.3584E-13	3.5855E+12	3.5416E+08
Sr-91	1.4619E-07	4.0329E-17	2.6689E+08	1.8483E+09
Sr-92	1.8818E-09	1.4971E-19	9.7998E+05	4.3278E+08
Y-90	1.6440E-08	3.0218E-17	2.0219E+08	4.0435E+07
Y-91	1.0179E-08	4.1508E-16	2.7469E+09	4.6474E+07
Y-92	1.8362E-08	1.9083E-18	1.2491E+07	6.1816E+08
Y-93	1.8403E-09	5.5159E-19	3.5717E+06	2.1889E+07
Zr-95	1.0002E-08	4.6556E-16	2.9512E+09	4.8724E+07
Zr-97	3.6445E-09	1.9064E-18	1.1836E+07	2.9724E+07
Nb-95	9.9712E-09	2.5500E-16	1.6164E+09	4.8304E+07
Mo-99	9.9189E-08	2.0681E-16	1.2580E+09	5.4650E+08

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Tc-99m	9.9353E-08	1.8895E-17	1.1494E+08	5.0635E+08
Ru-103	1.0856E-07	3.3636E-15	1.9666E+10	5.3067E+08
Ru-105	1.8571E-09	2.7627E-19	1.5845E+06	8.1996E+07
Ru-106	4.5848E-08	1.3704E-14	7.7856E+10	2.2235E+08
Rh-105	5.2567E-08	6.2279E-17	3.5719E+08	3.1428E+08
Sb-127	1.0618E-07	3.9760E-16	1.8854E+09	5.6373E+08
Sb-129	8.3518E-09	1.4852E-18	6.9334E+06	3.9504E+08
Te-127	1.1848E-07	4.4893E-17	2.1288E+08	5.8556E+08
Te-127m	2.1499E-08	2.2792E-15	1.0808E+10	1.0418E+08
Te-129	7.1844E-08	3.4306E-18	1.6015E+07	6.2581E+08
Te-129m	6.9521E-08	2.3077E-15	1.0773E+10	3.3993E+08
Te-131m	1.5344E-07	1.9243E-16	8.8461E+08	9.9082E+08
Te-132	1.5495E-06	5.1039E-15	2.3285E+10	8.3659E+09
I-131	7.9825E-04	6.4388E-12	2.9600E+13	1.7616E+12
I-132	6.6440E-05	6.4366E-15	2.9365E+10	3.1329E+11
I-133	8.0947E-04	7.1456E-13	3.2355E+12	2.3975E+12
I-135	1.3740E-04	3.9125E-14	1.7453E+11	9.3207E+11
Xe-133	2.7487E+01	1.4685E-07	6.6490E+17	4.8932E+16
Xe-133m	7.0830E-01	1.6088E-09	7.2847E+15	1.3414E+15
Xe-135	2.5487E+00	9.9803E-10	4.4520E+15	8.6092E+15
Xe-135m	9.4966E-05	1.0432E-15	4.6536E+09	2.6037E+12
Cs-134	1.7541E-06	1.3558E-12	6.0930E+12	1.0674E+10
Cs-136	5.0809E-07	6.9325E-15	3.0697E+10	3.1791E+09
Cs-137	1.3630E-06	1.5670E-11	6.8881E+13	8.2903E+09
Ba-140	9.5187E-07	1.3002E-14	5.5929E+10	4.7403E+09
La-140	3.2133E-07	5.7810E-16	2.4867E+09	8.0652E+08
La-141	1.3690E-10	2.4207E-20	1.0339E+05	8.3591E+06
Ce-141	2.3298E-08	8.1767E-16	3.4923E+09	1.1405E+08
Ce-143	1.3978E-08	2.1049E-17	8.8642E+07	8.7874E+07
Ce-144	1.8973E-08	5.9486E-15	2.4877E+10	9.2039E+07
Pr-143	9.4687E-09	1.4061E-16	5.9216E+08	4.4993E+07
Nd-147	3.4686E-09	4.2876E-17	1.7565E+08	1.7350E+07
Np-239	2.0163E-07	8.6915E-16	2.1900E+09	1.1355E+09
Pu-238	5.9101E-11	3.4522E-15	8.7352E+09	2.8634E+05
Pu-239	5.9775E-12	9.6169E-14	2.4232E+11	2.8919E+04
Pu-240	1.0528E-11	4.6222E-15	1.1598E+10	5.1008E+04
Pu-241	2.3386E-09	2.3648E-14	5.9092E+10	1.1332E+07
Am-241	1.3328E-12	3.8903E-16	9.7212E+08	6.4323E+03
Cm-242	3.6196E-10	1.0935E-16	2.7210E+08	1.7575E+06
Cm-244	2.4032E-11	2.9361E-16	7.2465E+08	1.1645E+05

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	5.2653E+18	0.0000E+00	
Elemental I (atoms)	1.6666E+12	0.0000E+00	
Organic I (atoms)	3.1048E+13	0.0000E+00	
Aerosols (kg)	1.8787E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	8.6883E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	9.5327E-14	
Total I (Ci)		1.8116E-03	

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.1141E+13
Organic I (atoms)	0.0000E+00	4.6878E+13
Aerosols (kg)	0.0000E+00	9.4583E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8659E+19
Elemental I (atoms)	2.0594E+14	2.0802E+12
Organic I (atoms)	9.8545E+14	9.9541E+12
Aerosols (kg)	1.5697E-09	1.5856E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4554E+18
Elemental I (atoms)	0.0000E+00	3.8522E+13
Organic I (atoms)	0.0000E+00	1.8433E+14
Aerosols (kg)	0.0000E+00	2.9362E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 24.0000		
Noble gases (atoms)	1.6789E+19	0.0000E+00
Elemental I (atoms)	2.6674E+13	0.0000E+00
Organic I (atoms)	1.1224E+14	0.0000E+00
Aerosols (kg)	2.2646E-10	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	7.6280E-01	1.0996E+01	1.1010E+00
Accumulated dose (rem)	1.8257E+00	1.6618E+01	2.3404E+00

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	2.9422E-02	2.7871E-01	3.7995E-02
Accumulated dose (rem)	1.3886E-01	6.1065E-01	1.5790E-01

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	6.9976E-02	1.6988E+00	1.2417E-01
Accumulated dose (rem)	2.8234E-01	3.7648E+00	4.9921E-01

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	7.6094E-07	9.2465E-17	6.5510E+08	1.0747E+15
Kr-85	1.0851E-01	2.7684E-07	1.9614E+18	1.5184E+15
Kr-88	3.9290E-10	3.1333E-20	2.1442E+05	1.1031E+15
Rb-86	2.0595E-09	2.5312E-17	1.7724E+08	1.3594E+08
Rb-88	1.1430E-09	9.4684E-21	6.4795E+04	8.9489E+14
Sr-89	1.2282E-07	4.2274E-15	2.8605E+10	4.8316E+09
Sr-90	1.3876E-08	1.0173E-13	6.8068E+11	5.2444E+08
Sr-91	1.4518E-10	4.0051E-20	2.6504E+05	1.9436E+09
Y-90	8.9675E-09	1.6482E-17	1.1029E+08	1.1225E+08
Y-91	1.9315E-09	7.8760E-17	5.2121E+08	7.0437E+07
Zr-95	1.8384E-09	8.5574E-17	5.4246E+08	7.1710E+07
Zr-97	3.6110E-11	1.8889E-20	1.1727E+05	3.3185E+07
Nb-95	1.8909E-09	4.8356E-17	3.0653E+08	7.1517E+07
Mo-99	8.8420E-09	1.8436E-17	1.1214E+08	7.1879E+08
Tc-99m	9.0651E-09	1.7240E-18	1.0487E+07	6.7296E+08
Ru-103	1.9550E-08	6.0576E-16	3.5417E+09	7.7804E+08
Ru-106	8.6567E-09	2.5875E-15	1.4700E+10	3.2892E+08
Rh-105	2.4460E-09	2.8979E-18	1.6621E+07	3.8818E+08
Sb-127	1.1748E-08	4.3991E-17	2.0860E+08	7.6327E+08
Te-127	1.5249E-08	5.7781E-18	2.7399E+07	8.1481E+08
Te-127m	4.0580E-09	4.3021E-16	2.0400E+09	1.5416E+08
Te-129	1.0731E-08	5.1243E-19	2.3922E+06	7.3225E+08
Te-129m	1.2410E-08	4.1196E-16	1.9232E+09	4.9777E+08
Te-131m	5.5203E-09	6.9229E-18	3.1825E+07	1.1904E+09
Te-132	1.5542E-07	5.1195E-16	2.3356E+09	1.1174E+10
I-131	2.3942E-04	1.9312E-12	8.8777E+12	4.4912E+12
I-132	1.2006E-05	1.1631E-15	5.3064E+09	5.0888E+11
I-133	2.8496E-05	2.5156E-14	1.1390E+11	3.6493E+12
I-135	2.8029E-08	7.9814E-18	3.5604E+07	1.0171E+12
Xe-133	7.9711E+00	4.2585E-08	1.9282E+17	1.4721E+17
Xe-133m	1.1925E-01	2.7086E-10	1.2265E+15	3.3558E+15
Xe-135	4.5067E-03	1.7647E-12	7.8723E+12	1.0929E+16
Xe-135m	1.6649E-08	1.8289E-19	8.1584E+05	2.6771E+12
Cs-134	2.3807E-07	1.8400E-13	8.2693E+11	1.4024E+10
Cs-136	5.8999E-08	8.0499E-16	3.5645E+09	4.0933E+09
Cs-137	1.8546E-07	2.1322E-12	9.3725E+12	1.0896E+10
Ba-140	1.5352E-07	2.0971E-15	9.0206E+09	6.8128E+09
La-140	1.3497E-07	2.4284E-16	1.0446E+09	2.0341E+09
Ce-141	4.1505E-09	1.4566E-16	6.2213E+08	1.6690E+08
Ce-143	5.8498E-10	8.8088E-19	3.7097E+06	1.0687E+08
Ce-144	3.5764E-09	1.1213E-15	4.6893E+09	1.3611E+08
Pr-143	1.7319E-09	2.5718E-17	1.0831E+08	6.6964E+07
Nd-147	5.4499E-10	6.7367E-18	2.7598E+07	2.4822E+07
Np-239	1.5833E-08	6.8250E-17	1.7197E+08	1.4706E+09
Pu-238	1.1226E-11	6.5573E-16	1.6592E+09	4.2405E+05
Pu-239	1.1410E-12	1.8358E-14	4.6256E+10	4.2881E+04
Pu-240	1.9990E-12	8.7769E-16	2.2023E+09	7.5536E+04
Pu-241	4.4389E-10	4.4887E-15	1.1216E+10	1.6780E+07
Am-241	2.5888E-13	7.5568E-17	1.8883E+08	9.5671E+03
Cm-242	6.7858E-11	2.0500E-17	5.1013E+07	2.5963E+06

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Cm-244 4.5618E-12 5.5733E-17 1.3755E+08 1.7243E+05

CR Transport Group Inventory:

Time (h) =	96.0000	Atmosphere	Sump
Noble gases (atoms)	2.1554E+18	0.0000E+00	
Elemental I (atoms)	4.7808E+10	0.0000E+00	
Organic I (atoms)	8.9163E+12	0.0000E+00	
Aerosols (kg)	2.4632E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.2638E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.2938E-14	
Total I (Ci)		2.7995E-04	

Deposition Recirculating

Time (h) =	96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.2617E+13	
Organic I (atoms)	0.0000E+00	1.3022E+14	
Aerosols (kg)	0.0000E+00	1.2281E-10	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.1580E+19
Elemental I (atoms)	2.2355E+14	2.2581E+12
Organic I (atoms)	2.3292E+15	2.3527E+13
Aerosols (kg)	1.9728E-09	1.9927E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.5518E+18
Elemental I (atoms)	0.0000E+00	4.1816E+13
Organic I (atoms)	0.0000E+00	4.3569E+14
Aerosols (kg)	0.0000E+00	3.6902E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	96.0000	Filtered Transported
Noble gases (atoms)	5.8814E+19	0.0000E+00
Elemental I (atoms)	3.0209E+13	0.0000E+00
Organic I (atoms)	3.1179E+14	0.0000E+00
Aerosols (kg)	2.9404E-10	0.0000E+00

EAB Doses:

Time (h) =	720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2727E+00	2.9487E+01	2.1806E+00	
Accumulated dose (rem)	3.0984E+00	4.6104E+01	4.5210E+00	

LPZ Doses:

Time (h) =	720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4224E-02	2.1657E-01	2.0892E-02	
Accumulated dose (rem)	1.5308E-01	8.2722E-01	1.7880E-01	

CR Doses:

Time (h) =	720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3501E-02	2.1972E+00	1.2114E-01	
Accumulated dose (rem)	3.3584E-01	5.9620E+00	6.2036E-01	

CR Compartment Nuclide Inventory:

Time (h) =	720.0000	Ci	kg	Atoms	Decay
Kr-85	6.7493E-02	1.7219E-07	1.2199E+18	7.8166E+15	
Rb-86	4.7605E-10	5.8506E-18	4.0969E+07	2.1201E+08	
Sr-89	5.2818E-08	1.8180E-15	1.2302E+10	1.0780E+10	
Sr-90	8.5124E-09	6.2404E-14	4.1756E+11	1.3175E+09	
Y-90	8.5571E-09	1.5728E-17	1.0524E+08	8.5969E+08	
Y-91	8.7230E-10	3.5569E-17	2.3539E+08	1.6609E+08	
Zr-95	8.5235E-10	3.9676E-17	2.5151E+08	1.6385E+08	
Nb-95	1.0823E-09	2.7678E-17	1.7545E+08	1.7685E+08	
Mo-99	7.7439E-12	1.6146E-20	9.8216E+04	8.0251E+08	
Ru-103	7.5929E-09	2.3527E-16	1.3755E+09	1.6828E+09	
Ru-106	5.0653E-09	1.5140E-15	8.6016E+09	8.1262E+08	

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Sb-127	6.6918E-11	2.5058E-19	1.1882E+06	9.1567E+08
Te-127	2.2608E-09	8.5664E-19	4.0620E+06	1.1684E+09
Te-127m	2.1535E-09	2.2830E-16	1.0826E+09	3.7188E+08
Te-129	3.8568E-09	1.8416E-19	8.5974E+05	1.0937E+09
Te-129m	4.4603E-09	1.4806E-16	6.9118E+08	1.0528E+09
Te-132	3.7840E-10	1.2464E-18	5.6863E+06	1.2902E+10
I-131	1.5892E-05	1.2819E-13	5.8927E+11	1.0258E+13
I-132	2.9602E-08	2.8678E-18	1.3084E+07	6.6451E+11
Xe-133	1.6211E-01	8.6606E-10	3.9214E+15	2.8620E+17
Xe-133m	2.3041E-05	5.2335E-14	2.3697E+11	4.2960E+15
Cs-134	1.4113E-07	1.0908E-13	4.9023E+11	2.7332E+10
Cs-136	9.0511E-09	1.2350E-16	5.4685E+08	5.9529E+09
Cs-137	1.1243E-07	1.2925E-12	5.6815E+12	2.1375E+10
Ba-140	2.2927E-08	3.1317E-16	1.3471E+09	1.1637E+10
La-140	2.6632E-08	4.7914E-17	2.0610E+08	7.3407E+09
Ce-141	1.4649E-09	5.1410E-17	2.1957E+08	3.5107E+08
Ce-144	2.0626E-09	6.4670E-16	2.7045E+09	3.3457E+08
Pr-143	2.9247E-10	4.3432E-18	1.8291E+07	1.2496E+08
Nd-147	6.4875E-11	8.0193E-19	3.2853E+06	4.0603E+07
Np-239	4.6197E-12	1.9913E-20	5.0175E+04	1.5998E+09
Pu-238	6.9165E-12	4.0401E-16	1.0223E+09	1.0670E+06
Pu-239	7.0376E-13	1.1322E-14	2.8529E+10	1.0836E+05
Pu-240	1.2285E-12	5.3938E-16	1.3534E+09	1.8989E+05
Pu-241	2.7187E-10	2.7492E-15	6.8697E+09	4.2131E+07
Am-241	1.9009E-13	5.5488E-17	1.3865E+08	2.5763E+04
Cm-242	3.7333E-11	1.1278E-17	2.8066E+07	6.2788E+06
Cm-244	2.7955E-12	3.4153E-17	8.4292E+07	4.3303E+05

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	1.2239E+18	0.0000E+00	
Elemental I (atoms)	2.7305E+09	0.0000E+00	
Organic I (atoms)	5.8446E+11	0.0000E+00	
Aerosols (kg)	1.4848E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.4730E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.4731E-15	
Total I (Ci)		1.5921E-05	

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3412E+13
Organic I (atoms)	0.0000E+00	2.9853E+14
Aerosols (kg)	0.0000E+00	2.3248E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3809E+20
Elemental I (atoms)	2.3716E+14	2.3955E+12
Organic I (atoms)	5.2148E+15	5.2675E+13
Aerosols (kg)	3.8561E-09	3.8950E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4092E+19
Elemental I (atoms)	0.0000E+00	4.4362E+13
Organic I (atoms)	0.0000E+00	9.7547E+14
Aerosols (kg)	0.0000E+00	7.2130E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	2.8065E+20	0.0000E+00
Elemental I (atoms)	3.2113E+13	0.0000E+00
Organic I (atoms)	7.1477E+14	0.0000E+00
Aerosols (kg)	5.5663E-10	0.0000E+00

I-131 Summary
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Time (hr)	DW	WW	Dummy
	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4411E-02
0.017	1.8470E+05	0.0000E+00	3.1089E+01
0.083	9.2044E+05	0.0000E+00	7.7298E+02
0.333	3.6817E+06	0.0000E+00	1.0901E+03
0.500	6.8012E+05	0.0000E+00	1.2252E+03
0.750	9.4093E+05	0.0000E+00	1.3469E+03
1.000	9.4889E+05	0.0000E+00	1.4764E+03
1.400	9.5870E+05	0.0000E+00	1.6854E+03
1.700	9.6603E+05	0.0000E+00	1.8434E+03
2.000	9.7334E+05	0.0000E+00	2.0026E+03
2.250	5.9162E+04	4.0983E+04	2.0443E+03
2.400	6.0403E+04	3.7668E+04	2.0510E+03
2.700	6.0349E+04	3.7597E+04	2.0643E+03
3.000	6.0272E+04	3.7549E+04	2.0776E+03
3.300	6.0196E+04	3.7501E+04	2.0909E+03
3.600	6.0119E+04	3.7454E+04	2.1041E+03
3.900	6.0043E+04	3.7406E+04	2.1173E+03
4.000	6.0017E+04	3.7390E+04	2.1217E+03
4.300	5.9941E+04	3.7343E+04	2.1349E+03
4.600	5.9865E+04	3.7295E+04	2.1480E+03
4.900	5.9789E+04	3.7248E+04	2.1611E+03
5.200	5.9713E+04	3.7200E+04	2.1742E+03
5.500	5.9637E+04	3.7153E+04	2.1872E+03
5.800	5.9561E+04	3.7106E+04	2.2002E+03
6.100	5.9485E+04	3.7058E+04	2.2131E+03
6.400	5.9409E+04	3.7011E+04	2.2261E+03
6.700	5.9334E+04	3.6964E+04	2.2389E+03
7.000	5.9258E+04	3.6917E+04	2.2518E+03
7.300	5.9183E+04	3.6870E+04	2.2646E+03
7.600	5.9107E+04	3.6823E+04	2.2774E+03
7.900	5.9032E+04	3.6776E+04	2.2902E+03
8.000	5.9007E+04	3.6761E+04	2.2944E+03
8.300	5.8932E+04	3.6714E+04	2.3071E+03
8.600	5.8857E+04	3.6667E+04	2.3198E+03
8.900	5.8782E+04	3.6621E+04	2.3324E+03
9.200	5.8707E+04	3.6574E+04	2.3451E+03
9.500	5.8632E+04	3.6527E+04	2.3576E+03
9.800	5.8558E+04	3.6481E+04	2.3702E+03
10.100	5.8483E+04	3.6434E+04	2.3827E+03
10.400	5.8409E+04	3.6388E+04	2.3952E+03
16.000	5.7035E+04	3.5532E+04	2.6223E+03
24.000	5.5126E+04	3.4343E+04	2.9278E+03
96.000	4.1555E+04	2.5888E+04	3.5649E+03
720.000	3.5475E+03	2.2101E+03	1.4427E+03

Time (hr)	Environment	CR	MSIV Failed Inboard V
	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	8.3862E-15	5.8179E-18	2.2613E-04
0.017	6.8392E-09	4.7422E-12	2.0418E-01
0.083	4.2130E-06	7.6898E-10	5.0649E+00
0.333	1.0612E-03	1.8940E-07	8.0334E+01
0.500	5.0422E-03	8.8818E-07	1.1108E+02
0.750	1.9399E-02	3.3358E-06	1.3718E+02
1.000	4.6310E-02	7.7709E-06	1.6444E+02
1.400	1.2380E-01	2.0017E-05	2.0699E+02
1.700	2.1777E-01	3.4304E-05	2.3807E+02
2.000	3.5053E-01	5.3858E-05	2.6844E+02
2.250	4.9586E-01	6.6076E-05	2.6808E+02
2.400	5.9889E-01	7.4751E-05	2.6499E+02
2.700	8.4067E-01	9.4893E-05	2.5896E+02
3.000	1.1300E+00	1.1843E-04	2.5311E+02
3.300	1.4669E+00	1.4501E-04	2.4744E+02
3.600	1.8510E+00	1.7429E-04	2.4195E+02
3.900	2.2821E+00	2.0595E-04	2.3663E+02
4.000	2.4361E+00	2.1699E-04	2.3490E+02
4.300	2.9292E+00	2.5138E-04	2.2980E+02
4.600	3.4681E+00	2.8753E-04	2.2486E+02
4.900	4.0524E+00	3.2517E-04	2.2007E+02
5.200	4.6815E+00	3.6409E-04	2.1543E+02
5.500	5.3547E+00	4.0408E-04	2.1094E+02
5.800	6.0713E+00	4.4495E-04	2.0659E+02
6.100	6.8306E+00	4.8653E-04	2.0237E+02
6.400	7.6319E+00	5.2866E-04	1.9828E+02
6.700	8.4742E+00	5.7119E-04	1.9432E+02
7.000	9.3570E+00	6.1399E-04	1.9048E+02
7.300	1.0279E+01	6.5694E-04	1.8676E+02

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7.600	1.1240E+01	6.9991E-04	1.8315E+02
7.900	1.2239E+01	7.4282E-04	1.7965E+02
8.000	1.2580E+01	7.5709E-04	1.7851E+02
8.300	1.3628E+01	7.2428E-04	1.7516E+02
8.600	1.4711E+01	6.9636E-04	1.7191E+02
8.900	1.5830E+01	6.7280E-04	1.6877E+02
9.200	1.6983E+01	6.5312E-04	1.6571E+02
9.500	1.8168E+01	6.3688E-04	1.6276E+02
9.800	1.9387E+01	6.2368E-04	1.5989E+02
10.100	2.0636E+01	6.1319E-04	1.5711E+02
10.400	2.1916E+01	6.0508E-04	1.5442E+02
16.000	5.0412E+01	6.5676E-04	1.1678E+02
24.000	1.0045E+02	7.9825E-04	8.9249E+01
96.000	3.2706E+02	2.3942E-04	5.3722E+01
720.000	9.7799E+02	1.5892E-05	4.5572E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volume I-131 (Curies)
0.000	4.3473E-09	2.2612E-04	5.1186E-09
0.017	1.1791E-04	2.0416E-01	1.3883E-04
0.083	1.4542E-02	5.0623E+00	1.7126E-02
0.333	9.1136E-01	8.0171E+01	1.0739E+00
0.500	2.5825E+00	1.1062E+02	3.0447E+00
0.750	5.5533E+00	1.3616E+02	6.5531E+00
1.000	9.0386E+00	1.6277E+02	1.0675E+01
1.400	1.5597E+01	2.0407E+02	1.8443E+01
1.700	2.1223E+01	2.3405E+02	2.5117E+01
2.000	2.7388E+01	2.6320E+02	3.2436E+01
2.250	3.2607E+01	2.6177E+02	3.8642E+01
2.400	3.5545E+01	2.5808E+02	4.2141E+01
2.700	4.0980E+01	2.5088E+02	4.8625E+01
3.000	4.5864E+01	2.4394E+02	5.4463E+01
3.300	5.0239E+01	2.3726E+02	5.9705E+01
3.600	5.4146E+01	2.3082E+02	6.4395E+01
3.900	5.7623E+01	2.2461E+02	6.8576E+01
4.000	5.8692E+01	2.2260E+02	6.9863E+01
4.300	6.1648E+01	2.1669E+02	7.3425E+01
4.600	6.4250E+01	2.1101E+02	7.6564E+01
4.900	6.6527E+01	2.0553E+02	7.9315E+01
5.200	6.8507E+01	2.0025E+02	8.1707E+01
5.500	7.0213E+01	1.9516E+02	8.3769E+01
5.800	7.1670E+01	1.9026E+02	8.5529E+01
6.100	7.2897E+01	1.8553E+02	8.7011E+01
6.400	7.3916E+01	1.8098E+02	8.8238E+01
6.700	7.4743E+01	1.7659E+02	8.9232E+01
7.000	7.5397E+01	1.7237E+02	9.0012E+01
7.300	7.5892E+01	1.6829E+02	9.0597E+01
7.600	7.6243E+01	1.6437E+02	9.1005E+01
7.900	7.6463E+01	1.6059E+02	9.1251E+01
8.000	7.6509E+01	1.5936E+02	9.1300E+01
8.300	7.6574E+01	1.5576E+02	9.1353E+01
8.600	7.6535E+01	1.5228E+02	9.1277E+01
8.900	7.6402E+01	1.4894E+02	9.1085E+01
9.200	7.6186E+01	1.4572E+02	9.0788E+01
9.500	7.5894E+01	1.4261E+02	9.0396E+01
9.800	7.5534E+01	1.3961E+02	8.9920E+01
10.100	7.5115E+01	1.3672E+02	8.9368E+01
10.400	7.4642E+01	1.3394E+02	8.8749E+01
16.000	6.1586E+01	9.6912E+01	7.1892E+01
24.000	4.5455E+01	7.2786E+01	5.1495E+01
96.000	2.4096E+01	4.5412E+01	2.7244E+01
720.000	2.0339E+00	3.8665E+00	2.3107E+00

Cumulative Dose Summary
#####

	EAB		LPZ		CR	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	4.3532E-10	4.2367E-11	5.9263E-11	5.7676E-12	3.6843E-12	1.3710E-13
0.083	2.6797E-07	2.4969E-08	3.6480E-08	3.3991E-09	2.3714E-09	1.3095E-10
0.333	6.7311E-05	5.5053E-06	9.1633E-06	7.4947E-07	2.2664E-06	1.1830E-07
0.500	3.1927E-04	2.5179E-05	4.3464E-05	3.4278E-06	1.6531E-05	8.4512E-07
0.750	1.2255E-03	1.0626E-04	1.6683E-04	1.4466E-05	1.0334E-04	5.4794E-06
1.000	2.9192E-03	3.1764E-04	3.9741E-04	4.3241E-05	3.4034E-04	2.0248E-05
1.400	7.7827E-03	1.2761E-03	1.0595E-03	1.7372E-04	1.2799E-03	1.0161E-04

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```

1.700 1.3659E-02 2.8651E-03 1.8595E-03 3.9004E-04 2.6903E-03 2.6952E-04
2.000 2.1933E-02 5.5804E-03 2.9858E-03 7.5968E-04 4.9819E-03 6.1372E-04
2.250 3.0961E-02 8.9285E-03 4.2149E-03 1.2155E-03 7.5895E-03 1.0786E-03
2.400 3.7347E-02 1.1440E-02 5.0843E-03 1.5574E-03 9.4283E-03 1.4373E-03
2.700 5.2297E-02 1.7610E-02 7.1194E-03 2.3973E-03 1.3839E-02 2.3711E-03
3.000 7.0129E-02 2.5270E-02 9.5470E-03 3.4401E-03 1.9375E-02 3.6607E-03
3.300 9.0818E-02 3.4366E-02 1.2363E-02 4.6783E-03 2.6197E-02 5.3673E-03
3.600 1.1433E-01 4.4823E-02 1.5565E-02 6.1020E-03 3.4446E-02 7.5434E-03
3.900 1.4064E-01 5.6555E-02 1.9145E-02 7.6991E-03 4.4243E-02 1.0230E-02
4.000 1.5002E-01 6.0732E-02 2.0422E-02 8.2677E-03 4.7872E-02 1.1245E-02
4.300 1.7997E-01 7.4012E-02 2.4500E-02 1.0076E-02 5.9897E-02 1.4657E-02
4.600 2.1262E-01 8.8335E-02 2.8945E-02 1.2025E-02 7.3694E-02 1.8632E-02
4.900 2.4790E-01 1.0360E-01 3.3748E-02 1.4104E-02 8.9335E-02 2.3174E-02
5.200 2.8578E-01 1.1971E-01 3.8904E-02 1.6297E-02 1.0688E-01 2.8281E-02
5.500 3.2618E-01 1.3657E-01 4.4405E-02 1.8592E-02 1.2638E-01 3.3941E-02
5.800 3.6907E-01 1.5409E-01 5.0244E-02 2.0977E-02 1.4787E-01 4.0137E-02
6.100 4.1439E-01 1.7218E-01 5.6413E-02 2.3439E-02 1.7137E-01 4.6847E-02
6.400 4.6207E-01 1.9076E-01 6.2904E-02 2.5969E-02 1.9692E-01 5.4045E-02
6.700 5.1206E-01 2.0976E-01 6.9709E-02 2.8555E-02 2.2452E-01 6.1701E-02
7.000 5.6430E-01 2.2911E-01 7.6821E-02 3.1189E-02 2.5417E-01 6.9783E-02
7.300 6.1873E-01 2.4874E-01 8.4231E-02 3.3862E-02 2.8588E-01 7.8261E-02
7.600 6.7530E-01 2.6861E-01 9.1931E-02 3.6567E-02 3.1963E-01 8.7099E-02
7.900 7.3393E-01 2.8865E-01 9.9913E-02 3.9296E-02 3.5543E-01 9.6266E-02
8.000 7.5393E-01 2.9536E-01 1.0264E-01 4.0209E-02 3.6781E-01 9.9388E-02
8.300 8.1523E-01 3.1557E-01 1.0552E-01 4.1974E-02 4.0441E-01 1.0862E-01
8.600 8.7847E-01 3.3586E-01 1.0850E-01 4.3743E-02 4.3943E-01 1.1741E-01
8.900 9.4359E-01 3.5619E-01 1.1157E-01 4.5513E-02 4.7309E-01 1.2571E-01
9.200 1.0105E+00 3.7652E-01 1.1472E-01 4.7281E-02 5.0561E-01 1.3356E-01
9.500 1.0792E+00 3.9684E-01 1.1796E-01 4.9045E-02 5.3716E-01 1.4098E-01
9.800 1.1496E+00 4.1711E-01 1.2127E-01 5.0803E-02 5.6791E-01 1.4802E-01
10.100 1.2217E+00 4.3732E-01 1.2467E-01 5.2552E-02 5.9801E-01 1.5473E-01
10.400 1.2953E+00 4.5745E-01 1.2814E-01 5.4292E-02 6.2758E-01 1.6113E-01
16.000 2.9044E+00 8.1496E-01 2.0394E-01 8.4791E-02 1.1715E+00 2.6291E-01
24.000 5.6217E+00 1.2394E+00 3.3194E-01 1.1991E-01 2.0660E+00 3.7504E-01
96.000 1.6618E+01 2.3404E+00 6.1065E-01 1.5790E-01 3.7648E+00 4.9921E-01
720.000 4.6104E+01 4.5210E+00 8.2722E-01 1.7880E-01 5.9620E+00 6.2036E-01

```

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
8.0	1.2115E-01	4.4371E-01	1.3522E-01

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Attachment 13.6 - RADTRAD Output File "NMP2MS02.o0"

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:07:27
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2MS02.psf
Inventory file  = c:\radtrad3.03\nmp2\nmp2.nif
Release file    = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Drywell System Bypass Pathway 5 Only Withount Delay Times, CAVEX Core Inventory, and Modified
Offisite X/Q Values
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
0
0
0
Compartment 5:
CR
1
3.8100E+05
```

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```

0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
Compartment 9:
Intact Outboard Volume 4
3
4.8703E+02
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment
1
4
2
Pathway 6:
WW Bypass Pathway 6 to Environment (Released to Dummy)
2
3
2
Pathway 7:
DW to MSIV Failed Inboard Volume 1
1
6
2

```


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Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Released to Dummy)

7
3
2

Pathway 10:

DW to Intact Inboard Volume 3

1
8
2

Pathway 11:

Intact Inboard Volume 3 to Intact Interstitial Volume 4

8
9
2

Pathway 12:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:

Intact Outboard Volume 4 to Environment (Released to Dummy)

9
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+001
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

9
Compartment 1:0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01

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2.2500E+00 1.9800E+01
 2.4000E+00 0.0000E+00
 7.2000E+02 0.0000E+00

1
 0.0000E+00

0
 0
 0
 0
 0

Compartment 2:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 3:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 4:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 5:

1
 1
 0
 0
 0
 0
 1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01
 7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0
 0

Compartment 6:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 7:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 8:

0
 1

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0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0
0

Pathway 4:

0
0
0
0
0
1

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4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
2.4000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
9.6000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 8:
0
0
0
0
0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
9.6000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00

```

7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 9:				
0				
0				
0				
0				
0				
1				
5				
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
Pathway 10:				
0				
0				
0				
0				
0				
1				
3				
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
Pathway 11:				
0				
0				
0				
0				
0				
1				
5				
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
Pathway 12:				
0				
0				
0				
0				
0				
1				
3				
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				

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```

0
Pathway 13:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 15:
0
0
0
0
0
1
5
0.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
2.4000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
9.6000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.4600E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4
1
5
0.0000E+00  1.9800E-05

```

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8.0000E+00  1.3300E-05
2.4000E+01  5.6100E-06
9.6000E+01  1.6300E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o638
1
1
1
0
0
End of Scenario File

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:07:27
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du
 Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Rele
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Release

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

Name: MSIV Failed Inboard Volume 1

Compartment volume = 3.9068E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 6

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Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7

Name: MSIV Failed Outboard Volume 2

Compartment volume = 4.2841E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 7

Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Rele

Compartment number 8

Name: Intact Inboard Volume 3

Compartment volume = 3.3181E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 8

Inlet Pathway Number 10: DW to Intact Inboard Volume 3

Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Interstitial Vol

Compartment number 9

Name: Intact Outboard Volume 4

Compartment volume = 4.8703E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 9

Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Interstitial Vol

Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Release

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:07:27
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00

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9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Rele

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Interstitial Vol

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00

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1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Release)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4600E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.9800E-05
8.0000E+00	1.3300E-05
2.4000E+01	5.6100E-06
9.6000E+01	1.6300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:07:27
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#####
Dose, Detailed model and Detailed Inventory Output
#####
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9071E-05	1.6716E-03	8.9046E-05	
Accumulated dose (rem)	1.9071E-05	1.6716E-03	8.9046E-05	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5863E-06	2.2670E-04	1.2076E-05	
Accumulated dose (rem)	2.5863E-06	2.2670E-04	1.2076E-05	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2220E-08	1.6332E-05	6.9592E-07	
Accumulated dose (rem)	1.2220E-08	1.6332E-05	6.9592E-07	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m	7.7282E-06	3.8071E-16	2.7623E+09	1.0205E+07	
Kr-85m	1.7466E-05	2.1224E-15	1.5037E+10	2.3034E+07	
Kr-85	8.8517E-07	2.2583E-12	1.6000E+13	1.1663E+06	
Kr-87	3.5010E-05	1.2360E-15	8.5555E+09	4.6275E+07	
Kr-88	4.7808E-05	3.8126E-15	2.6091E+10	6.3079E+07	
Rb-86	3.2393E-08	3.9811E-16	2.7877E+09	4.2680E+04	
Rb-88	1.3848E-05	1.1472E-16	7.8504E+08	1.7265E+07	
I-131	1.4715E-05	1.1870E-13	5.4566E+11	1.9389E+07	
I-132	2.1333E-05	2.0667E-15	9.4288E+09	2.8153E+07	
I-133	3.0498E-05	2.6922E-14	1.2190E+11	4.0190E+07	
I-134	3.4546E-05	1.2950E-15	5.8199E+09	4.5728E+07	
I-135	2.8787E-05	8.1971E-15	3.6566E+10	3.7952E+07	
Xe-133	1.0829E-04	5.7853E-13	2.6195E+12	1.4268E+08	
Xe-133m	3.3215E-06	7.5444E-15	3.4161E+10	4.3763E+06	
Xe-135	4.5540E-05	1.7833E-14	7.9550E+10	5.9973E+07	
Xe-135m	2.1862E-05	2.4015E-16	1.0713E+09	2.9045E+07	
Xe-138	9.2520E-05	9.6423E-16	4.2078E+09	1.2402E+08	
Cs-134	3.2394E-06	2.5037E-12	1.1252E+13	4.2680E+06	
Cs-136	9.8833E-07	1.3485E-14	5.9712E+10	1.3022E+06	
Cs-137	2.5149E-06	2.8913E-11	1.2709E+14	3.3135E+06	

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	1.8791E+13	0.0000E+00	
Elemental I (atoms)	6.1910E+10	0.0000E+00	
Organic I (atoms)	3.8295E+09	0.0000E+00	
Aerosols (kg)	3.1573E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.9267E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.4675E-15	
Total I (Ci)		1.2988E-04	

Deposition Recirculating

Time (h) =	0.0167	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	

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Aerosols (kg) 0.0000E+00 0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4106E+13
Elemental I (atoms)	0.0000E+00	4.6484E+10
Organic I (atoms)	0.0000E+00	2.8753E+09
Aerosols (kg)	0.0000E+00	2.3701E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7018E+12
Elemental I (atoms)	0.0000E+00	1.5495E+10
Organic I (atoms)	0.0000E+00	9.5844E+08
Aerosols (kg)	0.0000E+00	7.9003E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	1.6476E+10	0.0000E+00
Elemental I (atoms)	5.4296E+07	0.0000E+00
Organic I (atoms)	3.3585E+06	0.0000E+00
Aerosols (kg)	2.7685E-14	0.0000E+00

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3700E-04	3.9870E-02	2.1060E-03
Accumulated dose (rem)	4.5607E-04	4.1542E-02	2.1950E-03

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9264E-05	5.4070E-03	2.8560E-04
Accumulated dose (rem)	6.1851E-05	5.6337E-03	2.9768E-04

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2602E-06	6.0529E-04	2.6618E-05
Accumulated dose (rem)	1.2724E-06	6.2163E-04	2.7314E-05

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	2.9370E-04	1.4469E-14	1.0498E+11	1.2599E+09
Kr-85m	6.7349E-04	8.1838E-14	5.7981E+11	2.8754E+09
Kr-85	3.4485E-05	8.7980E-11	6.2333E+14	1.4674E+08
Kr-87	1.3153E-03	4.6436E-14	3.2143E+11	5.6636E+09
Kr-88	1.8325E-03	1.4614E-13	1.0001E+12	7.8389E+09
Rb-86	2.3365E-07	2.8715E-15	2.0108E+10	1.1548E+06
Rb-88	2.1849E-04	1.8100E-15	1.2386E+10	7.3970E+08
I-131	1.0613E-04	8.5604E-13	3.9353E+12	5.2456E+08
I-132	1.5168E-04	1.4695E-14	6.7041E+10	7.5398E+08
I-133	2.1951E-04	1.9378E-13	8.7740E+11	1.0858E+09
I-134	2.3642E-04	8.8624E-15	3.9829E+10	1.1926E+09
I-135	2.0621E-04	5.8719E-14	2.6194E+11	1.0219E+09
Xe-133	4.2184E-03	2.2536E-11	1.0204E+14	1.7951E+10
Xe-133m	1.2936E-04	2.9383E-13	1.3304E+12	5.5051E+08
Xe-135	1.7806E-03	6.9726E-13	3.1104E+12	7.5691E+09
Xe-135m	7.7384E-04	8.5007E-15	3.7920E+10	3.4111E+09
Xe-138	2.9657E-03	3.0908E-14	1.3488E+11	1.3462E+10
Cs-134	2.3368E-05	1.8061E-11	8.1167E+13	1.1549E+08
Cs-136	7.1284E-06	9.7262E-14	4.3068E+11	3.5233E+07
Cs-137	1.8142E-05	2.0857E-10	9.1681E+14	8.9662E+07

CR Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	7.3199E+14	0.0000E+00
Elemental I (atoms)	4.4593E+11	0.0000E+00
Organic I (atoms)	2.7583E+10	0.0000E+00
Aerosols (kg)	2.2776E-10	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3882E-14

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 1.7746E-14
 Total I (Ci) 9.1995E-04

	Deposition Recirculating	
Time (h) = 0.0833	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.4830E+09
Organic I (atoms)	0.0000E+00	9.1731E+07
Aerosols (kg)	0.0000E+00	7.5696E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.2011E+14
Elemental I (atoms)	1.9752E+12	6.6436E+10
Organic I (atoms)	1.2218E+11	4.1095E+09
Aerosols (kg)	1.0081E-09	3.3884E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1693E+14
Elemental I (atoms)	0.0000E+00	3.8497E+11
Organic I (atoms)	0.0000E+00	2.3813E+10
Aerosols (kg)	0.0000E+00	1.9647E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	4.9957E+12	0.0000E+00
Elemental I (atoms)	3.6050E+09	0.0000E+00
Organic I (atoms)	2.2299E+08	0.0000E+00
Aerosols (kg)	1.8401E-12	0.0000E+00

EAB Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9817E-03	6.2178E-01	3.2009E-02
Accumulated dose (rem)	6.4377E-03	6.6332E-01	3.4204E-02

LPZ Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.1121E-04	8.4323E-02	4.3410E-03
Accumulated dose (rem)	8.7306E-04	8.9957E-02	4.6386E-03

CR Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5103E-05	2.9862E-02	1.3200E-03
Accumulated dose (rem)	6.6376E-05	3.0484E-02	1.3473E-03

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	4.2558E-03	2.0965E-13	1.5211E+12	6.8242E+10
Kr-85m	1.0305E-02	1.2522E-12	8.8720E+12	1.6219E+11
Kr-85	5.4849E-04	1.3993E-09	9.9140E+15	8.5192E+09
Kr-87	1.8255E-02	6.4447E-13	4.4610E+12	2.9714E+11
Kr-88	2.7421E-02	2.1868E-12	1.4965E+13	4.3486E+11
Rb-86	3.2904E-06	4.0439E-14	2.8317E+11	5.1990E+07
Rb-88	7.2707E-03	6.0229E-14	4.1217E+11	8.6773E+10
I-131	1.4939E-03	1.2050E-11	5.5394E+13	2.3608E+10
I-132	2.0328E-03	1.9693E-13	8.9845E+11	3.2694E+10
I-133	3.0669E-03	2.7073E-12	1.2259E+13	4.8592E+10
I-134	2.7334E-03	1.0246E-13	4.6048E+11	4.6311E+10
I-135	2.8300E-03	8.0586E-13	3.5948E+12	4.5119E+10
Xe-133	6.7064E-02	3.5828E-10	1.6223E+15	1.0418E+12
Xe-133m	2.0551E-03	4.6679E-12	2.1136E+13	3.1933E+10
Xe-135	2.8679E-02	1.1230E-11	5.0096E+13	4.4375E+11
Xe-135m	9.0092E-03	9.8967E-14	4.4147E+11	1.5627E+11
Xe-138	2.2682E-02	2.3638E-13	1.0315E+12	4.6035E+11
Cs-134	3.2921E-04	2.5444E-10	1.1435E+15	5.2010E+09
Cs-136	1.0037E-04	1.3695E-12	6.0643E+12	1.5860E+09
Cs-137	2.5559E-04	2.9384E-09	1.2916E+16	4.0378E+09

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CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)	1.1639E+16	0.0000E+00	
Elemental I (atoms)	6.2487E+12	0.0000E+00	
Organic I (atoms)	3.8651E+11	0.0000E+00	
Aerosols (kg)	3.2087E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.9475E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.4739E-13	
Total I (Ci)		1.2157E-02	

		Deposition	Recirculating
Time (h) =	0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	7.4856E+10	
Organic I (atoms)	0.0000E+00	4.6303E+09	
Aerosols (kg)	0.0000E+00	3.8365E-11	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0097E+16
Elemental I (atoms)	3.2754E+13	3.7733E+11
Organic I (atoms)	2.0260E+12	2.3340E+10
Aerosols (kg)	1.6775E-08	1.9315E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8719E+15
Elemental I (atoms)	0.0000E+00	6.1424E+12
Organic I (atoms)	0.0000E+00	3.7994E+11
Aerosols (kg)	0.0000E+00	3.1458E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	3.2750E+14	0.0000E+00
Elemental I (atoms)	1.7928E+11	0.0000E+00
Organic I (atoms)	1.1090E+10	0.0000E+00
Aerosols (kg)	9.1886E-11	0.0000E+00

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5226E-03	2.6711E-01	1.5675E-02	
Accumulated dose (rem)	1.0960E-02	9.3043E-01	4.9879E-02	

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1334E-04	3.6224E-02	2.1258E-03	
Accumulated dose (rem)	1.4864E-03	1.2618E-01	6.7645E-03	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3099E-04	5.4933E-02	2.4472E-03	
Accumulated dose (rem)	1.9736E-04	8.5417E-02	3.7945E-03	

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m	8.8825E-03	4.3758E-13	3.1749E+12	2.1500E+11	
Kr-85m	2.2305E-02	2.7103E-12	1.9202E+13	5.2488E+11	
Kr-85	1.2182E-03	3.1078E-09	2.2019E+16	2.8105E+10	
Kr-87	3.7022E-02	1.3070E-12	9.0472E+12	9.1665E+11	
Kr-88	5.8472E-02	4.6631E-12	3.1911E+13	1.3919E+12	
Rb-86	4.4057E-06	5.4145E-14	3.7915E+11	1.4264E+08	
Rb-88	1.9234E-02	1.5933E-13	1.0904E+12	3.5805E+11	
I-131	2.0064E-03	1.6184E-11	7.4399E+13	6.4822E+10	
I-132	2.6261E-03	2.5441E-13	1.1607E+12	8.7687E+10	
I-133	4.0987E-03	3.6181E-12	1.6383E+13	1.3298E+11	
I-134	3.2197E-03	1.2069E-13	5.4241E+11	1.1680E+11	
I-135	3.7373E-03	1.0642E-12	4.7472E+12	1.2251E+11	

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Xe-133	1.4888E-01	7.9540E-10	3.6015E+15	3.4361E+12
Xe-133m	4.5593E-03	1.0356E-11	4.6891E+13	1.0528E+11
Xe-135	6.3929E-02	2.5034E-11	1.1167E+14	1.4709E+12
Xe-135m	1.5640E-02	1.7180E-13	7.6639E+11	4.4131E+11
Xe-138	3.0915E-02	3.2219E-13	1.4060E+12	1.0813E+12
Cs-134	4.4090E-04	3.4077E-10	1.5315E+15	1.4272E+10
Cs-136	1.3438E-04	1.8335E-12	8.1188E+12	4.3512E+09
Cs-137	3.4230E-04	3.9353E-09	1.7299E+16	1.1080E+10

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	2.5844E+16	0.0000E+00	
Elemental I (atoms)	8.3394E+12	0.0000E+00	
Organic I (atoms)	8.4713E+11	0.0000E+00	
Aerosols (kg)	4.2974E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.6099E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3021E-13	
Total I (Ci)		1.5688E-02	

	Deposition	Recirculating
Time (h) =	0.5000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.0961E+11
Organic I (atoms)	0.0000E+00	1.5205E+10
Aerosols (kg)	0.0000E+00	1.0768E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.2736E+16
Elemental I (atoms)	4.5822E+13	5.0933E+11
Organic I (atoms)	4.5558E+12	4.8893E+10
Aerosols (kg)	2.3490E-08	2.6098E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.2125E+15
Elemental I (atoms)	0.0000E+00	8.5868E+12
Organic I (atoms)	0.0000E+00	8.5314E+11
Aerosols (kg)	0.0000E+00	4.4019E-09

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	1.0958E+15	0.0000E+00
Elemental I (atoms)	5.0191E+11	0.0000E+00
Organic I (atoms)	3.6410E+10	0.0000E+00
Aerosols (kg)	2.5784E-10	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3941E-01	1.6884E+00	3.2053E-01	
Accumulated dose (rem)	2.5037E-01	2.6189E+00	3.7041E-01	

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2467E-02	2.2898E-01	4.3470E-02	
Accumulated dose (rem)	3.3954E-02	3.5516E-01	5.0234E-02	

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0623E-02	8.4431E-01	6.6639E-02	
Accumulated dose (rem)	2.0820E-02	9.2972E-01	7.0433E-02	

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m	2.9711E-01	1.4637E-11	1.0620E+14	2.8134E+13	
Kr-85m	1.0346E+00	1.2571E-10	8.9067E+14	8.8734E+13	
Kr-85	7.1264E-02	1.8181E-07	1.2881E+18	5.7163E+12	
Kr-87	9.5616E-01	3.3756E-11	2.3366E+14	9.8316E+13	

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Kr-88	2.3719E+00	1.8916E-10	1.2945E+15	2.1172E+14
Rb-86	7.3368E-06	9.0169E-14	6.3141E+11	1.3530E+09
Rb-88	1.7462E+00	1.4465E-11	9.8989E+13	9.7016E+13
Sr-89	2.5617E-04	8.8176E-12	5.9664E+13	2.8029E+10
Sr-90	2.7436E-05	2.0113E-10	1.3458E+15	3.0010E+09
Sr-91	2.7319E-04	7.5362E-14	4.9873E+11	3.1020E+10
Sr-92	1.9623E-04	1.5612E-14	1.0219E+11	2.4539E+10
Y-90	5.0304E-07	9.2459E-16	6.1867E+09	4.5308E+07
Y-91	3.2548E-06	1.3272E-13	8.7830E+11	3.5421E+08
Y-92	3.2641E-05	3.3922E-15	2.2205E+10	2.4577E+09
Y-93	3.1261E-06	9.3699E-16	6.0674E+09	3.5417E+08
Zr-95	3.7913E-06	1.7648E-13	1.1187E+12	4.1481E+08
Zr-97	3.3723E-06	1.7641E-15	1.0952E+10	3.7667E+08
Nb-95	3.7426E-06	9.5711E-14	6.0672E+11	4.0936E+08
Mo-99	4.6905E-05	9.7797E-14	5.9490E+11	5.1581E+09
Tc-99m	4.2137E-05	8.0136E-15	4.8746E+10	4.5886E+09
Ru-103	4.1409E-05	1.2831E-12	7.5017E+12	4.5312E+09
Ru-105	2.1619E-05	3.2162E-15	1.8446E+10	2.5636E+09
Ru-106	1.7238E-05	5.1524E-12	2.9272E+13	1.8856E+09
Rh-105	2.7410E-05	3.2474E-14	1.8625E+11	3.0008E+09
Sb-127	4.7004E-05	1.7601E-13	8.3461E+11	5.1611E+09
Sb-129	1.0696E-04	1.9020E-14	8.8794E+10	1.2712E+10
Te-127	4.7111E-05	1.7851E-14	8.4647E+10	5.1377E+09
Te-127m	8.0707E-06	8.5562E-13	4.0572E+12	8.8278E+08
Te-129	1.2095E-04	5.7752E-15	2.6961E+10	1.3478E+10
Te-129m	2.6469E-05	8.7862E-13	4.1017E+12	2.8952E+09
Te-131m	9.5746E-05	1.2007E-13	5.5198E+11	1.0597E+10
Te-132	7.0680E-04	2.3281E-12	1.0621E+13	7.7661E+10
I-131	4.1549E-03	3.3514E-11	1.5407E+14	6.9774E+11
I-132	4.6042E-03	4.4605E-13	2.0350E+12	8.3731E+11
I-133	8.1135E-03	7.1623E-12	3.2430E+13	1.3938E+12
I-134	2.0465E-03	7.6716E-14	3.4477E+11	6.7190E+11
I-135	6.6453E-03	1.8923E-12	8.4411E+12	1.2062E+12
Xe-133	8.6685E+00	4.6311E-08	2.0969E+17	6.9642E+14
Xe-133m	2.6356E-01	5.9865E-10	2.7107E+15	2.1224E+13
Xe-135	3.6892E+00	1.4446E-09	6.4443E+15	2.9939E+14
Xe-135m	1.2044E-01	1.3230E-12	5.9017E+12	1.9843E+13
Xe-138	2.2356E-02	2.3299E-13	1.0167E+12	1.1445E+13
Cs-134	7.3590E-04	5.6878E-10	2.5562E+15	1.3555E+11
Cs-136	2.2356E-04	3.0503E-12	1.3507E+13	4.1250E+10
Cs-137	5.7136E-04	6.5688E-09	2.8874E+16	1.0524E+11
Ba-139	1.4180E-04	8.6689E-15	3.7558E+10	2.0338E+10
Ba-140	3.7553E-04	5.1296E-12	2.2065E+13	4.1125E+10
La-140	8.5682E-06	1.5415E-14	6.6309E+10	7.2652E+08
La-141	2.4887E-06	4.4005E-16	1.8795E+09	2.9828E+08
La-142	1.4136E-06	9.8750E-17	4.1879E+08	1.9672E+08
Ce-141	8.9039E-06	3.1249E-13	1.3346E+12	9.7413E+08
Ce-143	8.3282E-06	1.2541E-14	5.2813E+10	9.2075E+08
Ce-144	7.1370E-06	2.2377E-12	9.3581E+12	7.8072E+08
Pr-143	3.4077E-06	5.0605E-14	2.1311E+11	3.7236E+08
Nd-147	1.3794E-06	1.7051E-14	6.9854E+10	1.5109E+08
Np-239	9.9118E-05	4.2725E-13	1.0765E+12	1.0910E+10
Pu-238	2.2180E-08	1.2956E-12	3.2782E+12	2.4261E+06
Pu-239	2.2373E-09	3.5994E-11	9.0695E+13	2.4470E+05
Pu-240	3.9513E-09	1.7349E-12	4.3531E+12	4.3221E+05
Pu-241	8.7786E-07	8.8769E-12	2.2182E+13	9.6023E+07
Am-241	4.9673E-10	1.4499E-13	3.6231E+11	5.4327E+04
Cm-242	1.3638E-07	4.1201E-14	1.0253E+11	1.4920E+07
Cm-244	9.0209E-09	1.1021E-13	2.7201E+11	9.8674E+05

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	1.5095E+18	0.0000E+00	
Elemental I (atoms)	1.5725E+13	0.0000E+00	
Organic I (atoms)	1.5574E+13	0.0000E+00	
Aerosols (kg)	7.4692E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.3086E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.5600E-13	
Total I (Ci)		2.5565E-02	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.1589E+12
Organic I (atoms)	0.0000E+00	1.0793E+12
Aerosols (kg)	0.0000E+00	1.0560E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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	Pathway	
Time (h) =	2.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4542E+18
Elemental I (atoms)	1.1860E+14	1.2444E+12
Organic I (atoms)	9.8544E+13	9.9826E+11
Aerosols (kg)	5.5824E-08	5.8758E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6930E+17
Elemental I (atoms)	0.0000E+00	2.2200E+13
Organic I (atoms)	0.0000E+00	1.8434E+13
Aerosols (kg)	0.0000E+00	1.0450E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	
	Filtered	Transported
Noble gases (atoms)	2.1260E+17	0.0000E+00
Elemental I (atoms)	5.1690E+12	0.0000E+00
Organic I (atoms)	2.5843E+12	0.0000E+00
Aerosols (kg)	2.5283E-09	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.8690E-02	7.7451E-02	4.2111E-02
Accumulated dose (rem)		2.8906E-01	2.6963E+00	4.1252E-01

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.2470E-03	1.0504E-02	5.7110E-03
Accumulated dose (rem)		3.9201E-02	3.6566E-01	5.5945E-02

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.5402E-03	1.8242E-01	2.1439E-02
Accumulated dose (rem)		2.9360E-02	1.1121E+00	9.1872E-02

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		2.9327E-01	1.4448E-11	1.0483E+14	3.8128E+13
Kr-85m		1.0784E+00	1.3104E-10	9.2840E+14	1.2449E+14
Kr-85		7.7212E-02	1.9699E-07	1.3956E+18	8.2279E+12
Kr-87		9.0399E-01	3.1914E-11	2.2091E+14	1.2980E+14
Kr-88		2.4178E+00	1.9282E-10	1.3195E+15	2.9279E+14
Rb-86		6.8292E-06	8.3931E-14	5.8773E+11	1.5866E+09
Rb-88		2.0564E+00	1.7035E-11	1.1657E+14	1.5135E+14
Sr-89		2.4096E-04	8.2940E-12	5.6121E+13	3.6259E+10
Sr-90		2.5810E-05	1.8921E-10	1.2661E+15	3.8825E+09
Sr-91		2.5236E-04	6.9616E-14	4.6070E+11	3.9718E+10
Sr-92		1.7317E-04	1.3777E-14	9.0183E+10	3.0648E+10
Y-90		5.3695E-07	9.8692E-16	6.6037E+09	6.2054E+07
Y-91		3.0738E-06	1.2534E-13	8.2947E+11	4.5889E+08
Y-92		3.7231E-05	3.8692E-15	2.5327E+10	3.5563E+09
Y-93		2.8909E-06	8.6649E-16	5.6109E+09	4.5376E+08
Zr-95		3.5663E-06	1.6601E-13	1.0523E+12	5.3661E+08
Zr-97		3.1401E-06	1.6426E-15	1.0198E+10	4.8447E+08
Nb-95		3.5209E-06	9.0041E-14	5.7078E+11	5.2961E+08
Mo-99		4.4011E-05	9.1762E-14	5.5819E+11	6.6632E+09
Tc-99m		3.9622E-05	7.5353E-15	4.5837E+10	5.9352E+09
Ru-103		3.8949E-05	1.2068E-12	7.0560E+12	5.8615E+09
Ru-105		1.9560E-05	2.9098E-15	1.6689E+10	3.2450E+09
Ru-106		1.6216E-05	4.8471E-12	2.7538E+13	2.4394E+09
Rh-105		2.5757E-05	3.0516E-14	1.7502E+11	3.8804E+09
Sb-127		4.4136E-05	1.6527E-13	7.8369E+11	6.6699E+09
Sb-129		9.6667E-05	1.7190E-14	8.0249E+10	1.6082E+10
Te-127		4.4311E-05	1.6790E-14	7.9615E+10	6.6462E+09
Te-127m		7.5926E-06	8.0493E-13	3.8168E+12	1.1421E+09
Te-129		1.1112E-04	5.3059E-15	2.4770E+10	1.7234E+10
Te-129m		2.4900E-05	8.2655E-13	3.8586E+12	3.7456E+09
Te-131m		8.9555E-05	1.1231E-13	5.1629E+11	1.3664E+10

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Te-132	6.6346E-04	2.1854E-12	9.9701E+12	1.0035E+11
I-131	3.9092E-03	3.1532E-11	1.4495E+14	8.3100E+11
I-132	4.1013E-03	3.9733E-13	1.8127E+12	9.8106E+11
I-133	7.5768E-03	6.6885E-12	3.0285E+13	1.6531E+12
I-134	1.5815E-03	5.9284E-14	2.6643E+11	7.3153E+11
I-135	6.0958E-03	1.7358E-12	7.7430E+12	1.4166E+12
Xe-133	9.3811E+00	5.0118E-08	2.2693E+17	1.0018E+15
Xe-133m	2.8475E-01	6.4677E-10	2.9285E+15	3.0500E+13
Xe-135	3.9415E+00	1.5434E-09	6.8850E+15	4.2861E+14
Xe-135m	7.6527E-02	8.4065E-13	3.7500E+12	2.3226E+13
Xe-138	1.1647E-02	1.2138E-13	5.2970E+11	1.2001E+13
Cs-134	6.8525E-04	5.2963E-10	2.3802E+15	1.5898E+11
Cs-136	2.0806E-04	2.8388E-12	1.2570E+13	4.8367E+10
Cs-137	5.3204E-04	6.1167E-09	2.6887E+16	1.2344E+11
Ba-139	1.1764E-04	7.1919E-15	3.1159E+10	2.4622E+10
Ba-140	3.5309E-04	4.8230E-12	2.0746E+13	5.3187E+10
La-140	9.4389E-06	1.6982E-14	7.3047E+10	1.0144E+09
La-141	2.2402E-06	3.9613E-16	1.6919E+09	3.7652E+08
La-142	1.1885E-06	8.3023E-17	3.5210E+08	2.3970E+08
Ce-141	8.3751E-06	2.9393E-13	1.2554E+12	1.2602E+09
Ce-143	7.7938E-06	1.1736E-14	4.9424E+10	1.1876E+09
Ce-144	6.7141E-06	2.1051E-12	8.8034E+12	1.0100E+09
Pr-143	3.2081E-06	4.7641E-14	2.0063E+11	4.8186E+08
Nd-147	1.2968E-06	1.6031E-14	6.5672E+10	1.9539E+08
Np-239	9.2961E-05	4.0071E-13	1.0097E+12	1.4089E+10
Pu-238	2.0866E-08	1.2188E-12	3.0840E+12	3.1388E+06
Pu-239	2.1048E-09	3.3863E-11	8.5325E+13	3.1658E+05
Pu-240	3.7173E-09	1.6321E-12	4.0953E+12	5.5917E+05
Pu-241	8.2585E-07	8.3510E-12	2.0868E+13	1.2423E+08
Am-241	4.6734E-10	1.3642E-13	3.4088E+11	7.0286E+04
Cm-242	1.2830E-07	3.8758E-14	9.6450E+10	1.9301E+07
Cm-244	8.4865E-09	1.0368E-13	2.5589E+11	1.2766E+06

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	1.6349E+18	0.0000E+00		
Elemental I (atoms)	1.4604E+13	0.0000E+00		
Organic I (atoms)	1.6273E+13	0.0000E+00		
Aerosols (kg)	6.9613E-09	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.9801E-13		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.1327E-13		
Total I (Ci)		2.3265E-02		

Deposition Recirculating

Time (h) =	2.2500	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	2.5601E+12		
Organic I (atoms)	0.0000E+00	1.5000E+12		
Aerosols (kg)	0.0000E+00	1.2467E-09		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6443E+18	
Elemental I (atoms)	1.2013E+14	1.2599E+12	
Organic I (atoms)	1.0966E+14	1.1105E+12	
Aerosols (kg)	5.6509E-08	5.9450E-10	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0450E+17	
Elemental I (atoms)	0.0000E+00	2.2486E+13	
Organic I (atoms)	0.0000E+00	2.0513E+13	
Aerosols (kg)	0.0000E+00	1.0578E-08	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	3.1200E+17	0.0000E+00	
Elemental I (atoms)	6.1298E+12	0.0000E+00	
Organic I (atoms)	3.5915E+12	0.0000E+00	
Aerosols (kg)	2.9850E-09	0.0000E+00	

EAB Doses:

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Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1548E-02	2.1781E-02	2.2430E-02
Accumulated dose (rem)		3.1060E-01	2.7181E+00	4.3495E-01

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9223E-03	2.9539E-03	3.0418E-03
Accumulated dose (rem)		4.2123E-02	3.6862E-01	5.8987E-02

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.2412E-03	1.0321E-01	1.3006E-02
Accumulated dose (rem)		3.4602E-02	1.2154E+00	1.0488E-01

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		2.8897E-01	1.4235E-11	1.0329E+14	4.4013E+13
Kr-85m		1.0979E+00	1.3341E-10	9.4517E+14	1.4649E+14
Kr-85		8.0453E-02	2.0525E-07	1.4542E+18	9.8211E+12
Kr-87		8.6798E-01	3.0643E-11	2.1211E+14	1.4771E+14
Kr-88		2.4287E+00	1.9369E-10	1.3255E+15	3.4178E+14
Rb-86		6.4849E-06	7.9699E-14	5.5809E+11	1.7177E+09
Rb-88		2.1634E+00	1.7922E-11	1.2264E+14	1.8819E+14
Sr-89		2.2911E-04	7.8862E-12	5.3361E+13	4.0888E+10
Sr-90		2.4543E-05	1.7992E-10	1.2039E+15	4.3784E+09
Sr-91		2.3735E-04	6.5477E-14	4.3331E+11	4.4540E+10
Sr-92		1.5847E-04	1.2608E-14	8.2528E+10	3.3913E+10
Y-90		5.4909E-07	1.0092E-15	6.7531E+09	7.2531E+07
Y-91		2.9300E-06	1.1948E-13	7.9066E+11	5.1797E+08
Y-92		3.9027E-05	4.0559E-15	2.6549E+10	4.2813E+09
Y-93		2.7208E-06	8.1551E-16	5.2807E+09	5.0902E+08
Zr-95		3.3910E-06	1.5785E-13	1.0006E+12	6.0513E+08
Zr-97		2.9677E-06	1.5524E-15	9.6378E+09	5.4462E+08
Nb-95		3.3480E-06	8.5620E-14	5.4276E+11	5.9725E+08
Mo-99		4.1784E-05	8.7120E-14	5.2995E+11	7.5081E+09
Tc-99m		3.7665E-05	7.1630E-15	4.3573E+10	6.6928E+09
Ru-103		3.7033E-05	1.1474E-12	6.7088E+12	6.6098E+09
Ru-105		1.8169E-05	2.7029E-15	1.5502E+10	3.6164E+09
Ru-106		1.5420E-05	4.6090E-12	2.6185E+13	2.7510E+09
Rh-105		2.4475E-05	2.8997E-14	1.6631E+11	4.3748E+09
Sb-127		4.1922E-05	1.5698E-13	7.4438E+11	7.5174E+09
Sb-129		8.9735E-05	1.5957E-14	7.4494E+10	1.7917E+10
Te-127		4.2129E-05	1.5963E-14	7.5696E+10	7.4948E+09
Te-127m		7.2198E-06	7.6541E-13	3.6295E+12	1.2880E+09
Te-129		1.0410E-04	4.9708E-15	2.3205E+10	1.9309E+10
Te-129m		2.3677E-05	7.8595E-13	3.6691E+12	4.2240E+09
Te-131m		8.4864E-05	1.0642E-13	4.8924E+11	1.5382E+10
Te-132		6.3004E-04	2.0753E-12	9.4680E+12	1.1308E+11
I-131		3.7367E-03	3.0141E-11	1.3856E+14	9.0642E+11
I-132		3.7859E-03	3.6678E-13	1.6733E+12	1.0587E+12
I-133		7.2101E-03	6.3648E-12	2.8819E+13	1.7989E+12
I-134		1.3434E-03	5.0357E-14	2.2631E+11	7.6031E+11
I-135		5.7389E-03	1.6341E-12	7.2897E+12	1.5334E+12
Xe-133		9.7678E+00	5.2183E-08	2.3628E+17	1.1953E+15
Xe-133m		2.9618E-01	6.7274E-10	3.0461E+15	3.6371E+13
Xe-135		4.0702E+00	1.5938E-09	7.1098E+15	5.0962E+14
Xe-135m		5.6749E-02	6.2339E-13	2.7808E+12	2.4587E+13
Xe-138		7.8212E-03	8.1512E-14	3.5571E+11	1.2196E+13
Cs-134		6.5084E-04	5.0304E-10	2.2607E+15	1.7214E+11
Cs-136		1.9755E-04	2.6954E-12	1.1935E+13	5.2360E+10
Cs-137		5.0533E-04	5.8096E-09	2.5537E+16	1.3365E+11
Ba-139		1.0373E-04	6.3419E-15	2.7476E+10	2.6799E+10
Ba-140		3.3564E-04	4.5847E-12	1.9721E+13	5.9970E+10
La-140		9.8073E-06	1.7644E-14	7.5898E+10	1.1992E+09
La-141		2.0746E-06	3.6684E-16	1.5668E+09	4.1900E+08
La-142		1.0564E-06	7.3798E-17	3.1297E+08	2.6179E+08
Ce-141		7.9631E-06	2.7947E-13	1.1936E+12	1.4211E+09
Ce-143		7.3878E-06	1.1125E-14	4.6850E+10	1.3371E+09
Ce-144		6.3843E-06	2.0017E-12	8.3711E+12	1.1390E+09
Pr-143		3.0520E-06	4.5322E-14	1.9087E+11	5.4350E+08
Nd-147		1.2327E-06	1.5237E-14	6.2423E+10	2.2030E+08
Np-239		8.8234E-05	3.8033E-13	9.5833E+11	1.5874E+10
Pu-238		1.9842E-08	1.1590E-12	2.9326E+12	3.5397E+06
Pu-239		2.0015E-09	3.2201E-11	8.1138E+13	3.5702E+05

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Pu-240	3.5347E-09	1.5519E-12	3.8942E+12	6.3059E+05
Pu-241	7.8530E-07	7.9410E-12	1.9843E+13	1.4010E+08
Am-241	4.4441E-10	1.2972E-13	3.2416E+11	7.9266E+04
Cm-242	1.2200E-07	3.6855E-14	9.1712E+10	2.1766E+07
Cm-244	8.0698E-09	9.8591E-14	2.4333E+11	1.4396E+06

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump	
Noble gases (atoms)	1.7032E+18	0.0000E+00		
Elemental I (atoms)	1.3823E+13	0.0000E+00		
Organic I (atoms)	1.6628E+13	0.0000E+00		
Aerosols (kg)	6.6138E-09	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.7521E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.8401E-13	
Total I (Ci)			2.1815E-02	

Deposition Recirculating

Time (h) =	2.4000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	2.7846E+12	
Organic I (atoms)	0.0000E+00	1.7599E+12	
Aerosols (kg)	0.0000E+00	1.3538E-09	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7555E+18
Elemental I (atoms)	1.2020E+14	1.2606E+12
Organic I (atoms)	1.1613E+14	1.1759E+12
Aerosols (kg)	5.6582E-08	5.9524E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.2509E+17
Elemental I (atoms)	0.0000E+00	2.2500E+13
Organic I (atoms)	0.0000E+00	2.1724E+13
Aerosols (kg)	0.0000E+00	1.0592E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	3.7509E+17	0.0000E+00
Elemental I (atoms)	6.6673E+12	0.0000E+00
Organic I (atoms)	4.2137E+12	0.0000E+00
Aerosols (kg)	3.2414E-09	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9504E-01	2.2842E-01	2.0584E-01	
Accumulated dose (rem)	5.0564E-01	2.9465E+00	6.4080E-01	

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6450E-02	3.0978E-02	2.7916E-02	
Accumulated dose (rem)	6.8573E-02	3.9960E-01	8.6903E-02	

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.6077E-02	8.5339E-01	1.3090E-01	
Accumulated dose (rem)	9.0678E-02	2.0687E+00	2.3578E-01	

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m	2.1434E-01	1.0559E-11	7.6612E+13	9.8699E+13	
Kr-85m	1.1541E+00	1.4024E-10	9.9358E+14	3.9286E+14	
Kr-85	1.0833E-01	2.7638E-07	1.9581E+18	3.0323E+13	
Kr-87	4.8861E-01	1.7250E-11	1.1940E+14	2.9227E+14	
Kr-88	2.2130E+00	1.7649E-10	1.2078E+15	8.4940E+14	
Rb-86	3.7651E-06	4.6273E-14	3.2403E+11	2.7645E+09	
Rb-88	2.2987E+00	1.9042E-11	1.3031E+14	6.1784E+14	

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Sr-89	1.3545E-04	4.6624E-12	3.1548E+13	7.8171E+10
Sr-90	1.4523E-05	1.0647E-10	7.1242E+14	8.3738E+09
Sr-91	1.2498E-04	3.4477E-14	2.2816E+11	8.1195E+10
Sr-92	6.2282E-05	4.9551E-15	3.2435E+10	5.5460E+10
Y-90	5.6473E-07	1.0380E-15	6.9455E+09	1.8999E+08
Y-91	1.7756E-06	7.2401E-14	4.7913E+11	9.9994E+08
Y-92	3.7165E-05	3.8624E-15	2.5282E+10	1.2516E+10
Y-93	1.4426E-06	4.3240E-16	2.7999E+09	9.3049E+08
Zr-95	2.0052E-06	9.3339E-14	5.9169E+11	1.1570E+09
Zr-97	1.6446E-06	8.6028E-16	5.3410E+09	1.0136E+09
Nb-95	1.9812E-06	5.0666E-14	3.2118E+11	1.1423E+09
Mo-99	2.4314E-05	5.0694E-14	3.0837E+11	1.4258E+10
Tc-99m	2.2189E-05	4.2198E-15	2.5669E+10	1.2779E+10
Ru-103	2.1889E-05	6.7821E-13	3.9653E+12	1.2635E+10
Ru-105	8.3752E-06	1.2459E-15	7.1459E+09	6.2621E+09
Ru-106	9.1237E-06	2.7271E-12	1.5493E+13	5.2611E+09
Rh-105	1.4330E-05	1.6977E-14	9.7371E+10	8.3389E+09
Sb-127	2.4512E-05	9.1786E-14	4.3523E+11	1.4305E+10
Sb-129	4.1078E-05	7.3048E-15	3.4101E+10	3.0944E+10
Te-127	2.4881E-05	9.4280E-15	4.4706E+10	1.4323E+10
Te-127m	4.2724E-06	4.5294E-13	2.1478E+12	2.4633E+09
Te-129	5.1866E-05	2.4766E-15	1.1562E+10	3.4649E+10
Te-129m	1.4006E-05	4.6492E-13	2.1704E+12	8.0777E+09
Te-131m	4.8396E-05	6.0692E-14	2.7900E+11	2.8967E+10
Te-132	3.6758E-04	1.2108E-12	5.5238E+12	2.1499E+11
I-131	2.3740E-03	1.9149E-11	8.8028E+13	1.5348E+12
I-132	1.6852E-03	1.6326E-13	7.4484E+11	1.5992E+12
I-133	4.3672E-03	3.8552E-12	1.7456E+13	2.9851E+12
I-134	2.4222E-04	9.0796E-15	4.0805E+10	8.9476E+11
I-135	3.1001E-03	8.8276E-13	3.9378E+12	2.4297E+12
Xe-133	1.3047E+01	6.9702E-08	3.1561E+17	3.6741E+15
Xe-133m	3.9108E-01	8.8831E-10	4.0222E+15	1.1109E+14
Xe-135	4.9213E+00	1.9271E-09	8.5965E+15	1.4921E+15
Xe-135m	2.0367E-03	2.2373E-14	9.9802E+10	2.8097E+13
Xe-138	9.7128E-05	1.0123E-15	4.4173E+09	1.2581E+13
Cs-134	3.7879E-04	2.9277E-10	1.3157E+15	2.7731E+11
Cs-136	1.1458E-04	1.5633E-12	6.9224E+12	8.4232E+10
Cs-137	2.9412E-04	3.3814E-09	1.4864E+16	2.1531E+11
Ba-139	2.7455E-05	1.6785E-15	7.2720E+09	3.8804E+10
Ba-140	1.9790E-04	2.7032E-12	1.1628E+13	1.1452E+11
La-140	1.0944E-05	1.9690E-14	8.4699E+10	3.3985E+09
La-141	9.2582E-07	1.6371E-16	6.9919E+08	7.1687E+08
La-142	3.0448E-07	2.1270E-17	9.0204E+07	3.8823E+08
Ce-141	4.7071E-06	1.6520E-13	7.0557E+11	2.7168E+09
Ce-143	4.2273E-06	6.3656E-15	2.6807E+10	2.5216E+09
Ce-144	3.7773E-06	1.1843E-12	4.9528E+12	2.1783E+09
Pr-143	1.8143E-06	2.6943E-14	1.1347E+11	1.0413E+09
Nd-147	7.2639E-07	8.9790E-15	3.6784E+10	4.2059E+08
Np-239	5.1198E-05	2.2069E-13	5.5608E+11	3.0110E+10
Pu-238	1.1741E-08	6.8585E-13	1.7354E+12	6.7698E+06
Pu-239	1.1847E-09	1.9059E-11	4.8025E+13	6.8289E+05
Pu-240	2.0917E-09	9.1837E-13	2.3044E+12	1.2060E+06
Pu-241	4.6470E-07	4.6991E-12	1.1742E+13	2.6794E+08
Am-241	2.6312E-10	7.6804E-14	1.9192E+11	1.5163E+05
Cm-242	7.2172E-08	2.1803E-14	5.4256E+10	4.1624E+07
Cm-244	4.7753E-09	5.8341E-14	1.4399E+11	2.7533E+06

CR Transport Group Inventory:

Time (h) = 4.0000	Atmosphere	Sump
Noble gases (atoms)	2.2887E+18	0.0000E+00
Elemental I (atoms)	7.6705E+12	0.0000E+00
Organic I (atoms)	1.9273E+13	0.0000E+00
Aerosols (kg)	3.8600E-09	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.9669E-13
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.5816E-13
Total I (Ci)		1.1769E-02

	Deposition	Recirculating
Time (h) = 4.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.5438E+12
Organic I (atoms)	0.0000E+00	4.8104E+12
Aerosols (kg)	0.0000E+00	2.2137E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) = 4.0000	Filtered Transported

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Noble gases (atoms)	0.0000E+00	2.9390E+18
Elemental I (atoms)	1.2052E+14	1.2638E+12
Organic I (atoms)	1.8424E+14	1.8639E+12
Aerosols (kg)	5.7365E-08	6.0315E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4426E+17
Elemental I (atoms)	0.0000E+00	2.2559E+13
Organic I (atoms)	0.0000E+00	3.4464E+13
Aerosols (kg)	0.0000E+00	1.0738E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	1.1879E+18	0.0000E+00
Elemental I (atoms)	1.0879E+13	0.0000E+00
Organic I (atoms)	1.1518E+13	0.0000E+00
Aerosols (kg)	5.3003E-09	0.0000E+00

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8034E-01	5.4852E-01	3.0424E-01
Accumulated dose (rem)	7.8598E-01	3.4950E+00	9.4504E-01

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8018E-02	7.4389E-02	4.1260E-02
Accumulated dose (rem)	1.0659E-01	4.7398E-01	1.2816E-01

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0715E-01	1.0735E+00	2.2144E-01
Accumulated dose (rem)	1.9782E-01	3.1422E+00	4.5722E-01

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	6.4062E-02	3.1559E-12	2.2898E+13	1.6731E+14
Kr-85m	8.2479E-01	1.0022E-10	7.1007E+14	9.3320E+14
Kr-85	1.4376E-01	3.6676E-07	2.5985E+18	9.9295E+13
Kr-87	7.3274E-02	2.5869E-12	1.7906E+13	4.1295E+14
Kr-88	1.1063E+00	8.8226E-11	6.0376E+14	1.7295E+15
Rb-86	1.0912E-06	1.3411E-14	9.3911E+10	3.8759E+09
Rb-88	1.1948E+00	9.8977E-12	6.7733E+13	1.4270E+15
Sr-89	4.3162E-05	1.4857E-12	1.0053E+13	1.1947E+11
Sr-90	4.6384E-06	3.4004E-11	2.2753E+14	1.2807E+10
Sr-91	2.9813E-05	8.2242E-15	5.4426E+10	1.1519E+11
Sr-92	7.1507E-06	5.6890E-16	3.7239E+09	6.8514E+10
Y-90	3.6271E-07	6.6666E-16	4.4608E+09	4.3165E+08
Y-91	5.9320E-07	2.4189E-14	1.6008E+11	1.5524E+09
Y-92	1.1513E-05	1.1965E-15	7.8317E+09	2.4344E+10
Y-93	3.5014E-07	1.0495E-16	6.7958E+08	1.3255E+09
Zr-95	6.3927E-07	2.9757E-14	1.8863E+11	1.7686E+09
Zr-97	4.4577E-07	2.3319E-16	1.4477E+09	1.4837E+09
Nb-95	6.3277E-07	1.6182E-14	1.0258E+11	1.7469E+09
Mo-99	7.4459E-06	1.5525E-14	9.4437E+10	2.1554E+10
Tc-99m	6.9513E-06	1.3220E-15	8.0415E+09	1.9467E+10
Ru-103	6.9703E-06	2.1597E-13	1.2627E+12	1.9308E+10
Ru-105	1.4325E-06	2.1311E-16	1.2223E+09	8.2760E+09
Ru-106	2.9130E-06	8.7071E-13	4.9467E+12	8.0455E+09
Rh-105	4.3811E-06	5.1905E-15	2.9770E+10	1.2641E+10
Sb-127	7.5971E-06	2.8448E-14	1.3490E+11	2.1696E+10
Sb-129	6.9054E-06	1.2280E-15	5.7326E+09	4.0760E+10
Te-127	7.8795E-06	2.9857E-15	1.4158E+10	2.1867E+10
Te-127m	1.3646E-06	1.4466E-13	6.8597E+11	3.7673E+09
Te-129	1.0421E-05	4.9759E-16	2.3229E+09	4.7553E+10
Te-129m	4.4652E-06	1.4822E-13	6.9194E+11	1.2350E+10
Te-131m	1.4092E-05	1.7673E-14	8.1242E+10	4.3199E+10
Te-132	1.1331E-04	3.7323E-13	1.7027E+12	3.2558E+11
I-131	1.0348E-03	8.3471E-12	3.8372E+13	2.3519E+12
I-132	3.3835E-04	3.2779E-14	1.4955E+11	2.0183E+12

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I-133	1.6896E-03	1.4915E-12	6.7535E+12	4.4137E+12
I-134	4.5306E-06	1.6983E-16	7.6325E+08	9.2521E+11
I-135	9.0091E-04	2.5654E-13	1.1444E+12	3.3316E+12
Xe-133	1.6954E+01	9.0574E-08	4.1011E+17	1.1891E+16
Xe-133m	4.9319E-01	1.1202E-09	5.0724E+15	3.5359E+14
Xe-135	4.8626E+00	1.9041E-09	8.4939E+15	4.1915E+15
Xe-135m	2.5592E-04	2.8113E-15	1.2541E+10	2.8383E+13
Xe-138	1.0529E-09	1.0973E-20	4.7886E+04	1.2585E+13
Cs-134	1.1045E-04	8.5366E-11	3.8364E+14	3.8940E+11
Cs-136	3.3120E-05	4.5190E-13	2.0010E+12	1.1802E+11
Cs-137	8.5772E-05	9.8609E-10	4.3346E+15	3.0235E+11
Ba-139	1.1731E-06	7.1717E-17	3.1071E+08	4.3083E+10
Ba-140	6.2634E-05	8.5555E-13	3.6802E+12	1.7470E+11
La-140	7.3107E-06	1.3153E-14	5.6577E+10	8.1978E+09
La-141	1.4603E-07	2.5822E-17	1.1028E+08	9.3316E+08
La-142	1.6100E-08	1.1247E-18	4.7697E+06	4.3857E+08
Ce-141	1.4989E-06	5.2604E-14	2.2467E+11	4.1518E+09
Ce-143	1.2413E-06	1.8692E-15	7.8718E+09	3.7689E+09
Ce-144	1.2059E-06	3.7809E-13	1.5812E+12	3.3310E+09
Pr-143	5.8527E-07	8.6914E-15	3.6602E+10	1.5972E+09
Nd-147	2.2957E-07	2.8377E-15	1.1625E+10	6.4136E+08
Np-239	1.5569E-05	6.7110E-14	1.6910E+11	4.5430E+10
Pu-238	3.7501E-09	2.1905E-13	5.5427E+11	1.0354E+07
Pu-239	3.7857E-10	6.0906E-12	1.5347E+13	1.0446E+06
Pu-240	6.6805E-10	2.9331E-13	7.3598E+11	1.8444E+06
Pu-241	1.4841E-07	1.5008E-12	3.7501E+12	4.0977E+08
Am-241	8.4141E-11	2.4561E-14	6.1373E+10	2.3198E+05
Cm-242	2.3034E-08	6.9584E-15	1.7316E+10	6.3646E+07
Cm-244	1.5251E-09	1.8633E-14	4.5987E+10	4.2108E+06

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	3.0235E+18	0.0000E+00	
Elemental I (atoms)	1.8285E+12	0.0000E+00	
Organic I (atoms)	2.1151E+13	0.0000E+00	
Aerosols (kg)	1.1339E-09	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.2459E-13	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.4586E-13	
Total I (Ci)		3.9682E-03	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.2506E+12
Organic I (atoms)	0.0000E+00	1.3467E+13
Aerosols (kg)	0.0000E+00	3.1330E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.8818E+18
Elemental I (atoms)	1.2128E+14	1.2716E+12
Organic I (atoms)	3.4790E+14	3.5170E+12
Aerosols (kg)	5.9315E-08	6.2284E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0892E+18
Elemental I (atoms)	0.0000E+00	2.2702E+13
Organic I (atoms)	0.0000E+00	6.5077E+13
Aerosols (kg)	0.0000E+00	1.1103E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	3.9285E+18	0.0000E+00
Elemental I (atoms)	1.4966E+13	0.0000E+00
Organic I (atoms)	3.2245E+13	0.0000E+00
Aerosols (kg)	7.5014E-09	0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose(rem)		2.2523E-01	1.0206E+00	2.6455E-01

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Accumulated dose (rem) 1.0112E+00 4.5156E+00 1.2096E+00

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0518E-02	4.7814E-02	2.2360E-02
Accumulated dose (rem)	1.2711E-01	5.2180E-01	1.5052E-01

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8313E-02	6.4588E-01	1.2995E-01
Accumulated dose (rem)	2.6614E-01	3.7881E+00	5.8717E-01

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	1.6256E-03	8.0082E-14	5.8104E+11	1.8421E+14
Kr-85m	1.1966E-01	1.4541E-11	1.0302E+14	1.2930E+15
Kr-85	7.1911E-02	1.8346E-07	1.2998E+18	2.0095E+14
Kr-87	4.6811E-04	1.6526E-14	1.1439E+11	4.2739E+14
Kr-88	7.8535E-02	6.2631E-12	4.2861E+13	2.1136E+15
Rb-86	1.5026E-07	1.8467E-15	1.2932E+10	4.3127E+09
Rb-88	2.2959E-01	1.9019E-12	1.3016E+13	1.7928E+15
Sr-89	7.4001E-06	2.5472E-13	1.7235E+12	1.3789E+11
Sr-90	7.9888E-07	5.8566E-12	3.9188E+13	1.4789E+10
Sr-91	2.8643E-06	7.9016E-16	5.2291E+09	1.2572E+11
Sr-92	1.5915E-07	1.2662E-17	8.2884E+07	7.0230E+10
Y-90	1.2162E-07	2.2353E-16	1.4957E+09	6.3563E+08
Y-91	1.0771E-07	4.3921E-15	2.9066E+10	1.8111E+09
Y-92	7.2557E-07	7.5405E-17	4.9358E+08	2.8066E+10
Y-93	3.4827E-08	1.0439E-17	6.7596E+07	1.4505E+09
Zr-95	1.0971E-07	5.1067E-15	3.2372E+10	2.0414E+09
Zr-97	5.5302E-08	2.8928E-17	1.7960E+08	1.6543E+09
Nb-95	1.0898E-07	2.7871E-15	1.7668E+10	2.0173E+09
Mo-99	1.1791E-06	2.4584E-15	1.4955E+10	2.4645E+10
Tc-99m	1.1446E-06	2.1769E-16	1.3242E+09	2.2342E+10
Ru-103	1.1935E-06	3.6980E-14	2.1621E+11	2.2280E+10
Ru-105	7.0767E-08	1.0528E-17	6.0380E+07	8.6943E+09
Ru-106	5.0141E-07	1.4987E-13	8.5146E+11	9.2899E+09
Rh-105	6.6525E-07	7.8816E-16	4.5204E+09	1.4438E+10
Sb-127	1.2323E-06	4.6144E-15	2.1881E+10	2.4876E+10
Sb-129	3.2949E-07	5.8593E-17	2.7353E+08	4.2758E+10
Te-127	1.3284E-06	5.0336E-16	2.3869E+09	2.5174E+10
Te-127m	2.3501E-07	2.4915E-14	1.1814E+11	4.3503E+09
Te-129	1.0750E-06	5.1330E-17	2.3962E+08	5.0847E+10
Te-129m	7.6480E-07	2.5387E-14	1.1852E+11	1.4254E+10
Te-131m	2.0176E-06	2.5302E-15	1.1631E+10	4.8854E+10
Te-132	1.8180E-05	5.9882E-14	2.7320E+11	3.7283E+11
I-131	2.6952E-04	2.1740E-12	9.9940E+12	2.8650E+12
I-132	3.4957E-05	3.3866E-15	1.5450E+10	2.1287E+12
I-133	3.4675E-04	3.0609E-13	1.3860E+12	5.1802E+12
I-134	2.1733E-09	8.1467E-20	3.6612E+05	9.2578E+11
I-135	1.0432E-04	2.9704E-14	1.3251E+11	3.6676E+12
Xe-133	8.1263E+00	4.3414E-08	1.9658E+17	2.3657E+16
Xe-133m	2.2249E-01	5.0536E-10	2.2882E+15	6.8701E+14
Xe-135	1.3259E+00	5.1919E-10	2.3160E+15	6.8649E+15
Xe-135m	5.7123E-05	6.2750E-16	2.7992E+09	2.8475E+13
Cs-134	1.5393E-05	1.1898E-11	5.3469E+13	4.3379E+11
Cs-136	4.5367E-06	6.1900E-14	2.7410E+11	1.3125E+11
Cs-137	1.1958E-05	1.3747E-10	6.0429E+14	3.3682E+11
Ba-139	3.6161E-09	2.2107E-19	9.5778E+05	4.3276E+10
Ba-140	1.0594E-05	1.4471E-13	6.2246E+11	2.0129E+11
La-140	2.4351E-06	4.3810E-15	1.8845E+10	1.2307E+10
La-141	6.1345E-09	1.0847E-18	4.6329E+06	9.7403E+08
La-142	7.6004E-11	5.3094E-21	2.2517E+04	4.4141E+08
Ce-141	2.5645E-07	9.0005E-15	3.8441E+10	4.7908E+09
Ce-143	1.8073E-07	2.7215E-16	1.1461E+09	4.2698E+09
Ce-144	2.0753E-07	6.5068E-14	2.7212E+11	3.8461E+09
Pr-143	1.0234E-07	1.5197E-15	6.4001E+09	1.8486E+09
Nd-147	3.8716E-08	4.7857E-16	1.9606E+09	7.3873E+08
Np-239	2.4309E-06	1.0479E-14	2.6403E+10	5.1862E+10
Pu-238	6.4592E-10	3.7730E-14	9.5468E+10	1.1956E+07
Pu-239	6.5270E-11	1.0501E-12	2.6460E+12	1.2064E+06
Pu-240	1.1506E-10	5.0518E-14	1.2676E+11	2.1299E+06
Pu-241	2.5561E-08	2.5847E-13	6.4588E+11	4.7319E+08
Am-241	1.4528E-11	4.2409E-15	1.0597E+10	2.6796E+05
Cm-242	3.9616E-09	1.1968E-15	2.9782E+09	7.3483E+07

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Cm-244 2.6267E-10 3.2091E-15 7.9203E+09 4.8625E+06

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump	
Noble gases (atoms)	1.5011E+18	0.0000E+00	
Elemental I (atoms)	1.3056E+11	0.0000E+00	
Organic I (atoms)	8.2597E+12	0.0000E+00	
Aerosols (kg)	1.6010E-10	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.0631E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.4494E-14
Total I (Ci)			7.5554E-04

Deposition Recirculating

Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.7677E+12
Organic I (atoms)	0.0000E+00	2.3623E+13
Aerosols (kg)	0.0000E+00	3.5044E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.0531E+18
Elemental I (atoms)	1.2182E+14	1.2770E+12
Organic I (atoms)	4.6208E+14	4.6704E+12
Aerosols (kg)	6.0759E-08	6.3743E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4913E+18
Elemental I (atoms)	0.0000E+00	2.2802E+13
Organic I (atoms)	0.0000E+00	8.6436E+13
Aerosols (kg)	0.0000E+00	1.1373E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	8.0090E+18	0.0000E+00
Elemental I (atoms)	1.6204E+13	0.0000E+00
Organic I (atoms)	5.6562E+13	0.0000E+00
Aerosols (kg)	8.3908E-09	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0333E-01	9.4064E-01	1.3820E-01
Accumulated dose (rem)	1.1145E+00	5.4563E+00	1.3478E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4125E-03	4.4068E-02	1.1046E-02
Accumulated dose (rem)	1.3652E-01	5.6587E-01	1.6157E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9565E-02	2.9125E-01	3.7374E-02
Accumulated dose (rem)	2.8570E-01	4.0793E+00	6.2455E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	7.1149E-05	3.5050E-15	2.5431E+10	1.8472E+14
Kr-85m	2.9944E-02	3.6386E-12	2.5779E+13	1.3598E+15
Kr-85	6.2041E-02	1.5828E-07	1.1214E+18	2.7009E+14
Kr-87	5.1581E-06	1.8210E-16	1.2605E+09	4.2749E+14
Kr-88	9.6160E-03	7.6687E-13	5.2480E+12	2.1474E+15
Rb-86	9.5334E-08	1.1716E-15	8.2044E+09	4.4282E+09
Rb-88	2.8029E-02	2.3219E-13	1.5889E+12	1.8239E+15
Sr-89	5.3065E-06	1.8266E-13	1.2359E+12	1.4407E+11
Sr-90	5.7548E-07	4.2189E-12	2.8230E+13	1.5457E+10
Sr-91	1.1510E-06	3.1752E-16	2.1013E+09	1.2756E+11
Sr-92	1.4816E-08	1.1787E-18	7.7157E+06	7.0290E+10

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Y-90	1.2771E-07	2.3473E-16	1.5707E+09	7.5624E+08
Y-91	7.9711E-08	3.2504E-15	2.1510E+10	1.9024E+09
Y-92	1.4055E-07	1.4607E-17	9.5614E+07	2.8412E+10
Y-93	1.4489E-08	4.3428E-18	2.8122E+07	1.4732E+09
Zr-95	7.8746E-08	3.6655E-15	2.3236E+10	2.1330E+09
Zr-97	2.8694E-08	1.5010E-17	9.3188E+07	1.6941E+09
Nb-95	7.8506E-08	2.0077E-15	1.2727E+10	2.1085E+09
Mo-99	7.8095E-07	1.6283E-15	9.9048E+09	2.5594E+10
Tc-99m	7.8224E-07	1.4877E-16	9.0494E+08	2.3230E+10
Ru-103	8.5471E-07	2.6483E-14	1.5484E+11	2.3277E+10
Ru-105	1.4622E-08	2.1752E-18	1.2475E+07	8.7291E+09
Ru-106	3.6098E-07	1.0790E-13	6.1299E+11	9.7095E+09
Rh-105	4.1387E-07	4.9034E-16	2.8123E+09	1.4958E+10
Sb-127	8.3600E-07	3.1305E-15	1.4844E+10	2.5878E+10
Sb-129	6.5757E-08	1.1693E-17	5.4589E+07	4.2918E+10
Te-127	9.3282E-07	3.5346E-16	1.6761E+09	2.6235E+10
Te-127m	1.6927E-07	1.7945E-14	8.5091E+10	4.5470E+09
Te-129	5.6566E-07	2.7010E-17	1.2609E+08	5.1436E+10
Te-129m	5.4737E-07	1.8170E-14	8.4822E+10	1.4892E+10
Te-131m	1.2081E-06	1.5151E-15	6.9648E+09	5.0402E+10
Te-132	1.2200E-05	4.0185E-14	1.8333E+11	3.8755E+11
I-131	2.1973E-04	1.7724E-12	8.1478E+12	3.1133E+12
I-132	2.3891E-05	2.3145E-15	1.0559E+10	2.1568E+12
I-133	2.2277E-04	1.9665E-13	8.9043E+11	5.4655E+12
I-135	3.7814E-05	1.0767E-14	4.8032E+10	3.7342E+12
Xe-133	6.7174E+00	3.5887E-08	1.6249E+17	3.1308E+16
Xe-133m	1.7309E-01	3.9316E-10	1.7802E+15	8.9045E+14
Xe-135	6.2249E-01	2.4376E-10	1.0874E+15	7.8262E+15
Xe-135m	2.1292E-05	2.3390E-16	1.0434E+09	2.8518E+13
Cs-134	9.8851E-06	7.6402E-12	3.4336E+13	4.4569E+11
Cs-136	2.8632E-06	3.9067E-14	1.7299E+11	1.3473E+11
Cs-137	7.6809E-06	8.8305E-11	3.8816E+14	3.4606E+11
Ba-139	4.6621E-11	2.8502E-21	1.2349E+04	4.3277E+10
Ba-140	7.4944E-06	1.0237E-13	4.4035E+11	2.1009E+11
La-140	2.4973E-06	4.4929E-15	1.9326E+10	1.4690E+10
La-141	1.0778E-09	1.9059E-19	8.1401E+05	9.7687E+08
Ce-141	1.8346E-07	6.4387E-15	2.7500E+10	5.0047E+09
Ce-143	1.1005E-07	1.6572E-16	6.9791E+08	4.4095E+09
Ce-144	1.4938E-07	4.6835E-14	1.9587E+11	4.0198E+09
Pr-143	7.4473E-08	1.1060E-15	4.6575E+09	1.9346E+09
Nd-147	2.7309E-08	3.3757E-16	1.3829E+09	7.7082E+08
Np-239	1.5875E-06	6.8431E-15	1.7243E+10	5.3804E+10
Pu-238	4.6532E-10	2.7181E-14	6.8775E+10	1.2497E+07
Pu-239	4.7063E-11	7.5717E-13	1.9079E+12	1.2610E+06
Pu-240	8.2888E-11	3.6392E-14	9.1316E+10	2.2262E+06
Pu-241	1.8413E-08	1.8619E-13	4.6525E+11	4.9458E+08
Am-241	1.0493E-11	3.0628E-15	7.6533E+09	2.8013E+05
Cm-242	2.8498E-09	8.6091E-16	2.1424E+09	7.6797E+07
Cm-244	1.8921E-10	2.3117E-15	5.7054E+09	5.0824E+06

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	1.2868E+18	0.0000E+00
Elemental I (atoms)	3.8225E+10	0.0000E+00
Organic I (atoms)	7.1201E+12	0.0000E+00
Aerosols (kg)	1.0245E-10	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.3918E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.6258E-14
Total I (Ci)		5.0421E-04

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.8226E+12
Organic I (atoms)	0.0000E+00	2.9997E+13
Aerosols (kg)	0.0000E+00	3.6048E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0198E+19
Elemental I (atoms)	1.2231E+14	1.2820E+12
Organic I (atoms)	5.6840E+14	5.7443E+12
Aerosols (kg)	6.2193E-08	6.5192E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 24.0000		
Noble gases (atoms)	0.0000E+00	1.8885E+18
Elemental I (atoms)	0.0000E+00	2.2895E+13
Organic I (atoms)	0.0000E+00	1.0632E+14
Aerosols (kg)	0.0000E+00	1.1642E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 24.0000		
Noble gases (atoms)	1.0756E+19	0.0000E+00
Elemental I (atoms)	1.6336E+13	0.0000E+00
Organic I (atoms)	7.1822E+13	0.0000E+00
Aerosols (kg)	8.6312E-09	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	1.8039E-01	3.2420E+00	3.0176E-01
Accumulated dose (rem)	1.2949E+00	8.6983E+00	1.6495E+00

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	6.9312E-03	8.1862E-02	9.9961E-03
Accumulated dose (rem)	1.4345E-01	6.4773E-01	1.7156E-01

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	1.4170E-02	4.1617E-01	3.0164E-02
Accumulated dose (rem)	2.9987E-01	4.4955E+00	6.5471E-01

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	1.3955E-07	1.6958E-17	1.2014E+08	1.3740E+15
Kr-85	1.9901E-02	5.0771E-08	3.5971E+17	4.8275E+14
Kr-88	7.2055E-11	5.7464E-21	3.9324E+04	2.1507E+15
Rb-86	2.7101E-08	3.3307E-16	2.3323E+09	4.7265E+09
Rb-88	2.0989E-10	1.7387E-21	1.1899E+04	1.8272E+15
Sr-89	1.6355E-06	5.6296E-14	3.8092E+11	1.6139E+11
Sr-90	1.8479E-07	1.3547E-12	9.0646E+12	1.7372E+10
Sr-91	1.9334E-09	5.3335E-19	3.5296E+06	1.2844E+11
Y-90	1.1941E-07	2.1948E-16	1.4686E+09	1.6015E+09
Y-91	2.5718E-08	1.0487E-15	6.9398E+09	2.1713E+09
Y-93	3.3251E-11	9.9665E-21	6.4537E+04	1.4849E+09
Zr-95	2.4481E-08	1.1396E-15	7.2239E+09	2.3911E+09
Zr-97	4.8087E-10	2.5154E-19	1.5617E+06	1.7283E+09
Nb-95	2.5181E-08	6.4395E-16	4.0821E+09	2.3694E+09
Mo-99	1.1775E-07	2.4550E-16	1.4934E+09	2.7463E+10
Tc-99m	1.2072E-07	2.2958E-17	1.3965E+08	2.5040E+10
Ru-103	2.6035E-07	8.0668E-15	4.7165E+10	2.6051E+10
Ru-106	1.1528E-07	3.4457E-14	1.9576E+11	1.0907E+10
Rh-105	3.2573E-08	3.8591E-17	2.2133E+08	1.5736E+10
Sb-127	1.5645E-07	5.8582E-16	2.7779E+09	2.8065E+10
Te-127	2.0307E-07	7.6946E-17	3.6486E+08	2.8766E+10
Te-127m	5.4040E-08	5.7291E-15	2.7166E+10	5.1089E+09
Te-129	1.4291E-07	6.8239E-18	3.1856E+07	5.2620E+10
Te-129m	1.6527E-07	5.4860E-15	2.5611E+10	1.6662E+10
Te-131m	7.3513E-08	9.2191E-17	4.2381E+08	5.2480E+10
Te-132	2.0697E-06	6.8175E-15	3.1103E+10	4.1819E+11
I-131	5.5234E-05	4.4552E-13	2.0481E+12	3.7704E+12
I-132	4.0510E-06	3.9246E-16	1.7905E+09	2.2146E+12
I-133	6.5740E-06	5.8033E-15	2.6277E+10	5.7753E+12
I-135	6.4663E-09	1.8413E-18	8.2136E+06	3.7562E+12
Xe-133	1.4619E+00	7.8098E-09	3.5362E+16	5.0727E+16
Xe-133m	2.1870E-02	4.9675E-11	2.2492E+14	1.2933E+15
Xe-135	8.2647E-04	3.2363E-13	1.4437E+12	8.3301E+15
Xe-135m	3.6486E-09	4.0081E-20	1.7879E+05	2.8530E+13
Cs-134	3.1327E-06	2.4212E-12	1.0881E+13	4.7822E+11
Cs-136	7.7635E-07	1.0593E-14	4.6905E+10	1.4350E+11
Cs-137	2.4404E-06	2.8057E-11	1.2333E+14	3.7137E+11
Ba-140	2.0444E-06	2.7926E-14	1.2013E+11	2.3321E+11
La-140	1.7973E-06	3.2336E-15	1.3910E+10	2.8989E+10
Ce-141	5.5271E-08	1.9398E-15	8.2849E+09	5.5972E+09
Ce-143	7.7901E-09	1.1731E-17	4.9401E+07	4.6086E+09

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Ce-144	4.7626E-08	1.4932E-14	6.2447E+10	4.5151E+09
Pr-143	2.3062E-08	3.4248E-16	1.4423E+09	2.1812E+09
Nd-147	7.2575E-09	8.9711E-17	3.6752E+08	8.5409E+08
Np-239	2.1085E-07	9.0887E-16	2.2901E+09	5.7418E+10
Pu-238	1.4949E-10	8.7323E-15	2.2095E+10	1.4045E+07
Pu-239	1.5195E-11	2.4446E-13	6.1598E+11	1.4180E+06
Pu-240	2.6621E-11	1.1688E-14	2.9328E+10	2.5020E+06
Pu-241	5.9113E-09	5.9775E-14	1.4937E+11	5.5583E+08
Am-241	3.4475E-12	1.0063E-15	2.5146E+09	3.1541E+05
Cm-242	9.0366E-10	2.7299E-16	6.7933E+08	8.6222E+07
Cm-244	6.0749E-11	7.4219E-16	1.8318E+09	5.7118E+06

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump	
Noble gases (atoms)	3.9529E+17	0.0000E+00	
Elemental I (atoms)	7.6389E+09	0.0000E+00	
Organic I (atoms)	1.6351E+12	0.0000E+00	
Aerosols (kg)	3.2435E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.2232E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.2960E-15	
Total I (Ci)		6.5865E-05	

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.8999E+12
Organic I (atoms)	0.0000E+00	4.6225E+13
Aerosols (kg)	0.0000E+00	3.8743E-09

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6446E+19
Elemental I (atoms)	1.2351E+14	1.2940E+12
Organic I (atoms)	8.2405E+14	8.3266E+12
Aerosols (kg)	6.6479E-08	6.9520E-10

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0456E+18
Elemental I (atoms)	0.0000E+00	2.3118E+13
Organic I (atoms)	0.0000E+00	1.5414E+14
Aerosols (kg)	0.0000E+00	1.2443E-08

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	1.9033E+19	0.0000E+00
Elemental I (atoms)	1.6521E+13	0.0000E+00
Organic I (atoms)	1.1068E+14	0.0000E+00
Aerosols (kg)	9.2764E-09	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8760E-01	8.4244E+00	7.0535E-01
Accumulated dose (rem)	1.5825E+00	1.7123E+01	2.3549E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2109E-03	6.1806E-02	6.2758E-03
Accumulated dose (rem)	1.4666E-01	7.0954E-01	1.7784E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7886E-03	5.1171E-01	3.5143E-02
Accumulated dose (rem)	3.0966E-01	5.0072E+00	6.8985E-01

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	1.2332E-02	3.1462E-08	2.2291E+17	1.6337E+15

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Rb-86	6.4227E-09	7.8935E-17	5.5274E+08	5.7515E+09
Sr-89	7.1260E-07	2.4528E-14	1.6597E+11	2.4161E+11
Sr-90	1.1485E-07	8.4193E-13	5.6336E+12	2.8067E+10
Y-90	1.1545E-07	2.1220E-16	1.4199E+09	1.1683E+10
Y-91	1.1769E-08	4.7989E-16	3.1758E+09	3.4612E+09
Zr-95	1.1500E-08	5.3529E-16	3.3932E+09	3.6336E+09
Nb-95	1.4602E-08	3.7342E-16	2.3671E+09	3.7899E+09
Mo-99	1.0448E-10	2.1784E-19	1.3251E+06	2.8590E+10
Tc-99m	1.0712E-10	2.0371E-20	1.2392E+05	2.6137E+10
Ru-103	1.0244E-07	3.1741E-15	1.8558E+10	3.8251E+10
Ru-106	6.8339E-08	2.0427E-14	1.1605E+11	1.7430E+10
Sb-127	9.0283E-10	3.3807E-18	1.6031E+07	3.0118E+10
Te-127	3.0501E-08	1.1557E-17	5.4803E+07	3.3532E+10
Te-127m	2.9054E-08	3.0802E-15	1.4606E+10	8.0449E+09
Te-129	5.2035E-08	2.4847E-18	1.1599E+07	5.7494E+10
Te-129m	6.0176E-08	1.9975E-15	9.3251E+09	2.4147E+10
Te-132	5.1052E-09	1.6816E-17	7.6718E+07	4.4145E+11
I-131	3.6568E-06	2.9496E-14	1.3560E+11	5.0976E+12
I-132	9.9921E-09	9.6802E-19	4.4163E+06	2.2593E+12
Xe-133	2.9621E-02	1.5825E-10	7.1653E+14	7.6134E+16
Xe-133m	4.2100E-06	9.5627E-15	4.3299E+10	1.4653E+15
Cs-134	1.9041E-06	1.4717E-12	6.6140E+12	6.5761E+11
Cs-136	1.2211E-07	1.6662E-15	7.3778E+09	1.6856E+11
Cs-137	1.5168E-06	1.7438E-11	7.6653E+13	5.1263E+11
Ba-140	3.0932E-07	4.2251E-15	1.8175E+10	2.9824E+11
La-140	3.5931E-07	6.4643E-16	2.7806E+09	1.0054E+11
Ce-141	1.9763E-08	6.9361E-16	2.9624E+09	8.0806E+09
Ce-144	2.7828E-08	8.7250E-15	3.6488E+10	7.1915E+09
Pr-143	3.9459E-09	5.8597E-17	2.4677E+08	2.9631E+09
Nd-147	8.7527E-10	1.0819E-17	4.4323E+07	1.0668E+09
Np-239	6.2327E-11	2.6866E-19	6.7695E+05	5.9158E+10
Pu-238	9.3315E-11	5.4507E-15	1.3792E+10	2.2716E+07
Pu-239	9.4948E-12	1.5276E-13	3.8490E+11	2.3011E+06
Pu-240	1.6574E-11	7.2771E-15	1.8260E+10	4.0442E+06
Pu-241	3.6680E-09	3.7091E-14	9.2683E+10	8.9772E+08
Am-241	2.5646E-12	7.4862E-16	1.8707E+09	5.3383E+05
Cm-242	5.0369E-10	1.5216E-16	3.7865E+08	1.3588E+08
Cm-244	3.7715E-11	4.6078E-16	1.1372E+09	9.2262E+06

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	2.2362E+17	0.0000E+00	
Elemental I (atoms)	4.9892E+08	0.0000E+00	
Organic I (atoms)	1.0679E+11	0.0000E+00	
Aerosols (kg)	2.0033E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.3895E-16
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.3898E-16
Total I (Ci)			3.6668E-06

Deposition Recirculating

Time (h) = 720.0000	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	7.0436E+12	
Organic I (atoms)	0.0000E+00	7.6990E+13	
Aerosols (kg)	0.0000E+00	5.3528E-09	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway		
Time (h) = 720.0000	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	5.0530E+19	
Elemental I (atoms)	1.2597E+14	1.3189E+12	
Organic I (atoms)	1.3514E+15	1.3654E+13	
Aerosols (kg)	9.1870E-08	9.5168E-10	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) = 720.0000	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	9.3573E+18	
Elemental I (atoms)	0.0000E+00	2.3579E+13	
Organic I (atoms)	0.0000E+00	2.5279E+14	
Aerosols (kg)	0.0000E+00	1.7193E-08	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) = 720.0000	Filtered	Transported	

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Noble gases (atoms)	5.9573E+19	0.0000E+00
Elemental I (atoms)	1.6865E+13	0.0000E+00
Organic I (atoms)	1.8434E+14	0.0000E+00
Aerosols (kg)	1.2816E-08	0.0000E+00

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 I-131 Summary
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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4388E-02
0.017	1.8470E+05	0.0000E+00	3.1068E+01
0.083	9.2044E+05	0.0000E+00	7.7245E+02
0.333	3.6817E+06	0.0000E+00	1.0817E+03
0.500	6.8012E+05	0.0000E+00	1.2134E+03
0.750	9.4093E+05	0.0000E+00	1.3319E+03
1.000	9.4889E+05	0.0000E+00	1.4581E+03
1.400	9.5870E+05	0.0000E+00	1.6615E+03
1.700	9.6603E+05	0.0000E+00	1.8153E+03
2.000	9.7334E+05	0.0000E+00	1.9702E+03
2.250	5.9162E+04	4.0983E+04	2.0111E+03
2.400	6.0403E+04	3.7668E+04	2.0177E+03
2.700	6.0349E+04	3.7597E+04	2.0307E+03
3.000	6.0272E+04	3.7549E+04	2.0438E+03
3.300	6.0196E+04	3.7501E+04	2.0568E+03
3.600	6.0119E+04	3.7454E+04	2.0699E+03
3.900	6.0043E+04	3.7406E+04	2.0831E+03
4.000	6.0017E+04	3.7390E+04	2.0874E+03
4.300	5.9941E+04	3.7343E+04	2.1006E+03
4.600	5.9865E+04	3.7295E+04	2.1137E+03
4.900	5.9789E+04	3.7248E+04	2.1268E+03
5.200	5.9713E+04	3.7200E+04	2.1400E+03
5.500	5.9637E+04	3.7153E+04	2.1532E+03
5.800	5.9561E+04	3.7106E+04	2.1664E+03
6.100	5.9485E+04	3.7058E+04	2.1796E+03
6.400	5.9409E+04	3.7011E+04	2.1928E+03
6.700	5.9334E+04	3.6964E+04	2.2060E+03
7.000	5.9258E+04	3.6917E+04	2.2192E+03
7.300	5.9183E+04	3.6870E+04	2.2324E+03
7.600	5.9107E+04	3.6823E+04	2.2457E+03
7.900	5.9032E+04	3.6776E+04	2.2589E+03
8.000	5.9007E+04	3.6761E+04	2.2633E+03
8.300	5.8932E+04	3.6714E+04	2.2766E+03
8.600	5.8857E+04	3.6667E+04	2.2898E+03
8.900	5.8782E+04	3.6621E+04	2.3030E+03
9.200	5.8707E+04	3.6574E+04	2.3163E+03
9.500	5.8632E+04	3.6527E+04	2.3295E+03
9.800	5.8558E+04	3.6481E+04	2.3428E+03
10.100	5.8483E+04	3.6434E+04	2.3560E+03
10.400	5.8409E+04	3.6388E+04	2.3693E+03
16.000	5.7035E+04	3.5532E+04	2.6152E+03
24.000	5.5126E+04	3.4343E+04	2.9565E+03
96.000	4.1555E+04	2.5888E+04	3.7392E+03
720.000	3.5475E+03	2.2101E+03	1.5901E+03

	Environment	CR	MSIV Failed Inboard V
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	2.3498E-05	1.6302E-08	2.2613E-04
0.017	2.1230E-02	1.4715E-05	2.0418E-01
0.083	5.2788E-01	1.0613E-04	5.0649E+00
0.333	8.4477E+00	1.4939E-03	8.0334E+01
0.500	1.1857E+01	2.0064E-03	1.1108E+02
0.750	1.5005E+01	2.3846E-03	1.3718E+02
1.000	1.8409E+01	2.7741E-03	1.6444E+02
1.400	2.4026E+01	3.3581E-03	2.0699E+02
1.700	2.8375E+01	3.7675E-03	2.3807E+02
2.000	3.2840E+01	4.1549E-03	2.6844E+02
2.250	3.3824E+01	3.9092E-03	2.6808E+02
2.400	3.4108E+01	3.7367E-03	2.6499E+02
2.700	3.4671E+01	3.4181E-03	2.5896E+02
3.000	3.5234E+01	3.1322E-03	2.5311E+02
3.300	3.5797E+01	2.8755E-03	2.4744E+02
3.600	3.6358E+01	2.6450E-03	2.4195E+02
3.900	3.6919E+01	2.4381E-03	2.3663E+02
4.000	3.7106E+01	2.3740E-03	2.3490E+02

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4.300	3.7666E+01	2.1948E-03	2.2980E+02
4.600	3.8225E+01	2.0338E-03	2.2486E+02
4.900	3.8784E+01	1.8894E-03	2.2007E+02
5.200	3.9341E+01	1.7596E-03	2.1543E+02
5.500	3.9898E+01	1.6431E-03	2.1094E+02
5.800	4.0455E+01	1.5384E-03	2.0659E+02
6.100	4.1011E+01	1.4444E-03	2.0237E+02
6.400	4.1565E+01	1.3600E-03	1.9828E+02
6.700	4.2120E+01	1.2841E-03	1.9432E+02
7.000	4.2673E+01	1.2160E-03	1.9048E+02
7.300	4.3226E+01	1.1547E-03	1.8676E+02
7.600	4.3778E+01	1.0997E-03	1.8315E+02
7.900	4.4330E+01	1.0502E-03	1.7965E+02
8.000	4.4513E+01	1.0348E-03	1.7851E+02
8.300	4.5064E+01	9.5223E-04	1.7516E+02
8.600	4.5614E+01	8.7808E-04	1.7191E+02
8.900	4.6163E+01	8.1151E-04	1.6877E+02
9.200	4.6711E+01	7.5173E-04	1.6571E+02
9.500	4.7259E+01	6.9806E-04	1.6276E+02
9.800	4.7806E+01	6.4986E-04	1.5989E+02
10.100	4.8352E+01	6.0658E-04	1.5711E+02
10.400	4.8898E+01	5.6771E-04	1.5442E+02
16.000	5.8947E+01	2.6952E-04	1.1678E+02
24.000	7.2884E+01	2.1973E-04	8.9249E+01
96.000	1.2662E+02	5.5234E-05	5.3722E+01
720.000	2.7643E+02	3.6568E-06	4.5572E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volum I-131 (Curies)
0.000	4.3473E-09	2.2612E-04	5.1186E-09
0.017	1.1791E-04	2.0416E-01	1.3883E-04
0.083	1.4542E-02	5.0623E+00	1.7126E-02
0.333	9.1136E-01	8.0171E+01	1.0739E+00
0.500	2.5825E+00	1.1062E+02	3.0447E+00
0.750	5.5533E+00	1.3616E+02	6.5531E+00
1.000	9.0386E+00	1.6277E+02	1.0675E+01
1.400	1.5597E+01	2.0407E+02	1.8443E+01
1.700	2.1223E+01	2.3405E+02	2.5117E+01
2.000	2.7388E+01	2.6320E+02	3.2436E+01
2.250	3.2607E+01	2.6177E+02	3.8642E+01
2.400	3.5545E+01	2.5808E+02	4.2141E+01
2.700	4.0980E+01	2.5088E+02	4.8625E+01
3.000	4.5864E+01	2.4394E+02	5.4463E+01
3.300	5.0239E+01	2.3726E+02	5.9705E+01
3.600	5.4146E+01	2.3082E+02	6.4395E+01
3.900	5.7623E+01	2.2461E+02	6.8576E+01
4.000	5.8692E+01	2.2260E+02	6.9863E+01
4.300	6.1648E+01	2.1669E+02	7.3425E+01
4.600	6.4250E+01	2.1101E+02	7.6564E+01
4.900	6.6527E+01	2.0553E+02	7.9315E+01
5.200	6.8507E+01	2.0025E+02	8.1707E+01
5.500	7.0213E+01	1.9516E+02	8.3769E+01
5.800	7.1670E+01	1.9026E+02	8.5529E+01
6.100	7.2897E+01	1.8553E+02	8.7011E+01
6.400	7.3916E+01	1.8098E+02	8.8238E+01
6.700	7.4743E+01	1.7659E+02	8.9232E+01
7.000	7.5397E+01	1.7237E+02	9.0012E+01
7.300	7.5892E+01	1.6829E+02	9.0597E+01
7.600	7.6243E+01	1.6437E+02	9.1005E+01
7.900	7.6463E+01	1.6059E+02	9.1251E+01
8.000	7.6509E+01	1.5936E+02	9.1300E+01
8.300	7.6574E+01	1.5576E+02	9.1353E+01
8.600	7.6535E+01	1.5228E+02	9.1277E+01
8.900	7.6402E+01	1.4894E+02	9.1085E+01
9.200	7.6186E+01	1.4572E+02	9.0788E+01
9.500	7.5894E+01	1.4261E+02	9.0396E+01
9.800	7.5534E+01	1.3961E+02	8.9920E+01
10.100	7.5115E+01	1.3672E+02	8.9368E+01
10.400	7.4642E+01	1.3394E+02	8.8749E+01
16.000	6.1586E+01	9.6912E+01	7.1892E+01
24.000	4.5455E+01	7.2786E+01	5.1495E+01
96.000	2.4096E+01	4.5412E+01	2.7244E+01
720.000	2.0339E+00	3.8665E+00	2.3107E+00

Cumulative Dose Summary
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Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.6716E-03	8.9046E-05	2.2670E-04	1.2076E-05	1.6332E-05	6.9592E-07
0.083	4.1542E-02	2.1950E-03	5.6337E-03	2.9768E-04	6.2163E-04	2.7314E-05
0.333	6.6332E-01	3.4204E-02	8.9957E-02	4.6386E-03	3.0484E-02	1.3473E-03
0.500	9.3043E-01	4.9879E-02	1.2618E-01	6.7645E-03	8.5417E-02	3.7945E-03
0.750	1.1848E+00	7.6161E-02	1.6068E-01	1.0329E-02	1.8339E-01	8.4936E-03
1.000	1.4605E+00	1.1625E-01	1.9807E-01	1.5765E-02	2.9955E-01	1.5043E-02
1.400	1.9135E+00	2.0244E-01	2.5950E-01	2.7454E-02	5.2144E-01	3.0800E-02
1.700	2.2623E+00	2.8130E-01	3.0681E-01	3.8148E-02	7.1484E-01	4.8013E-02
2.000	2.6189E+00	3.7041E-01	3.5516E-01	5.0234E-02	9.2972E-01	7.0433E-02
2.250	2.6963E+00	4.1252E-01	3.6566E-01	5.5945E-02	1.1121E+00	9.1872E-02
2.400	2.7181E+00	4.3495E-01	3.6862E-01	5.8987E-02	1.2154E+00	1.0488E-01
2.700	2.7614E+00	4.7844E-01	3.7448E-01	6.4885E-02	1.4079E+00	1.3076E-01
3.000	2.8044E+00	5.1974E-01	3.8032E-01	7.0485E-02	1.5836E+00	1.5625E-01
3.300	2.8473E+00	5.5869E-01	3.8614E-01	7.5768E-02	1.7442E+00	1.8109E-01
3.600	2.8899E+00	5.9534E-01	3.9192E-01	8.0738E-02	1.8913E+00	2.0512E-01
3.900	2.9324E+00	6.2978E-01	3.9768E-01	8.5409E-02	2.0262E+00	2.2827E-01
4.000	2.9465E+00	6.4080E-01	3.9960E-01	8.6903E-02	2.0687E+00	2.3578E-01
4.300	2.9887E+00	6.7252E-01	4.0532E-01	9.1204E-02	2.1895E+00	2.5770E-01
4.600	3.0308E+00	7.0236E-01	4.1102E-01	9.5251E-02	2.3008E+00	2.7868E-01
4.900	3.0726E+00	7.3046E-01	4.1670E-01	9.9062E-02	2.4038E+00	2.9873E-01
5.200	3.1143E+00	7.5695E-01	4.2235E-01	1.0266E-01	2.4992E+00	3.1786E-01
5.500	3.1558E+00	7.8195E-01	4.2797E-01	1.0605E-01	2.5879E+00	3.3609E-01
5.800	3.1971E+00	8.0557E-01	4.3358E-01	1.0925E-01	2.6706E+00	3.5345E-01
6.100	3.2382E+00	8.2791E-01	4.3916E-01	1.1228E-01	2.7478E+00	3.6997E-01
6.400	3.2792E+00	8.4906E-01	4.4472E-01	1.1515E-01	2.8201E+00	3.8568E-01
6.700	3.3200E+00	8.6910E-01	4.5025E-01	1.1786E-01	2.8881E+00	4.0061E-01
7.000	3.3607E+00	8.8813E-01	4.5576E-01	1.2044E-01	2.9522E+00	4.1481E-01
7.300	3.4012E+00	9.0620E-01	4.6126E-01	1.2290E-01	3.0127E+00	4.2830E-01
7.600	3.4415E+00	9.2339E-01	4.6672E-01	1.2523E-01	3.0701E+00	4.4111E-01
7.900	3.4817E+00	9.3975E-01	4.7217E-01	1.2745E-01	3.1246E+00	4.5329E-01
8.000	3.4950E+00	9.4504E-01	4.7398E-01	1.2816E-01	3.1422E+00	4.5722E-01
8.300	3.5350E+00	9.6039E-01	4.7586E-01	1.2949E-01	3.1924E+00	4.6841E-01
8.600	3.5748E+00	9.7504E-01	4.7772E-01	1.3075E-01	3.2385E+00	4.7864E-01
8.900	3.6145E+00	9.8904E-01	4.7958E-01	1.3196E-01	3.2809E+00	4.8796E-01
9.200	3.6540E+00	1.0024E+00	4.8143E-01	1.3311E-01	3.3201E+00	4.9643E-01
9.500	3.6934E+00	1.0153E+00	4.8328E-01	1.3421E-01	3.3563E+00	5.0416E-01
9.800	3.7326E+00	1.0275E+00	4.8512E-01	1.3526E-01	3.3898E+00	5.1121E-01
10.100	3.7717E+00	1.0393E+00	4.8695E-01	1.3627E-01	3.4210E+00	5.1765E-01
10.400	3.8107E+00	1.0507E+00	4.8877E-01	1.3723E-01	3.4501E+00	5.2355E-01
16.000	4.5156E+00	1.2096E+00	5.2180E-01	1.5052E-01	3.7881E+00	5.8717E-01
24.000	5.4563E+00	1.3478E+00	5.6587E-01	1.6157E-01	4.0793E+00	6.2455E-01
96.000	8.6983E+00	1.6495E+00	6.4773E-01	1.7156E-01	4.4955E+00	6.5471E-01
720.000	1.7123E+01	2.3549E+00	7.0954E-01	1.7784E-01	5.0072E+00	6.8985E-01

Worst Two-Hour Doses
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EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.8	3.3485E-01	1.5357E+00	4.0803E-01

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Attachment 13.7 - RADTRAD Output File "NMP2MS03.o0"

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#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:12:09
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2MS03.psf
Inventory file  = c:\radtrad3.03\nmp2\nmp2.nif
Release file   = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Wetwell System Bypass Pathway 6 Only Without Delay Times, Wetwell Bypass Leakage Reduction after
24 hrs, CAVEX Core Inventory, and Modified Offsite X/Q Values
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
0
0
0
Compartment 5:
CR
1
3.8100E+05
```

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```

0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
0
Compartment 9:
Intact Outboard Volume 4
3
4.8703E+02
0
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment (Released to Dummy)
1
3
2
Pathway 6:
WW Bypass Pathway 6 to Environment
2
4
2
Pathway 7:
DW to MSIV Failed Inboard Volume 1
1
6
2

```

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Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Released to Dummy)

7
3
2

Pathway 10:

DW to Intact Inboard Volume 3

1
8
2

Pathway 11:

Intact Inboard Volume 3 to Intact Outboard Volume 4

8
9
2

Pathway 12:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:

Intact Outboard Volume 4 to Environment (Released to Dummy)

9
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+001
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

9
Compartment 1:0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01

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2.2500E+00 1.9800E+01
 2.4000E+00 0.0000E+00
 7.2000E+02 0.0000E+00

1
 0.0000E+00

0
 0
 0
 0
 0

Compartment 2:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 3:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 4:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 5:

1
 1
 0
 0
 0
 0
 1

6.7500E+02
 3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01
 7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0
 0

Compartment 6:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 7:

0
 1
 0
 0
 0
 0
 0
 0
 0
 0

Compartment 8:

0
 1

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0
0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

0

0

0

0

Pathway 4:

0
0
0
0
0
1

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```

4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
2.4000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
9.6000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 8:
0
0
0
0
0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
9.6000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00

```


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0
Pathway 13:
0
0
0
0
0
1
7
0.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
4.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 14:
0
0
0
0
0
1
3
0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 15:
0
0
0
0
0
1
5
0.0000E+00 1.6670E+00 9.9600E+01 5.0000E+01 0.0000E+00
8.0000E+00 1.6670E+00 9.9600E+01 5.0000E+01 0.0000E+00
2.4000E+01 8.3300E-01 9.9600E+01 5.0000E+01 0.0000E+00
9.6000E+01 8.3300E-01 9.9600E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Dose Locations:

3

Location 1:

EAB

4

1

2

0.0000E+00 3.1300E-04
7.2000E+02 0.0000E+00

1

2

0.0000E+00 3.5000E-04
7.2000E+02 0.0000E+00

0

Location 2:

LPZ

4

1

5

0.0000E+00 4.2600E-05

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```

8.0000E+00  2.8700E-05
2.4000E+01  1.2100E-05
9.6000E+01  3.5000E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o639
1
1
1
0
0
End of Scenario File

```

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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:12:09
#####
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Rele
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Released

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

Name: MSIV Failed Inboard Volume 1

Compartment volume = 3.9068E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 6

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Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Rele

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 10: DW to Intact Inboard Volume 3
Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Outboard Volume 4
Compartment volume = 4.8703E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 9
Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Released

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:12:09
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00

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9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Rele

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00

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1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Released)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	3.1300E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	4.2600E-05
8.0000E+00	2.8700E-05
2.4000E+01	1.2100E-05
9.6000E+01	3.5000E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate ($\text{m}^3 \cdot \text{sec}^{-1}$)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:12:09
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#####
Dose, Detailed model and Detailed Inventory Output
#####
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		0.0000E+00
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		0.0000E+00
Total I (Ci)			0.0000E+00

		Deposition	Recirculating
Time (h) =	0.0167	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		0.0000E+00
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		0.0000E+00
Total I (Ci)			0.0000E+00

	Deposition	Recirculating
Time (h) =	0.0833	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
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Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		0.0000E+00	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		0.0000E+00	
Total I (Ci)			0.0000E+00	

		Deposition	Recirculating
Time (h) =	0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway
Time (h) =	0.3333	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	0.0000E+00	
Total I (Ci)		0.0000E+00	

	Deposition	Recirculating
Time (h) =	0.5000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	0.5000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 0.0000E+00
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 0.0000E+00

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway
Time (h) =	0.5000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 0.0000E+00
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 0.0000E+00

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway
Time (h) =	0.5000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 0.0000E+00
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	
Accumulated dose (rem)	0.0000E+00	0.0000E+00	0.0000E+00	

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	

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Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			0.0000E+00
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			0.0000E+00
Total I (Ci)			0.0000E+00

	Deposition	Recirculating
Time (h) = 2.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4592E-03	5.2424E-03	3.6745E-03
Accumulated dose (rem)	3.4592E-03	5.2424E-03	3.6745E-03

LPZ Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7080E-04	7.1350E-04	5.0011E-04
Accumulated dose (rem)	4.7080E-04	7.1350E-04	5.0011E-04

CR Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1624E-05	9.3719E-05	2.8507E-05
Accumulated dose (rem)	2.1624E-05	9.3719E-05	2.8507E-05

CR Compartment Nuclide Inventory:

Time (h) = 2.2500	Ci	kg	Atoms	Decay
Kr-83m	1.6460E-03	8.1084E-14	5.8831E+11	3.8198E+10
Kr-85m	6.0523E-03	7.3544E-13	5.2105E+12	1.3738E+11
Kr-85	4.3334E-04	1.1056E-09	7.8327E+15	9.6843E+09
Kr-87	5.0735E-03	1.7911E-13	1.2398E+12	1.1984E+11
Kr-88	1.3569E-02	1.0822E-12	7.4056E+12	3.1081E+11
Rb-86	2.8965E-09	3.5597E-17	2.4927E+08	8.3730E+04
Rb-88	4.7740E-03	3.9547E-14	2.7064E+11	3.7792E+10
Sr-89	1.5952E-07	5.4907E-15	3.7152E+10	4.6107E+06
Sr-90	1.7086E-08	1.2526E-13	8.3815E+11	4.9384E+05
Sr-91	1.6706E-07	4.6086E-17	3.0498E+08	4.8694E+06
Sr-92	1.1464E-07	9.1206E-18	5.9702E+07	3.4133E+06
Y-90	2.4371E-10	4.4795E-19	2.9973E+06	6.1977E+03
Y-91	2.0125E-09	8.2063E-17	5.4307E+08	5.8009E+04
Y-92	1.0171E-08	1.0571E-18	6.9193E+06	1.9259E+05
Y-93	1.9138E-09	5.7362E-19	3.7144E+06	5.5753E+04
Zr-95	2.3609E-09	1.0990E-16	6.9665E+08	6.8240E+04
Zr-97	2.0788E-09	1.0874E-18	6.7511E+06	6.0367E+04
Nb-95	2.3308E-09	5.9607E-17	3.7786E+08	6.7364E+04

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Mo-99	2.9135E-08	6.0747E-17	3.6952E+08	8.4310E+05
Tc-99m	2.6230E-08	4.9884E-18	3.0344E+07	7.5450E+05
Ru-103	2.5784E-08	7.9892E-16	4.6711E+09	7.4530E+05
Ru-105	1.2949E-08	1.9263E-18	1.1048E+07	3.8108E+05
Ru-106	1.0735E-08	3.2088E-15	1.8230E+10	3.1028E+05
Rh-105	1.7051E-08	2.0202E-17	1.1587E+08	4.9276E+05
Sb-127	2.9218E-08	1.0941E-16	5.1881E+08	8.4521E+05
Sb-129	6.3993E-08	1.1380E-17	5.3125E+07	1.8843E+06
Te-127	2.9334E-08	1.1115E-17	5.2706E+07	8.4516E+05
Te-127m	5.0263E-09	5.3286E-16	2.5268E+09	1.4527E+05
Te-129	7.3560E-08	3.5125E-18	1.6398E+07	2.1029E+06
Te-129m	1.6484E-08	5.4717E-16	2.5544E+09	4.7641E+05
Te-131m	5.9286E-08	7.4348E-17	3.4178E+08	1.7181E+06
Te-132	4.3921E-07	1.4467E-15	6.6002E+09	1.2707E+07
I-131	3.6060E-06	2.9086E-14	1.3371E+11	9.2237E+07
I-132	4.7497E-06	4.6015E-16	2.0993E+09	1.2488E+08
I-133	6.9859E-06	6.1669E-15	2.7923E+10	1.7927E+08
I-134	1.4582E-06	5.4660E-17	2.4565E+08	4.0694E+07
I-135	5.6204E-06	1.6004E-15	7.1391E+09	1.4536E+08
Xe-133	5.2707E-02	2.8158E-10	1.2750E+15	1.1785E+12
Xe-133m	1.6021E-03	3.6390E-12	1.6477E+13	3.5850E+10
Xe-135	2.2776E-02	8.9186E-12	3.9785E+13	5.1265E+11
Xe-135m	7.8731E-04	8.6486E-15	3.8580E+10	2.3481E+10
Xe-138	6.5367E-05	6.8124E-16	2.9729E+09	2.0002E+09
Cs-134	2.9063E-07	2.2463E-13	1.0095E+12	8.4000E+06
Cs-136	8.8244E-08	1.2040E-15	5.3315E+09	2.5511E+06
Cs-137	2.2565E-07	2.5942E-12	1.1404E+13	6.5219E+06
Ba-139	7.7876E-08	4.7610E-18	2.0627E+07	2.3869E+06
Ba-140	2.3374E-07	3.1928E-15	1.3734E+10	6.7576E+06
La-140	3.8265E-09	6.8843E-18	2.9613E+07	9.2212E+04
La-141	1.4830E-09	2.6224E-19	1.1200E+06	4.3749E+04
La-142	7.8677E-10	5.4961E-20	2.3309E+05	2.3963E+04
Ce-141	5.5457E-09	1.9463E-16	8.3128E+08	1.6030E+05
Ce-143	5.1595E-09	7.7693E-18	3.2719E+07	1.4948E+05
Ce-144	4.4447E-09	1.3936E-15	5.8279E+09	1.2847E+05
Pr-143	2.1196E-09	3.1477E-17	1.3256E+08	6.1227E+04
Nd-147	8.5852E-10	1.0612E-17	4.3475E+07	2.4821E+04
Np-239	6.1540E-08	2.6527E-16	6.6840E+08	1.7812E+06
Pu-238	1.3813E-11	8.0688E-16	2.0417E+09	3.9924E+02
Pu-239	1.3934E-12	2.2417E-14	5.6485E+10	4.0271E+01
Pu-240	2.4608E-12	1.0804E-15	2.7111E+09	7.1124E+01
Pu-241	5.4672E-10	5.5284E-15	1.3814E+10	1.5801E+04
Am-241	3.0934E-13	9.0297E-17	2.2563E+08	8.9402E+00
Cm-242	8.4934E-11	2.5658E-17	6.3850E+07	2.4549E+03
Cm-244	5.6181E-12	6.8637E-17	1.6940E+08	1.6238E+02

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	9.1784E+15	0.0000E+00	
Elemental I (atoms)	1.2536E+10	0.0000E+00	
Organic I (atoms)	8.7912E+10	0.0000E+00	
Aerosols (kg)	3.0481E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.5986E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.6883E-16	
Total I (Ci)		2.2420E-05	

	Deposition	Recirculating
Time (h) =	2.2500	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.1090E+08
Organic I (atoms)	0.0000E+00	1.0852E+09
Aerosols (kg)	0.0000E+00	5.0767E-14

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.9830E+15
Elemental I (atoms)	6.7771E+10	6.8456E+08
Organic I (atoms)	4.6664E+11	4.7135E+09
Aerosols (kg)	1.6208E-11	1.6372E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4783E+15
Elemental I (atoms)	0.0000E+00	1.2677E+10

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Organic I (atoms)	0.0000E+00	8.7288E+10
Aerosols (kg)	0.0000E+00	3.0318E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	2.6973E+14	0.0000E+00
Elemental I (atoms)	5.0496E+08	0.0000E+00
Organic I (atoms)	2.5982E+09	0.0000E+00
Aerosols (kg)	1.2155E-13	0.0000E+00

EAB Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0549E-03	1.8934E-03	2.1246E-03
Accumulated dose (rem)	5.5141E-03	7.1358E-03	5.7991E-03

LPZ Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7967E-04	2.5770E-04	2.8916E-04
Accumulated dose (rem)	7.5048E-04	9.7120E-04	7.8927E-04

CR Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3870E-05	1.1211E-04	4.6745E-05
Accumulated dose (rem)	5.5495E-05	2.0582E-04	7.5252E-05

CR Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	2.4835E-03	1.2235E-13	8.8769E+11	8.5013E+10
Kr-85m	9.4356E-03	1.1466E-12	8.1232E+12	3.1243E+11
Kr-85	6.9145E-04	1.7640E-09	1.2498E+16	2.2368E+10
Kr-87	7.4598E-03	2.6336E-13	1.8230E+12	2.6226E+11
Kr-88	2.0873E-02	1.6646E-12	1.1392E+13	7.0058E+11
Rb-86	3.0716E-09	3.7750E-17	2.6434E+08	1.4435E+05
Rb-88	9.5525E-03	7.9132E-14	5.4152E+11	1.4300E+11
Sr-89	1.6919E-07	5.8236E-15	3.9405E+10	7.9497E+06
Sr-90	1.8124E-08	1.3287E-13	8.8905E+11	8.5151E+05
Sr-91	1.7528E-07	4.8352E-17	3.1998E+08	8.3473E+06
Sr-92	1.1702E-07	9.3103E-18	6.0943E+07	5.7674E+06
Y-90	2.8752E-10	5.2847E-19	3.5362E+06	1.1426E+04
Y-91	2.1400E-09	8.7264E-17	5.7749E+08	1.0016E+05
Y-92	1.3958E-08	1.4506E-18	9.4950E+06	4.1798E+05
Y-93	2.0092E-09	6.0222E-19	3.8996E+06	9.5608E+04
Zr-95	2.5041E-09	1.1656E-16	7.3891E+08	1.1766E+05
Zr-97	2.1915E-09	1.1464E-18	7.1171E+06	1.0375E+05
Nb-95	2.4724E-09	6.3227E-17	4.0080E+08	1.1615E+05
Mo-99	3.0856E-08	6.4334E-17	3.9134E+08	1.4525E+06
Tc-99m	2.7814E-08	5.2896E-18	3.2176E+07	1.3009E+06
Ru-103	2.7347E-08	8.4734E-16	4.9542E+09	1.2850E+06
Ru-105	1.3417E-08	1.9960E-18	1.1448E+07	6.4897E+05
Ru-106	1.1387E-08	3.4036E-15	1.9337E+10	5.3500E+05
Rh-105	1.8074E-08	2.1413E-17	1.2281E+08	8.4935E+05
Sb-127	3.0958E-08	1.1592E-16	5.4969E+08	1.4565E+06
Sb-129	6.6265E-08	1.1784E-17	5.5011E+07	3.2078E+06
Te-127	3.1111E-08	1.1788E-17	5.5898E+07	1.4573E+06
Te-127m	5.3315E-09	5.6522E-16	2.6802E+09	2.5048E+05
Te-129	7.6874E-08	3.6707E-18	1.7136E+07	3.6003E+06
Te-129m	1.7484E-08	5.8039E-16	2.7094E+09	8.2145E+05
Te-131m	6.2668E-08	7.8590E-17	3.6128E+08	2.9570E+06
Te-132	4.6526E-07	1.5325E-15	6.9917E+09	2.1895E+07
I-131	4.7771E-06	3.8533E-14	1.7714E+11	1.8263E+08
I-132	6.0432E-06	5.8546E-16	2.6710E+09	2.4144E+08
I-133	9.2134E-06	8.1333E-15	3.6827E+10	3.5400E+08
I-134	1.7166E-06	6.4348E-17	2.8919E+08	7.5135E+07
I-135	7.3334E-06	2.0882E-15	9.3150E+09	2.8517E+08
Xe-133	8.4033E-02	4.4894E-10	2.0328E+15	2.7206E+12
Xe-133m	2.5514E-03	5.7952E-12	2.6240E+13	8.2695E+10
Xe-135	3.5940E-02	1.4074E-11	6.2780E+13	1.1754E+12
Xe-135m	8.3749E-04	9.1999E-15	4.1039E+10	4.2321E+10
Xe-138	6.7219E-05	7.0055E-16	3.0571E+09	3.5386E+09
Cs-134	3.0828E-07	2.3827E-13	1.0708E+12	1.4484E+07
Cs-136	9.3571E-08	1.2767E-15	5.6533E+09	4.3980E+06
Cs-137	2.3935E-07	2.7518E-12	1.2096E+13	1.1245E+07

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Ba-139	7.6603E-08	4.6832E-18	2.0290E+07	3.9569E+06
Ba-140	2.4785E-07	3.3856E-15	1.4563E+10	1.1650E+07
La-140	4.6880E-09	8.4343E-18	3.6280E+07	1.7505E+05
La-141	1.5320E-09	2.7090E-19	1.1570E+06	7.4385E+04
La-142	7.8012E-10	5.4497E-20	2.3112E+05	3.9888E+04
Ce-141	5.8819E-09	2.0643E-16	8.8167E+08	2.7638E+05
Ce-143	5.4556E-09	8.2152E-18	3.4597E+07	2.5732E+05
Ce-144	4.7146E-09	1.4782E-15	6.1817E+09	2.2151E+05
Pr-143	2.2494E-09	3.3404E-17	1.4067E+08	1.0560E+05
Nd-147	9.1029E-10	1.1252E-17	4.6097E+07	4.2788E+04
Np-239	6.5157E-08	2.8086E-16	7.0769E+08	3.0682E+06
Pu-238	1.4652E-11	8.5588E-16	2.1656E+09	6.8840E+02
Pu-239	1.4780E-12	2.3779E-14	5.9917E+10	6.9439E+01
Pu-240	2.6103E-12	1.1460E-15	2.8757E+09	1.2264E+02
Pu-241	5.7991E-10	5.8641E-15	1.4653E+10	2.7246E+04
Am-241	3.2814E-13	9.5784E-17	2.3935E+08	1.5416E+01
Cm-242	9.0090E-11	2.7216E-17	6.7725E+07	4.2328E+03
Cm-244	5.9592E-12	7.2805E-17	1.7969E+08	2.7998E+02

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	1.4642E+16	0.0000E+00	
Elemental I (atoms)	1.2612E+10	0.0000E+00	
Organic I (atoms)	1.3885E+11	0.0000E+00	
Aerosols (kg)	3.2703E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.0811E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.5050E-16	
Total I (Ci)		2.9084E-05	

	Deposition	Recirculating
Time (h) =	2.4000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.1133E+08
Organic I (atoms)	0.0000E+00	2.8802E+09
Aerosols (kg)	0.0000E+00	1.0053E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2976E+16
Elemental I (atoms)	7.1768E+10	7.2493E+08
Organic I (atoms)	7.5758E+11	7.6523E+09
Aerosols (kg)	1.7981E-11	1.8162E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.4029E+15
Elemental I (atoms)	0.0000E+00	1.3425E+10
Organic I (atoms)	0.0000E+00	1.4171E+11
Aerosols (kg)	0.0000E+00	3.3634E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	7.2057E+14	0.0000E+00
Elemental I (atoms)	9.8486E+08	0.0000E+00
Organic I (atoms)	6.8962E+09	0.0000E+00
Aerosols (kg)	2.4070E-13	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8272E-02	1.9751E-02	1.9079E-02	
Accumulated dose (rem)	2.3786E-02	2.6887E-02	2.4878E-02	

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4869E-03	2.6882E-03	2.5967E-03	
Accumulated dose (rem)	3.2374E-03	3.6594E-03	3.3859E-03	

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem) 1.0314E-03 2.7449E-03 1.6622E-03
 Accumulated dose (rem) 1.0869E-03 2.9507E-03 1.7374E-03

CR Compartment Nuclide Inventory:

Time (h) = 4.0000	Ci	kg	Atoms	Decay
Kr-83m	5.7639E-03	2.8394E-13	2.0602E+12	1.1448E+12
Kr-85m	3.1035E-02	3.7712E-12	2.6718E+13	5.2102E+12
Kr-85	2.9131E-03	7.4321E-09	5.2655E+16	4.3713E+11
Kr-87	1.3139E-02	4.6386E-13	3.2109E+12	3.0067E+12
Kr-88	5.9510E-02	4.7459E-12	3.2478E+13	1.0688E+13
Rb-86	4.4261E-09	5.4396E-17	3.8091E+08	9.6630E+05
Rb-88	5.5325E-02	4.5831E-13	3.1363E+12	6.5300E+12
Sr-89	2.4417E-07	8.4047E-15	5.6870E+10	5.3261E+07
Sr-90	2.6181E-08	1.9193E-13	1.2843E+12	5.7077E+06
Sr-91	2.2530E-07	6.2151E-17	4.1130E+08	5.2525E+07
Sr-92	1.1227E-07	8.9323E-18	5.8469E+07	3.1198E+07
Y-90	8.5821E-10	1.5774E-18	1.0555E+07	1.2938E+05
Y-91	3.1682E-09	1.2919E-16	8.5492E+08	6.8079E+05
Y-92	5.2020E-08	5.4062E-18	3.5388E+07	7.4608E+06
Y-93	2.6005E-09	7.7946E-19	5.0473E+06	6.0385E+05
Zr-95	3.6147E-09	1.6826E-16	1.0666E+09	7.8837E+05
Zr-97	2.9646E-09	1.5508E-18	9.6279E+06	6.7102E+05
Nb-95	3.5714E-09	9.1334E-17	5.7897E+08	7.7858E+05
Mo-99	4.3829E-08	9.1384E-17	5.5589E+08	9.6470E+06
Tc-99m	3.9999E-08	7.6068E-18	4.6272E+07	8.6956E+06
Ru-103	3.9457E-08	1.2226E-15	7.1481E+09	8.6079E+06
Ru-105	1.5098E-08	2.2460E-18	1.2882E+07	3.8074E+06
Ru-106	1.6447E-08	4.9160E-15	2.7929E+10	3.5859E+06
Rh-105	2.5832E-08	3.0604E-17	1.7553E+08	5.6638E+06
Sb-127	4.4186E-08	1.6546E-16	7.8458E+08	9.6990E+06
Sb-129	7.4049E-08	1.3168E-17	6.1473E+07	1.8752E+07
Te-127	4.4853E-08	1.6995E-17	8.0590E+07	9.7549E+06
Te-127m	7.7017E-09	8.1650E-16	3.8717E+09	1.6790E+06
Te-129	9.3497E-08	4.4645E-18	2.0842E+07	2.2016E+07
Te-129m	2.5248E-08	8.3809E-16	3.9125E+09	5.5053E+06
Te-131m	8.7241E-08	1.0941E-16	5.0295E+08	1.9424E+07
Te-132	6.6262E-07	2.1826E-15	9.9575E+09	1.4563E+08
I-131	1.3868E-05	1.1186E-13	5.1423E+11	2.3245E+09
I-132	1.1403E-05	1.1048E-15	5.0401E+09	2.3700E+09
I-133	2.5503E-05	2.2513E-14	1.0194E+11	4.3740E+09
I-134	1.4144E-06	5.3021E-17	2.3828E+08	4.7296E+08
I-135	1.8103E-05	5.1549E-15	2.2995E+10	3.2844E+09
Xe-133	3.5102E-01	1.8753E-09	8.4913E+15	5.2872E+13
Xe-133m	1.0529E-02	2.3915E-11	1.0829E+14	1.5944E+12
Xe-135	1.3413E-01	5.2523E-11	2.3430E+14	2.1252E+13
Xe-135m	5.4795E-05	6.0192E-16	2.6851E+09	1.2078E+11
Xe-138	2.6119E-06	2.7221E-17	1.1879E+08	9.1651E+09
Cs-134	4.4529E-07	3.4416E-13	1.5467E+12	9.7082E+07
Cs-136	1.3469E-07	1.8378E-15	8.1377E+09	2.9423E+07
Cs-137	3.4575E-07	3.9750E-12	1.7473E+13	7.5379E+07
Ba-139	4.9492E-08	3.0257E-18	1.3109E+07	1.7733E+07
Ba-140	3.5674E-07	4.8729E-15	2.0961E+10	7.7933E+07
La-140	1.6304E-08	2.9333E-17	1.2618E+08	2.3134E+06
La-141	1.6689E-09	2.9511E-19	1.2604E+06	4.2915E+05
La-142	5.4887E-10	3.8342E-20	1.6261E+05	1.8587E+05
Ce-141	8.4873E-09	2.9787E-16	1.2722E+09	1.8515E+06
Ce-143	7.6203E-09	1.1475E-17	4.8324E+07	1.6934E+06
Ce-144	6.8092E-09	2.1349E-15	8.9282E+09	1.4846E+06
Pr-143	3.2646E-09	4.8481E-17	2.0417E+08	7.0967E+05
Nd-147	1.3094E-09	1.6186E-17	6.6309E+07	2.8615E+05
Np-239	9.2293E-08	3.9783E-16	1.0024E+09	2.0347E+07
Pu-238	2.1166E-11	1.2364E-15	3.1284E+09	4.6144E+03
Pu-239	2.1356E-12	3.4358E-14	8.6572E+10	4.6551E+02
Pu-240	3.7706E-12	1.6555E-15	4.1540E+09	8.2204E+02
Pu-241	8.3770E-10	8.4708E-15	2.1167E+10	1.8263E+05
Am-241	4.7426E-13	1.3844E-16	3.4592E+08	1.0336E+02
Cm-242	1.3010E-10	3.9303E-17	9.7804E+07	2.8368E+04
Cm-244	8.6082E-12	1.0517E-16	2.5957E+08	1.8767E+03

CR Transport Group Inventory:

Time (h) = 4.0000	Atmosphere	Sump
Noble gases (atoms)	6.1554E+16	0.0000E+00
Elemental I (atoms)	9.0669E+09	0.0000E+00
Organic I (atoms)	5.3000E+11	0.0000E+00
Aerosols (kg)	5.0674E-12	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.7339E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.0972E-15

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Total I (Ci) 7.0292E-05

	Deposition	Recirculating
Time (h) = 4.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.2090E+09
Organic I (atoms)	0.0000E+00	6.2686E+10
Aerosols (kg)	0.0000E+00	8.1628E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.6135E+16
Elemental I (atoms)	8.6072E+10	8.6941E+08
Organic I (atoms)	3.8167E+12	3.8553E+10
Aerosols (kg)	3.6753E-11	3.7124E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2247E+16
Elemental I (atoms)	0.0000E+00	1.6100E+10
Organic I (atoms)	0.0000E+00	7.1394E+11
Aerosols (kg)	0.0000E+00	6.8748E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	1.6724E+16	0.0000E+00
Elemental I (atoms)	5.2890E+09	0.0000E+00
Organic I (atoms)	1.5009E+11	0.0000E+00
Aerosols (kg)	1.9544E-12	0.0000E+00

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6170E-02	4.7431E-02	2.7999E-02
Accumulated dose (rem)	4.9957E-02	7.4318E-02	5.2877E-02

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5619E-03	6.4554E-03	3.8107E-03
Accumulated dose (rem)	6.7992E-03	1.0115E-02	7.1967E-03

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6726E-03	1.3073E-02	6.3304E-03
Accumulated dose (rem)	4.7595E-03	1.6023E-02	8.0678E-03

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	2.5598E-03	1.2610E-13	9.1496E+11	3.4801E+12
Kr-85m	3.2957E-02	4.0047E-12	2.8373E+13	2.4075E+13
Kr-85	5.7444E-03	1.4655E-08	1.0383E+17	2.8878E+12
Kr-87	2.9279E-03	1.0337E-13	7.1550E+11	7.0340E+12
Kr-88	4.4206E-02	3.5254E-12	2.4125E+13	4.1095E+13
Rb-86	5.7234E-09	7.0341E-17	4.9256E+08	3.7623E+06
Rb-88	4.6954E-02	3.8896E-13	2.6618E+12	3.2985E+13
Sr-89	3.1698E-07	1.0911E-14	7.3827E+10	2.0782E+08
Sr-90	3.4064E-08	2.4972E-13	1.6710E+12	2.2299E+07
Sr-91	2.1894E-07	6.0398E-17	3.9970E+08	1.7563E+08
Sr-92	5.2514E-08	4.1779E-18	2.7348E+07	7.4824E+07
Y-90	2.5143E-09	4.6214E-18	3.0923E+07	1.0208E+06
Y-91	4.3247E-09	1.7635E-16	1.1670E+09	2.7411E+06
Y-92	7.7869E-08	8.0925E-18	5.2972E+07	4.5779E+07
Y-93	2.5714E-09	7.7072E-19	4.9907E+06	2.0371E+06
Zr-95	4.6947E-09	2.1853E-16	1.3853E+09	3.0770E+06
Zr-97	3.2737E-09	1.7125E-18	1.0632E+07	2.3981E+06
Nb-95	4.6470E-09	1.1884E-16	7.5333E+08	3.0419E+06
Mo-99	5.4682E-08	1.1401E-16	6.9353E+08	3.6825E+07
Tc-99m	5.1049E-08	9.7084E-18	5.9056E+07	3.3675E+07
Ru-103	5.1189E-08	1.5861E-15	9.2734E+09	3.3576E+07

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Ru-105	1.0520E-08	1.5651E-18	8.9762E+06	1.0834E+07
Ru-106	2.1393E-08	6.3944E-15	3.6328E+10	1.4007E+07
Rh-105	3.2174E-08	3.8119E-17	2.1863E+08	2.1688E+07
Sb-127	5.5793E-08	2.0892E-16	9.9067E+08	3.7269E+07
Sb-129	5.0712E-08	9.0181E-18	4.2099E+07	5.2936E+07
Te-127	5.7867E-08	2.1927E-17	1.0397E+08	3.7964E+07
Te-127m	1.0021E-08	1.0624E-15	5.0377E+09	6.5599E+06
Te-129	7.6529E-08	3.6543E-18	1.7059E+07	6.7836E+07
Te-129m	3.2792E-08	1.0885E-15	5.0815E+09	2.1492E+07
Te-131m	1.0349E-07	1.2979E-16	5.9663E+08	7.2137E+07
Te-132	8.3213E-07	2.7409E-15	1.2505E+10	5.5791E+08
I-131	2.2495E-05	1.8145E-13	8.3414E+11	1.2632E+10
I-132	7.0908E-06	6.8695E-16	3.1340E+09	7.5422E+09
I-133	3.6724E-05	3.2418E-14	1.4679E+11	2.2168E+10
I-134	9.8472E-08	3.6913E-18	1.6589E+07	7.5956E+08
I-135	1.9581E-05	5.5758E-15	2.4873E+10	1.4188E+10
Xe-133	6.7754E-01	3.6197E-09	1.6390E+16	3.4472E+14
Xe-133m	1.9713E-02	4.4777E-11	2.0275E+14	1.0204E+13
Xe-135	1.9502E-01	7.6365E-11	3.4065E+14	1.1704E+14
Xe-135m	7.6843E-06	8.4412E-17	3.7655E+08	1.2820E+11
Cs-134	5.7930E-07	4.4774E-13	2.0122E+12	3.7926E+08
Cs-136	1.7371E-07	2.3702E-15	1.0495E+10	1.1439E+08
Cs-137	4.4987E-07	5.1720E-12	2.2735E+13	2.9450E+08
Ba-139	8.6149E-09	5.2668E-19	2.2818E+06	3.0705E+07
Ba-140	4.5998E-07	6.2831E-15	2.7027E+10	3.0295E+08
La-140	5.0569E-08	9.0979E-17	3.9135E+08	1.9982E+07
La-141	1.0724E-09	1.8963E-19	8.0992E+05	1.1771E+06
La-142	1.1823E-10	8.2595E-21	3.5028E+04	3.4150E+05
Ce-141	1.1010E-08	3.8639E-16	1.6503E+09	7.2218E+06
Ce-143	9.1161E-09	1.3727E-17	5.7810E+07	6.3176E+06
Ce-144	8.8562E-09	2.7767E-15	1.1612E+10	5.7990E+06
Pr-143	4.2924E-09	6.3743E-17	2.6844E+08	2.7897E+06
Nd-147	1.6859E-09	2.0840E-17	8.5374E+07	1.1115E+06
Np-239	1.1434E-07	4.9285E-16	1.2418E+09	7.7369E+07
Pu-238	2.7540E-11	1.6087E-15	4.0705E+09	1.8028E+04
Pu-239	2.7802E-12	4.4729E-14	1.1270E+11	1.8193E+03
Pu-240	4.9061E-12	2.1540E-15	5.4050E+09	3.2116E+03
Pu-241	1.0899E-09	1.1021E-14	2.7541E+10	7.1351E+05
Am-241	6.1787E-13	1.8036E-16	4.5068E+08	4.0411E+02
Cm-242	1.6916E-10	5.1102E-17	1.2717E+08	1.1079E+05
Cm-244	1.1200E-11	1.3684E-16	3.3773E+08	7.3321E+03

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	1.2082E+17	0.0000E+00	
Elemental I (atoms)	5.5796E+09	0.0000E+00	
Organic I (atoms)	8.7290E+11	0.0000E+00	
Aerosols (kg)	6.3843E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.7081E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.1698E-15	
Total I (Ci)		8.5990E-05	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.1278E+09
Organic I (atoms)	0.0000E+00	3.7756E+11
Aerosols (kg)	0.0000E+00	3.3141E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9832E+17
Elemental I (atoms)	1.2041E+11	1.2163E+09
Organic I (atoms)	1.1167E+13	1.1280E+11
Aerosols (kg)	8.3514E-11	8.4357E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.6725E+16
Elemental I (atoms)	0.0000E+00	2.2524E+10
Organic I (atoms)	0.0000E+00	2.0889E+12
Aerosols (kg)	0.0000E+00	1.5622E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

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	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	1.1368E+17	0.0000E+00
Elemental I (atoms)	1.2278E+10	0.0000E+00
Organic I (atoms)	9.0401E+11	0.0000E+00
Aerosols (kg)	7.9350E-12	0.0000E+00

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1171E-02	8.8253E-02	2.4302E-02
Accumulated dose (rem)	7.1128E-02	1.6257E-01	7.7179E-02

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9413E-03	4.1617E-03	2.0889E-03
Accumulated dose (rem)	8.7405E-03	1.4277E-02	9.2856E-03

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8283E-03	1.7561E-02	4.9032E-03
Accumulated dose (rem)	7.5878E-03	3.3585E-02	1.2971E-02

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	7.0870E-05	3.4912E-15	2.5331E+10	4.1730E+12
Kr-85m	5.2167E-03	6.3390E-13	4.4911E+12	3.8977E+13
Kr-85	3.1350E-03	7.9981E-09	5.6666E+16	7.1380E+12
Kr-87	2.0408E-05	7.2047E-16	4.9871E+09	7.6226E+12
Kr-88	3.4238E-03	2.7305E-13	1.8686E+12	5.6933E+13
Rb-86	2.4444E-09	3.0042E-17	2.1037E+08	7.3392E+06
Rb-88	9.9976E-03	8.2819E-14	5.6676E+11	4.7893E+13
Sr-89	1.3644E-07	4.6963E-15	3.1778E+10	4.0658E+08
Sr-90	1.4729E-08	1.0798E-13	7.2253E+11	4.3701E+07
Sr-91	5.2811E-08	1.4569E-17	9.6411E+07	2.8426E+08
Sr-92	2.9344E-09	2.3346E-19	1.5282E+06	9.0962E+07
Y-90	2.2225E-09	4.0851E-18	2.7334E+07	3.2750E+06
Y-91	1.9814E-09	8.0793E-17	5.3467E+08	5.5322E+06
Y-92	1.3177E-08	1.3694E-18	8.9637E+06	8.1102E+07
Y-93	6.4213E-10	1.9247E-19	1.2463E+06	3.3300E+06
Zr-95	2.0227E-09	9.4155E-17	5.9686E+08	6.0220E+06
Zr-97	1.0196E-09	5.3336E-19	3.3113E+06	4.1932E+06
Nb-95	2.0094E-09	5.1386E-17	3.2574E+08	5.9610E+06
Mo-99	2.1740E-08	4.5327E-17	2.7572E+08	6.9976E+07
Tc-99m	2.1104E-08	4.0136E-18	2.4414E+07	6.4447E+07
Ru-103	2.2005E-08	6.8181E-16	3.9864E+09	6.5656E+07
Ru-105	1.3048E-09	1.9410E-19	1.1132E+06	1.4955E+07
Ru-106	9.2447E-09	2.7632E-15	1.5699E+10	2.7444E+07
Rh-105	1.2266E-08	1.4532E-17	8.3345E+07	4.0895E+07
Sb-127	2.2720E-08	8.5077E-17	4.0342E+08	7.1438E+07
Sb-129	6.0750E-09	1.0803E-18	5.0432E+06	7.2576E+07
Te-127	2.4493E-08	9.2807E-18	4.4008E+07	7.3491E+07
Te-127m	4.3330E-09	4.5936E-16	2.1782E+09	1.2856E+07
Te-129	1.9819E-08	9.4638E-19	4.4180E+06	1.0108E+08
Te-129m	1.4101E-08	4.6807E-16	2.1851E+09	4.2048E+07
Te-131m	3.7199E-08	4.6650E-17	2.1445E+08	1.3229E+08
Te-132	3.3519E-07	1.1041E-15	5.0370E+09	1.0652E+09
I-131	9.8418E-06	7.9385E-14	3.6494E+11	2.6897E+10
I-132	1.0578E-06	1.0248E-16	4.6754E+08	1.0171E+10
I-133	1.2662E-05	1.1177E-14	5.0610E+10	4.3240E+10
I-134	7.9358E-11	2.9748E-21	1.3369E+04	7.7301E+08
I-135	3.8092E-06	1.0847E-15	4.8385E+09	2.3192E+10
Xe-133	3.5429E-01	1.8927E-09	8.5702E+15	8.3653E+14
Xe-133m	9.7004E-03	2.2034E-11	9.9766E+13	2.4135E+13
Xe-135	5.7859E-02	2.2657E-11	1.0107E+14	2.2856E+14
Xe-135m	2.1603E-06	2.3732E-17	1.0586E+08	1.3137E+11
Cs-134	2.5042E-07	1.9355E-13	8.6982E+11	7.4317E+08
Cs-136	7.3802E-08	1.0070E-15	4.4589E+09	2.2271E+08
Cs-137	1.9452E-07	2.2364E-12	9.8305E+12	5.7714E+08
Ba-139	6.6671E-11	4.0760E-21	1.7659E+04	3.2383E+07
Ba-140	1.9532E-07	2.6680E-15	1.1477E+10	5.8971E+08
La-140	4.4504E-08	8.0069E-17	3.4442E+08	6.5326E+07
La-141	1.1310E-10	2.0000E-20	8.5418E+04	1.5756E+06
Ce-141	4.7286E-09	1.6596E-16	7.0880E+08	1.4119E+07

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Ce-143	3.3322E-09	5.0177E-18	2.1131E+07	1.1653E+07
Ce-144	3.8264E-09	1.1997E-15	5.0171E+09	1.1361E+07
Pr-143	1.8860E-09	2.8008E-17	1.1795E+08	5.5044E+06
Nd-147	7.1382E-10	8.8237E-18	3.6148E+07	2.1612E+06
Np-239	4.4820E-08	1.9320E-16	4.8680E+08	1.4628E+08
Pu-238	1.1909E-11	6.9564E-16	1.7602E+09	3.5332E+04
Pu-239	1.2034E-12	1.9361E-14	4.8785E+10	3.5668E+03
Pu-240	2.1214E-12	9.3143E-16	2.3372E+09	6.2941E+03
Pu-241	4.7128E-10	4.7656E-15	1.1908E+10	1.3983E+06
Am-241	2.6786E-13	7.8188E-17	1.9538E+08	7.9271E+02
Cm-242	7.3042E-11	2.2066E-17	5.4910E+07	2.1700E+05
Cm-244	4.8429E-12	5.9167E-17	1.4603E+08	1.4369E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump	
Noble gases (atoms)	6.5443E+16	0.0000E+00	
Elemental I (atoms)	1.7933E+09	0.0000E+00	
Organic I (atoms)	3.6678E+11	0.0000E+00	
Aerosols (kg)	2.6740E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.1184E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.2588E-15	
Total I (Ci)		2.7371E-05	

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.5682E+09
Organic I (atoms)	0.0000E+00	8.1269E+11
Aerosols (kg)	0.0000E+00	6.4582E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9584E+17
Elemental I (atoms)	1.4437E+11	1.4583E+09
Organic I (atoms)	1.6296E+13	1.6461E+11
Aerosols (kg)	1.1815E-10	1.1934E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4786E+16
Elemental I (atoms)	0.0000E+00	2.7006E+10
Organic I (atoms)	0.0000E+00	3.0483E+12
Aerosols (kg)	0.0000E+00	2.2100E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	2.8400E+17	0.0000E+00
Elemental I (atoms)	1.8121E+10	0.0000E+00
Organic I (atoms)	1.9458E+12	0.0000E+00
Aerosols (kg)	1.5463E-11	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7795E-03	8.1337E-02	1.2590E-02
Accumulated dose (rem)	8.0908E-02	2.4391E-01	8.9769E-02

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.9672E-04	3.8356E-03	1.0293E-03
Accumulated dose (rem)	9.6372E-03	1.8112E-02	1.0315E-02

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6490E-04	1.1293E-02	1.5621E-03
Accumulated dose (rem)	8.4527E-03	4.4877E-02	1.4533E-02

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
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Kr-83m	3.1812E-06	1.5672E-16	1.1371E+09	4.1957E+12
Kr-85m	1.3388E-03	1.6269E-13	1.1526E+12	4.1936E+13
Kr-85	2.7740E-03	7.0771E-09	5.0140E+16	1.0205E+13
Kr-87	2.3063E-07	8.1421E-18	5.6359E+07	7.6272E+12
Kr-88	4.2995E-04	3.4289E-14	2.3465E+11	5.8430E+13
Rb-86	2.2207E-09	2.7292E-17	1.9111E+08	9.7710E+06
Rb-88	1.2523E-03	1.0374E-14	7.0994E+10	4.9254E+13
Sr-89	1.2492E-07	4.2999E-15	2.9095E+10	5.4284E+08
Sr-90	1.3548E-08	9.9317E-14	6.6456E+11	5.8444E+07
Sr-91	2.7096E-08	7.4749E-18	4.9467E+07	3.2443E+08
Sr-92	3.4878E-10	2.7749E-20	1.8164E+05	9.2225E+07
Y-90	3.0051E-09	5.5234E-18	3.6959E+07	5.9444E+06
Y-91	1.8762E-09	7.6504E-17	5.0628E+08	7.5433E+06
Y-92	3.3057E-09	3.4354E-19	2.2488E+06	8.8526E+07
Y-93	3.4109E-10	1.0224E-19	6.6201E+05	3.8260E+06
Zr-95	1.8538E-09	8.6290E-17	5.4700E+08	8.0431E+06
Zr-97	6.7550E-10	3.5335E-19	2.1938E+06	5.0647E+06
Nb-95	1.8481E-09	4.7263E-17	2.9960E+08	7.9714E+06
Mo-99	1.8384E-08	3.8332E-17	2.3317E+08	9.0856E+07
Tc-99m	1.8415E-08	3.5021E-18	2.1303E+07	8.3996E+07
Ru-103	2.0121E-08	6.2344E-16	3.6451E+09	8.7617E+07
Ru-105	3.4421E-10	5.1206E-20	2.9369E+05	1.5706E+07
Ru-106	8.4978E-09	2.5400E-15	1.4430E+10	3.6695E+07
Rh-105	9.7431E-09	1.1543E-17	6.6205E+07	5.2326E+07
Sb-127	1.9680E-08	7.3695E-17	3.4945E+08	9.3517E+07
Sb-129	1.5480E-09	2.7528E-19	1.2851E+06	7.6024E+07
Te-127	2.1960E-08	8.3209E-18	3.9456E+07	9.6886E+07
Te-127m	3.9847E-09	4.2244E-16	2.0032E+09	1.7192E+07
Te-129	1.3316E-08	6.3585E-19	2.9684E+06	1.1400E+08
Te-129m	1.2886E-08	4.2773E-16	1.9968E+09	5.6117E+07
Te-131m	2.8441E-08	3.5666E-17	1.6396E+08	1.6632E+08
Te-132	2.8720E-07	9.4600E-16	4.3158E+09	1.3892E+09
I-131	8.8485E-06	7.1374E-14	3.2811E+11	3.6652E+10
I-132	8.3150E-07	8.0555E-17	3.6751E+08	1.1171E+10
I-133	8.9710E-06	7.9193E-15	3.5858E+10	5.4427E+10
I-135	1.5228E-06	4.3361E-16	1.9343E+09	2.5795E+10
Xe-133	3.0035E-01	1.6046E-09	7.2655E+15	1.1759E+15
Xe-133m	7.7393E-03	1.7579E-11	7.9597E+13	3.3159E+13
Xe-135	2.7837E-02	1.0901E-11	4.8626E+13	2.7117E+14
Xe-135m	8.7613E-07	9.6244E-18	4.2933E+07	1.3321E+11
Cs-134	2.3026E-07	1.7797E-13	7.9981E+11	9.9379E+08
Cs-136	6.6695E-08	9.1001E-16	4.0295E+09	2.9594E+08
Cs-137	1.7892E-07	2.0569E-12	9.0417E+12	7.7184E+08
Ba-140	1.7643E-07	2.4099E-15	1.0366E+10	7.8347E+08
La-140	5.8763E-08	1.0572E-16	4.5477E+08	1.1806E+08
La-141	2.5374E-11	4.4867E-21	1.9163E+04	1.6368E+06
Ce-141	4.3189E-09	1.5158E-16	6.4738E+08	1.8836E+07
Ce-143	2.5908E-09	3.9013E-18	1.6430E+07	1.4726E+07
Ce-144	3.5166E-09	1.1026E-15	4.6109E+09	1.5190E+07
Pr-143	1.7531E-09	2.6035E-17	1.0964E+08	7.3996E+06
Nd-147	6.4289E-10	7.9469E-18	3.2556E+07	2.8683E+06
Np-239	3.7372E-08	1.6109E-16	4.0591E+08	1.8903E+08
Pu-238	1.0954E-11	6.3986E-16	1.6191E+09	4.7252E+04
Pu-239	1.1079E-12	1.7825E-14	4.4913E+10	4.7718E+03
Pu-240	1.9513E-12	8.5672E-16	2.1497E+09	8.4175E+03
Pu-241	4.3346E-10	4.3831E-15	1.0953E+10	1.8700E+06
Am-241	2.4701E-13	7.2101E-17	1.8017E+08	1.0611E+03
Cm-242	6.7088E-11	2.0267E-17	5.0434E+07	2.9006E+05
Cm-244	4.4543E-12	5.4419E-17	1.3431E+08	1.9216E+04

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	5.7535E+16	0.0000E+00
Elemental I (atoms)	1.4971E+09	0.0000E+00
Organic I (atoms)	3.1952E+11	0.0000E+00
Aerosols (kg)	2.3929E-12	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.6311E-16
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0570E-15
Total I (Ci)		2.0174E-05

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	8.9219E+09
Organic I (atoms)	0.0000E+00	1.0978E+12
Aerosols (kg)	0.0000E+00	8.5450E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9217E+17
Elemental I (atoms)	1.6668E+11	1.6837E+09
Organic I (atoms)	2.1072E+13	2.1285E+11
Aerosols (kg)	1.5255E-10	1.5409E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2625E+16
Elemental I (atoms)	0.0000E+00	3.1179E+10
Organic I (atoms)	0.0000E+00	3.9416E+12
Aerosols (kg)	0.0000E+00	2.8536E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.0569E+17	0.0000E+00
Elemental I (atoms)	2.1362E+10	0.0000E+00
Organic I (atoms)	2.6284E+12	0.0000E+00
Aerosols (kg)	2.0459E-11	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7323E-02	2.8028E-01	2.7041E-02
Accumulated dose (rem)	9.8231E-02	5.2419E-01	1.1681E-01

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6968E-04	7.1202E-03	9.1655E-04
Accumulated dose (rem)	1.0307E-02	2.5232E-02	1.1231E-02

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3547E-04	1.6767E-02	1.2360E-03
Accumulated dose (rem)	9.0882E-03	6.1644E-02	1.5769E-02

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	6.2657E-09	7.6136E-19	5.3942E+06	4.2574E+13
Kr-85	8.9350E-04	2.2795E-09	1.6150E+16	1.9748E+13
Rb-86	6.4970E-10	7.9848E-18	5.5913E+07	1.6903E+07
Sr-89	3.9209E-08	1.3496E-15	9.1320E+09	9.5731E+08
Sr-90	4.4300E-09	3.2476E-14	2.1731E+11	1.0426E+08
Sr-91	4.6350E-11	1.2786E-20	8.4616E+04	3.4549E+08
Y-90	2.8627E-09	5.2617E-18	3.5207E+07	2.6190E+07
Y-91	6.1654E-10	2.5140E-17	1.6637E+08	1.3980E+07
Zr-95	5.8690E-10	2.7320E-17	1.7318E+08	1.4218E+07
Zr-97	1.1528E-11	6.0304E-21	3.7439E+04	5.8819E+06
Nb-95	6.0366E-10	1.5438E-17	9.7861E+07	1.4217E+07
Mo-99	2.8228E-09	5.8856E-18	3.5802E+07	1.3557E+08
Tc-99m	2.8940E-09	5.5038E-19	3.3479E+06	1.2729E+08
Ru-103	6.2414E-09	1.9339E-16	1.1307E+09	1.5401E+08
Ru-106	2.7636E-09	8.2606E-16	4.6931E+09	6.5361E+07
Rh-105	7.8089E-10	9.2516E-19	5.3061E+06	7.0929E+07
Sb-127	3.7505E-09	1.4044E-17	6.6595E+07	1.4584E+08
Te-127	4.8682E-09	1.8447E-18	8.7471E+06	1.5744E+08
Te-127m	1.2955E-09	1.3735E-16	6.5127E+08	3.0638E+07
Te-129	3.4260E-09	1.6359E-19	7.6371E+05	1.4232E+08
Te-129m	3.9620E-09	1.3152E-16	6.1397E+08	9.8464E+07
Te-131m	1.7624E-09	2.2101E-18	1.0160E+07	2.1599E+08
Te-132	4.9619E-08	1.6344E-16	7.4564E+08	2.1221E+09
I-131	2.2386E-06	1.8057E-14	8.3008E+10	6.3266E+10
I-132	1.4247E-07	1.3802E-17	6.2969E+07	1.3301E+10
I-133	2.6644E-07	2.3521E-16	1.0650E+09	6.6969E+10
I-135	2.6208E-10	7.4626E-20	3.3290E+05	2.6683E+10
Xe-133	6.5635E-02	3.5065E-10	1.5877E+15	2.0472E+15
Xe-133m	9.8190E-04	2.2303E-12	1.0099E+13	5.1234E+13
Xe-135	3.7107E-05	1.4531E-14	6.4818E+10	2.9375E+14
Cs-134	7.5101E-08	5.8046E-14	2.6086E+11	1.7716E+09

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Cs-136	1.8612E-08	2.5394E-16	1.1245E+09	5.0555E+08
Cs-137	5.8505E-08	6.7262E-13	2.9566E+12	1.3769E+09
Ba-140	4.9012E-08	6.6949E-16	2.8798E+09	1.3368E+09
La-140	4.3089E-08	7.7521E-17	3.3346E+08	4.6049E+08
Ce-141	1.3250E-09	4.6504E-17	1.9862E+08	3.3014E+07
Ce-143	1.8676E-10	2.8122E-19	1.1843E+06	1.9486E+07
Ce-144	1.1418E-09	3.5797E-16	1.4971E+09	2.7043E+07
Pr-143	5.5288E-10	8.2104E-18	3.4576E+07	1.3302E+07
Nd-147	1.7399E-10	2.1507E-18	8.8107E+06	4.8609E+06
Np-239	5.0548E-09	2.1789E-17	5.4901E+07	2.7546E+08
Pu-238	3.5839E-12	2.0934E-16	5.2970E+08	8.4309E+04
Pu-239	3.6428E-13	5.8606E-15	1.4767E+10	8.5298E+03
Pu-240	6.3819E-13	2.8020E-16	7.0309E+08	1.5017E+04
Pu-241	1.4171E-10	1.4330E-15	3.5808E+09	3.3358E+06
Am-241	8.2649E-14	2.4125E-17	6.0284E+07	1.9055E+03
Cm-242	2.1664E-11	6.5445E-18	1.6286E+07	5.1562E+05
Cm-244	1.4564E-12	1.7793E-17	4.3914E+07	3.4280E+04

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	1.7748E+16	0.0000E+00
Elemental I (atoms)	3.4293E+08	0.0000E+00
Organic I (atoms)	7.3404E+10	0.0000E+00
Aerosols (kg)	7.7758E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.1168E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.1457E-16
Total I (Ci)		2.6478E-06

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.2327E+10
Organic I (atoms)	0.0000E+00	1.8263E+12
Aerosols (kg)	0.0000E+00	1.4987E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7272E+17
Elemental I (atoms)	2.2031E+11	2.2253E+09
Organic I (atoms)	3.2550E+13	3.2878E+11
Aerosols (kg)	2.5528E-10	2.5786E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2458E+17
Elemental I (atoms)	0.0000E+00	4.1210E+10
Organic I (atoms)	0.0000E+00	6.0886E+12
Aerosols (kg)	0.0000E+00	4.7752E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	7.7706E+17	0.0000E+00
Elemental I (atoms)	2.9514E+10	0.0000E+00
Organic I (atoms)	4.3727E+12	0.0000E+00
Aerosols (kg)	3.5883E-11	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7582E-02	7.2843E-01	5.8052E-02
Accumulated dose (rem)	1.2581E-01	1.2526E+00	1.7486E-01

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0843E-04	5.3527E-03	5.3233E-04
Accumulated dose (rem)	1.0615E-02	3.0585E-02	1.1764E-02

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3930E-04	2.0638E-02	1.3021E-03

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Accumulated dose (rem) 9.5275E-03 8.2282E-02 1.7071E-02

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	5.5370E-04	1.4126E-09	1.0008E+16	7.1423E+13
Rb-86	1.5397E-10	1.8923E-18	1.3251E+07	4.1474E+07
Sr-89	1.7083E-08	5.8802E-16	3.9788E+09	2.8804E+09
Sr-90	2.7532E-09	2.0184E-14	1.3506E+11	3.6068E+08
Y-90	2.7677E-09	5.0871E-18	3.4039E+07	2.6787E+08
Y-91	2.8214E-10	1.1505E-17	7.6134E+07	4.4903E+07
Zr-95	2.7568E-10	1.2833E-17	8.1348E+07	4.4006E+07
Nb-95	3.5006E-10	8.9521E-18	5.6748E+07	4.8270E+07
Mo-99	2.5047E-12	5.2223E-21	3.1767E+04	1.6259E+08
Ru-103	2.4559E-09	7.6094E-17	4.4490E+08	4.4649E+08
Ru-106	1.6383E-09	4.8970E-16	2.7821E+09	2.2174E+08
Sb-127	2.1644E-11	8.1048E-20	3.8431E+05	1.9505E+08
Te-127	7.3122E-10	2.7707E-19	1.3138E+06	2.7170E+08
Te-127m	6.9652E-10	7.3842E-17	3.5015E+08	1.0102E+08
Te-129	1.2474E-09	5.9566E-20	2.7807E+05	2.5918E+08
Te-129m	1.4426E-09	4.7887E-17	2.2355E+08	2.7790E+08
Te-132	1.2239E-10	4.0313E-19	1.8392E+06	2.6798E+09
I-131	1.4821E-07	1.1955E-15	5.4957E+09	1.1706E+11
I-132	3.5141E-10	3.4044E-20	1.5532E+05	1.4962E+10
Xe-133	1.3299E-03	7.1049E-12	3.2171E+13	3.1880E+15
Xe-133m	1.8902E-07	4.2935E-16	1.9441E+09	5.8953E+13
Cs-134	4.5649E-08	3.5282E-14	1.5856E+11	6.0724E+09
Cs-136	2.9275E-09	3.9943E-17	1.7687E+08	1.1062E+09
Cs-137	3.6363E-08	4.1805E-13	1.8376E+12	4.7634E+09
Ba-140	7.4154E-09	1.0129E-16	4.3571E+08	2.8959E+09
La-140	8.6138E-09	1.5497E-17	6.6661E+07	2.1758E+09
Ce-141	4.7379E-10	1.6628E-17	7.1019E+07	9.2551E+07
Ce-144	6.6714E-10	2.0917E-16	8.7475E+08	9.1207E+07
Pr-143	9.4596E-11	1.4048E-18	5.9159E+06	3.2046E+07
Nd-147	2.0983E-11	2.5938E-19	1.0626E+06	9.9610E+06
Np-239	1.4942E-12	6.4407E-21	1.6229E+04	3.1717E+08
Pu-238	2.2371E-12	1.3067E-16	3.3064E+08	2.9219E+05
Pu-239	2.2762E-13	3.6621E-15	9.2275E+09	2.9699E+04
Pu-240	3.9735E-13	1.7446E-16	4.3775E+08	5.1989E+04
Pu-241	8.7934E-11	8.8919E-16	2.2219E+09	1.1532E+07
Am-241	6.1483E-14	1.7947E-17	4.4846E+07	7.1418E+03
Cm-242	1.2075E-11	3.6478E-18	9.0776E+06	1.7062E+06
Cm-244	9.0417E-13	1.1046E-17	2.7264E+07	1.1853E+05

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.0040E+16	0.0000E+00
Elemental I (atoms)	2.2400E+07	0.0000E+00
Organic I (atoms)	4.7948E+09	0.0000E+00
Aerosols (kg)	4.8025E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3738E-17
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.3739E-17
Total I (Ci)		1.4856E-07

Time (h) = 720.0000	Deposition Recirculating	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.8779E+10
Organic I (atoms)	0.0000E+00	3.2075E+12
Aerosols (kg)	0.0000E+00	5.0430E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Time (h) = 720.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2030E+18
Elemental I (atoms)	3.3093E+11	3.3427E+09
Organic I (atoms)	5.6228E+13	5.6796E+11
Aerosols (kg)	8.6399E-10	8.7272E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Time (h) = 720.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0796E+17
Elemental I (atoms)	0.0000E+00	6.1902E+10
Organic I (atoms)	0.0000E+00	1.0518E+13
Aerosols (kg)	0.0000E+00	1.6162E-10

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	2.5972E+18	0.0000E+00
Elemental I (atoms)	4.4964E+10	0.0000E+00
Organic I (atoms)	7.6798E+12	0.0000E+00
Aerosols (kg)	1.2075E-10	0.0000E+00

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I-131 Summary

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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4411E-02
0.017	1.8470E+05	0.0000E+00	3.1089E+01
0.083	9.2044E+05	0.0000E+00	7.7298E+02
0.333	3.6817E+06	0.0000E+00	1.0901E+03
0.500	6.8012E+05	0.0000E+00	1.2253E+03
0.750	9.4093E+05	0.0000E+00	1.3469E+03
1.000	9.4889E+05	0.0000E+00	1.4765E+03
1.400	9.5870E+05	0.0000E+00	1.6855E+03
1.700	9.6603E+05	0.0000E+00	1.8436E+03
2.000	9.7334E+05	0.0000E+00	2.0029E+03
2.250	5.9162E+04	4.0983E+04	2.0447E+03
2.400	6.0403E+04	3.7668E+04	2.0515E+03
2.700	6.0349E+04	3.7597E+04	2.0651E+03
3.000	6.0272E+04	3.7549E+04	2.0787E+03
3.300	6.0196E+04	3.7501E+04	2.0923E+03
3.600	6.0119E+04	3.7454E+04	2.1059E+03
3.900	6.0043E+04	3.7406E+04	2.1195E+03
4.000	6.0017E+04	3.7390E+04	2.1240E+03
4.300	5.9941E+04	3.7343E+04	2.1376E+03
4.600	5.9865E+04	3.7295E+04	2.1513E+03
4.900	5.9789E+04	3.7248E+04	2.1649E+03
5.200	5.9713E+04	3.7200E+04	2.1786E+03
5.500	5.9637E+04	3.7153E+04	2.1922E+03
5.800	5.9561E+04	3.7106E+04	2.2059E+03
6.100	5.9485E+04	3.7058E+04	2.2196E+03
6.400	5.9409E+04	3.7011E+04	2.2333E+03
6.700	5.9334E+04	3.6964E+04	2.2470E+03
7.000	5.9258E+04	3.6917E+04	2.2607E+03
7.300	5.9183E+04	3.6870E+04	2.2744E+03
7.600	5.9107E+04	3.6823E+04	2.2881E+03
7.900	5.9032E+04	3.6776E+04	2.3018E+03
8.000	5.9007E+04	3.6761E+04	2.3064E+03
8.300	5.8932E+04	3.6714E+04	2.3201E+03
8.600	5.8857E+04	3.6667E+04	2.3339E+03
8.900	5.8782E+04	3.6621E+04	2.3476E+03
9.200	5.8707E+04	3.6574E+04	2.3613E+03
9.500	5.8632E+04	3.6527E+04	2.3751E+03
9.800	5.8558E+04	3.6481E+04	2.3888E+03
10.100	5.8483E+04	3.6434E+04	2.4025E+03
10.400	5.8409E+04	3.6388E+04	2.4162E+03
16.000	5.7035E+04	3.5532E+04	2.6708E+03
24.000	5.5126E+04	3.4343E+04	3.0237E+03
96.000	4.1555E+04	2.5888E+04	3.8364E+03
720.000	3.5475E+03	2.2101E+03	1.6380E+03

	Environment	CR	MSIV Failed Inboard V
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	0.0000E+00	0.0000E+00	2.2613E-04
0.017	0.0000E+00	0.0000E+00	2.0418E-01
0.083	0.0000E+00	0.0000E+00	5.0649E+00
0.333	0.0000E+00	0.0000E+00	8.0334E+01
0.500	0.0000E+00	0.0000E+00	1.1108E+02
0.750	0.0000E+00	0.0000E+00	1.3718E+02
1.000	0.0000E+00	0.0000E+00	1.6444E+02
1.400	0.0000E+00	0.0000E+00	2.0699E+02
1.700	0.0000E+00	0.0000E+00	2.3807E+02
2.000	0.0000E+00	0.0000E+00	2.6844E+02
2.250	3.1343E-02	3.6060E-06	2.6808E+02
2.400	4.2886E-02	4.7771E-06	2.6499E+02
2.700	6.5744E-02	6.9116E-06	2.5896E+02

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3.000	8.8573E-02	8.8237E-06	2.5311E+02
3.300	1.1137E-01	1.0536E-05	2.4744E+02
3.600	1.3414E-01	1.2070E-05	2.4195E+02
3.900	1.5688E-01	1.3443E-05	2.3663E+02
4.000	1.6446E-01	1.3868E-05	2.3490E+02
4.300	1.8716E-01	1.5052E-05	2.2980E+02
4.600	2.0984E-01	1.6111E-05	2.2486E+02
4.900	2.3248E-01	1.7059E-05	2.2007E+02
5.200	2.5510E-01	1.7906E-05	2.1543E+02
5.500	2.7768E-01	1.8662E-05	2.1094E+02
5.800	3.0024E-01	1.9338E-05	2.0659E+02
6.100	3.2277E-01	1.9941E-05	2.0237E+02
6.400	3.4528E-01	2.0479E-05	1.9828E+02
6.700	3.6775E-01	2.0959E-05	1.9432E+02
7.000	3.9019E-01	2.1386E-05	1.9048E+02
7.300	4.1261E-01	2.1766E-05	1.8676E+02
7.600	4.3500E-01	2.2103E-05	1.8315E+02
7.900	4.5735E-01	2.2403E-05	1.7965E+02
8.000	4.6480E-01	2.2495E-05	1.7851E+02
8.300	4.8712E-01	2.1143E-05	1.7516E+02
8.600	5.0941E-01	1.9928E-05	1.7191E+02
8.900	5.3168E-01	1.8836E-05	1.6877E+02
9.200	5.5391E-01	1.7856E-05	1.6571E+02
9.500	5.7612E-01	1.6974E-05	1.6276E+02
9.800	5.9830E-01	1.6182E-05	1.5989E+02
10.100	6.2045E-01	1.5470E-05	1.5711E+02
10.400	6.4257E-01	1.4830E-05	1.5442E+02
16.000	1.0500E+00	9.8418E-06	1.1678E+02
24.000	1.6151E+00	8.8485E-06	8.9249E+01
96.000	3.7931E+00	2.2386E-06	5.3722E+01
720.000	9.8648E+00	1.4821E-07	4.5572E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volumn I-131 (Curies)
0.000	4.3473E-09	2.2612E-04	5.1186E-09
0.017	1.1791E-04	2.0416E-01	1.3883E-04
0.083	1.4542E-02	5.0623E+00	1.7126E-02
0.333	9.1136E-01	8.0171E+01	1.0739E+00
0.500	2.5825E+00	1.1062E+02	3.0447E+00
0.750	5.5533E+00	1.3616E+02	6.5531E+00
1.000	9.0386E+00	1.6277E+02	1.0675E+01
1.400	1.5597E+01	2.0407E+02	1.8443E+01
1.700	2.1223E+01	2.3405E+02	2.5117E+01
2.000	2.7388E+01	2.6320E+02	3.2436E+01
2.250	3.2607E+01	2.6177E+02	3.8642E+01
2.400	3.5545E+01	2.5808E+02	4.2141E+01
2.700	4.0980E+01	2.5088E+02	4.8625E+01
3.000	4.5864E+01	2.4394E+02	5.4463E+01
3.300	5.0239E+01	2.3726E+02	5.9705E+01
3.600	5.4146E+01	2.3082E+02	6.4395E+01
3.900	5.7623E+01	2.2461E+02	6.8576E+01
4.000	5.8692E+01	2.2260E+02	6.9863E+01
4.300	6.1648E+01	2.1669E+02	7.3425E+01
4.600	6.4250E+01	2.1101E+02	7.6564E+01
4.900	6.6527E+01	2.0553E+02	7.9315E+01
5.200	6.8507E+01	2.0025E+02	8.1707E+01
5.500	7.0213E+01	1.9516E+02	8.3769E+01
5.800	7.1670E+01	1.9026E+02	8.5529E+01
6.100	7.2897E+01	1.8553E+02	8.7011E+01
6.400	7.3916E+01	1.8098E+02	8.8238E+01
6.700	7.4743E+01	1.7659E+02	8.9232E+01
7.000	7.5397E+01	1.7237E+02	9.0012E+01
7.300	7.5892E+01	1.6829E+02	9.0597E+01
7.600	7.6243E+01	1.6437E+02	9.1005E+01
7.900	7.6463E+01	1.6059E+02	9.1251E+01
8.000	7.6509E+01	1.5936E+02	9.1300E+01
8.300	7.6574E+01	1.5576E+02	9.1353E+01
8.600	7.6535E+01	1.5228E+02	9.1277E+01
8.900	7.6402E+01	1.4894E+02	9.1085E+01
9.200	7.6186E+01	1.4572E+02	9.0788E+01
9.500	7.5894E+01	1.4261E+02	9.0396E+01
9.800	7.5534E+01	1.3961E+02	8.9920E+01
10.100	7.5115E+01	1.3672E+02	8.9368E+01
10.400	7.4642E+01	1.3394E+02	8.8749E+01
16.000	6.1586E+01	9.6912E+01	7.1892E+01
24.000	4.5455E+01	7.2786E+01	5.1495E+01
96.000	2.4096E+01	4.5412E+01	2.7244E+01
720.000	1.0148E+00	3.8665E+00	2.3107E+00

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 Cumulative Dose Summary
 #####

Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.083	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.333	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.500	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.750	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.400	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.700	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.250	5.2424E-03	3.6745E-03	7.1350E-04	5.0011E-04	9.3719E-05	2.8507E-05
2.400	7.1358E-03	5.7991E-03	9.7120E-04	7.8927E-04	2.0582E-04	7.5252E-05
2.700	1.0876E-02	9.8744E-03	1.4803E-03	1.3439E-03	5.1762E-04	2.3539E-04
3.000	1.4600E-02	1.3710E-02	1.9870E-03	1.8659E-03	9.3544E-04	4.8041E-04
3.300	1.8306E-02	1.7311E-02	2.4914E-03	2.3561E-03	1.4475E-03	7.9706E-04
3.600	2.1995E-02	2.0691E-02	2.9935E-03	2.8161E-03	2.0430E-03	1.1713E-03
3.900	2.5667E-02	2.3864E-02	3.4933E-03	3.2479E-03	2.7126E-03	1.5900E-03
4.000	2.6887E-02	2.4878E-02	3.6594E-03	3.3859E-03	2.9507E-03	1.7374E-03
4.300	3.0538E-02	2.7797E-02	4.1562E-03	3.7833E-03	3.7057E-03	2.1980E-03
4.600	3.4172E-02	3.0543E-02	4.6509E-03	4.1570E-03	4.5162E-03	2.6793E-03
4.900	3.7790E-02	3.3129E-02	5.1434E-03	4.5089E-03	5.3757E-03	3.1737E-03
5.200	4.1393E-02	3.5566E-02	5.6337E-03	4.8406E-03	6.2782E-03	3.6750E-03
5.500	4.4981E-02	3.7866E-02	6.1220E-03	5.1536E-03	7.2187E-03	4.1782E-03
5.800	4.8554E-02	4.0039E-02	6.6083E-03	5.4494E-03	8.1926E-03	4.6792E-03
6.100	5.2112E-02	4.2094E-02	7.0926E-03	5.7291E-03	9.1957E-03	5.1748E-03
6.400	5.5656E-02	4.4041E-02	7.5749E-03	5.9940E-03	1.0224E-02	5.6625E-03
6.700	5.9185E-02	4.5886E-02	8.0552E-03	6.2452E-03	1.1275E-02	6.1404E-03
7.000	6.2700E-02	4.7637E-02	8.5336E-03	6.4835E-03	1.2346E-02	6.6068E-03
7.300	6.6201E-02	4.9301E-02	9.0101E-03	6.7100E-03	1.3433E-02	7.0608E-03
7.600	6.9689E-02	5.0884E-02	9.4848E-03	6.9254E-03	1.4535E-02	7.5015E-03
7.900	7.3163E-02	5.2390E-02	9.9576E-03	7.1305E-03	1.5649E-02	7.9285E-03
8.000	7.4318E-02	5.2877E-02	1.0115E-02	7.1967E-03	1.6023E-02	8.0678E-03
8.300	7.7774E-02	5.4291E-02	1.0278E-02	7.3207E-03	1.7111E-02	8.4679E-03
8.600	8.1218E-02	5.5641E-02	1.0440E-02	7.4388E-03	1.8132E-02	8.8362E-03
8.900	8.4648E-02	5.6930E-02	1.0602E-02	7.5516E-03	1.9093E-02	9.1737E-03
9.200	8.8065E-02	5.8164E-02	1.0763E-02	7.6592E-03	2.0001E-02	9.4826E-03
9.500	9.1470E-02	5.9346E-02	1.0924E-02	7.7621E-03	2.0860E-02	9.7654E-03
9.800	9.4863E-02	6.0478E-02	1.1084E-02	7.8605E-03	2.1675E-02	1.0025E-02
10.100	9.8243E-02	6.1565E-02	1.1243E-02	7.9548E-03	2.2451E-02	1.0263E-02
10.400	1.0161E-01	6.2609E-02	1.1402E-02	8.0452E-03	2.3192E-02	1.0483E-02
16.000	1.6257E-01	7.7179E-02	1.4277E-02	9.2856E-03	3.3585E-02	1.2971E-02
24.000	2.4391E-01	8.9769E-02	1.8112E-02	1.0315E-02	4.4877E-02	1.4533E-02
96.000	5.2419E-01	1.1681E-01	2.5232E-02	1.1231E-02	6.1644E-02	1.5769E-02
720.000	1.2526E+00	1.7486E-01	3.0585E-02	1.1764E-02	8.2282E-02	1.7071E-02

 Worst Two-Hour Doses
 #####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
2.0	2.3786E-02	2.6887E-02	2.4878E-02

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Attachment 13.8 – RADTRAD Output File “NMP2CL11.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:49:35
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2CL11.psf
Inventory file  = c:\radtrad3.03\nmp2\nmp2.nif
Release file    = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Drywell Spray Cutoff Time - Containment Leakage from Drywell & Wetwell (DW+WW)
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
6
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
0
Compartment 4:
RB
3
1.9400E+06
0
0
0
0
0
0
Compartment 5:
Env
2
0.0000E+00
0
```

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```

0
0
0
0
Compartment 6:
CR
1
3.8100E+05
0
0
1
0
0
Pathways:
13
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW to RB
1
4
2
Pathway 4:
WW to RB
2
4
2
Pathway 5:
CR Filtered Intake
5
6
2
Pathway 6:
CR Unfiltered Inleakage
5
6
2
Pathway 7:
CR Exhaust to Environment
6
5
2
Pathway 8:
Drawdown Release from RB to Env
4
5
2
Pathway 9:
RB Exhaust to Environment
4
5
2
Pathway 10:
DW to Dummy (Equivalent Bypass Leakages)
1
3
2
Pathway 11:
WW to Dummy (Equivalent Bypass Leakage)
2
3
2
Pathway 12:
DW to Dummy (MSIV Failed Pathway 7)
1
3
2
Pathway 13:
DW to Dummy (Intact MSIV Pathway 8)
1

```

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```

3
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
6
Compartment 1:
1
1
1
0.0000E+00
10
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2000E+00 1.9800E+01
2.2500E+00 1.9800E+01
2.3000E+00 1.9800E+01
2.3500E+00 1.9800E+01
2.4000E+00 1.9800E+01
2.4500E+00 1.9800E+01
2.5000E+00 1.9800E+01
7.2000E+02 0.0000E+00
1
0.0000E+00
10
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2000E+00 1.9800E+01
2.2500E+00 1.9800E+01
2.3000E+00 1.9800E+01
2.3500E+00 1.9800E+01
2.4000E+00 1.9800E+01
2.4500E+00 1.9800E+01
2.5000E+00 1.9800E+01
7.2000E+02 0.0000E+00
1
0.0000E+00
0
0
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0

```

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0
0
Compartment 4:

0
1
0
0
0
0
0
0
0
0
0

Compartment 5:

0
1
0
0
0
0
0
0
0
0
0

Compartment 6:

0
1
0
0
0
0
1
1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0
0

Pathways:

13

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00 0.0000E+00

2.0000E+00 8.9710E+04

7.2000E+02 0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00 0.0000E+00

2.0000E+00 1.4400E+05

7.2000E+02 0.0000E+00

0

Pathway 3:

0
0
0
0

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```

0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
0
1
2
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0

```

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0
0
0
Pathway 8:
0
0
0
0
0
1
2
0.0000E+00 2.6700E+03 0.0000E+00 0.0000E+00 0.0000E+00
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
1.0000E+00 4.4000E+03 9.9000E+01 9.9000E+01 9.9000E+01
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00 2.4930E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.2470E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00 1.1200E-02 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 5.6000E-03 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
0
1
3

CALCULATION NO. H21C-106			REV. No. 4		PAGE NO. 456
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00	
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Pathway 13:					
0					
0					
0					
0					
0					
1					
3					
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00	
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Dose Locations:					
3					
Location 1:					
EAB					
5					
1					
3					
0.0000E+00	1.1900E-04				
1.0000E+00	2.9600E-05				
7.2000E+02	0.0000E+00				
1					
2					
0.0000E+00	3.5000E-04				
7.2000E+02	3.5000E-04				
0					
Location 2:					
LPZ					
5					
1					
6					
0.0000E+00	1.6200E-05				
1.0000E+00	1.4200E-05				
8.0000E+00	5.4100E-07				
2.4000E+01	2.3100E-07				
9.6000E+01	7.6500E-08				
7.2000E+02	0.0000E+00				
1					
4					
0.0000E+00	3.5000E-04				
8.0000E+00	1.8000E-04				
2.4000E+01	2.3000E-04				
7.2000E+02	2.3000E-04				
0					
Location 3:					
CR					
6					
0					
1					
2					
0.0000E+00	3.5000E-04				
7.2000E+02	3.5000E-04				
1					
4					
0.0000E+00	1.0000E+00				
2.4000E+01	6.0000E-01				
9.6000E+01	4.0000E-01				
7.2000E+02	0.0000E+00				
Effective Volume Location:					
1					
7					
0.0000E+00	1.4700E-03				
1.0000E+00	8.0300E-05				

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2.0000E+00 4.4800E-05
8.0000E+00 1.6800E-05
2.4000E+01 1.2000E-05
9.6000E+01 8.8300E-06
7.2000E+02 0.0000E+00

Simulation Parameters:

7

0.0000E+00 1.0000E-02
1.0000E+00 1.0000E-01
2.0000E+00 5.0000E-01
8.0000E+00 1.0000E+00
2.4000E+01 2.0000E+00
9.6000E+01 5.0000E+00
7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o574

1

1

1

0

0

End of Scenario File

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:49:35
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 6

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW to RB

Exit Pathway Number 10: DW to Dummy (Equivalent Bypass Leakages)

Exit Pathway Number 12: DW to Dummy (MSIV Failed Pathway 7)

Exit Pathway Number 13: DW to Dummy (Intact MSIV Pathway 8)

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW to RB

Exit Pathway Number 11: WW to Dummy (Equivalent Bypass Leakage)

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 10: DW to Dummy (Equivalent Bypass Leakages)

Inlet Pathway Number 11: WW to Dummy (Equivalent Bypass Leakage)

Inlet Pathway Number 12: DW to Dummy (MSIV Failed Pathway 7)

Inlet Pathway Number 13: DW to Dummy (Intact MSIV Pathway 8)

Compartment number 4

Name: RB

Compartment volume = 1.9400E+06 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 4

Inlet Pathway Number 3: DW to RB

Inlet Pathway Number 4: WW to RB

Exit Pathway Number 8: Drawdown Release from RB to Env

Exit Pathway Number 9: RB Exhaust to Environment

Compartment number 5

Name: Env

Compartment type is Environment

Pathways into and out of compartment 5

Inlet Pathway Number 7: CR Exhaust to Environment

Inlet Pathway Number 8: Drawdown Release from RB to Env

Inlet Pathway Number 9: RB Exhaust to Environment

Exit Pathway Number 5: CR Filtered Intake

Exit Pathway Number 6: CR Unfiltered Inleakage

Compartment number 6

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

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Pathways into and out of compartment 6

Inlet Pathway Number 5: CR Filtered Intake

Inlet Pathway Number 6: CR Unfiltered Inleakage

Exit Pathway Number 7: CR Exhaust to Environment

Total number of pathways = 13

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:49:35
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2000E+00	1.9800E+01
2.2500E+00	1.9800E+01
2.3000E+00	1.9800E+01
2.3500E+00	1.9800E+01
2.4000E+00	1.9800E+01
2.4500E+00	1.9800E+01
2.5000E+00	1.9800E+01

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7.2000E+02 0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2000E+00	1.9800E+01
2.2500E+00	1.9800E+01
2.3000E+00	1.9800E+01
2.3500E+00	1.9800E+01
2.4000E+00	1.9800E+01
2.4500E+00	1.9800E+01
2.5000E+00	1.9800E+01
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: RB

Compartment number 5: Env

Compartment number 6: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate	Filter Efficiencies (%)
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	(cfm)	Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: CR Unfiltered Inleakage

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: Drawdown Release from RB to Env

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	4.4000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Dummy (Equivalent Bypass Leakages)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.2470E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: WW to Dummy (Equivalent Bypass Leakage)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.6000E-03	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: DW to Dummy (MSIV Failed Pathway 7)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: DW to Dummy (Intact MSIV Pathway 8)

Pathway Filter: Removal Data

Time (hr)	Flow Rate	Filter Efficiencies (%)		
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	(cfm)	Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location LPZ is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
1.0000E+00	1.4200E-05
8.0000E+00	5.4100E-07
2.4000E+01	2.3100E-07
9.6000E+01	7.6500E-08
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	2.3000E-04

Location CR is in compartment 6

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:49:35
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	
Accumulated dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.7588E-07	1.2479E-04	6.1570E-06	
Accumulated dose (rem)	8.7588E-07	1.2479E-04	6.1570E-06	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	
Accumulated dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	

DW Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m	2.7332E+04	1.3464E-06	9.7692E+18	4.4085E+16	
Kr-85m	6.1772E+04	7.5061E-06	5.3180E+19	9.9487E+16	
Kr-85	3.1305E+03	7.9867E-03	5.6585E+22	5.0366E+15	
Kr-87	1.2382E+05	4.3712E-06	3.0258E+19	1.9995E+17	
Kr-88	1.6908E+05	1.3484E-05	9.2275E+19	2.7248E+17	
Rb-86	4.2509E+02	5.2243E-06	3.6583E+19	6.8391E+14	
Rb-88	1.7112E+05	1.4175E-06	9.7006E+18	2.7286E+17	
I-131	1.8470E+05	1.4898E-03	6.8487E+21	2.9716E+17	
I-132	2.6793E+05	2.5957E-05	1.1842E+20	4.3174E+17	
I-133	3.8278E+05	3.3791E-04	1.5300E+21	6.1599E+17	
I-134	4.3360E+05	1.6254E-05	7.3047E+19	7.0138E+17	
I-135	3.6131E+05	1.0288E-04	4.5895E+20	5.8172E+17	
Xe-133	3.8300E+05	2.0461E-03	9.2647E+21	6.1617E+17	
Xe-133m	1.1748E+04	2.6684E-05	1.2082E+20	1.8900E+16	
Xe-135	1.6123E+05	6.3134E-05	2.8163E+20	2.5902E+17	
Xe-135m	7.8357E+04	8.6076E-07	3.8397E+18	1.2587E+17	
Xe-138	3.2721E+05	3.4101E-06	1.4881E+19	5.3714E+17	
Cs-134	4.2510E+04	3.2856E-02	1.4766E+23	6.8392E+16	
Cs-136	1.2970E+04	1.7696E-04	7.8360E+20	2.0867E+16	
Cs-137	3.3003E+04	3.7942E-01	1.6678E+24	5.3097E+16	

DW Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	6.6456E+22	0.0000E+00	
Elemental I (atoms)	4.3791E+20	0.0000E+00	
Organic I (atoms)	1.3544E+19	0.0000E+00	
Aerosols (kg)	4.1434E-01	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.0090E-05	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.8536E-05	
Total I (Ci)		1.6303E+06	

DW to WW Transport Group Inventory:

Time (h) =	0.0167	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 0.0167 Leakage Transport

Noble gases (atoms) 0.0000E+00
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

DW to RB Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1179E+19
Elemental I (atoms)	0.0000E+00	7.3678E+16
Organic I (atoms)	0.0000E+00	2.2787E+15
Aerosols (kg)	0.0000E+00	6.9695E-05

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7109E+16
Elemental I (atoms)	0.0000E+00	1.7868E+14
Organic I (atoms)	0.0000E+00	5.5261E+12
Aerosols (kg)	0.0000E+00	1.6902E-07

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3509E+16
Elemental I (atoms)	0.0000E+00	4.8450E+14
Organic I (atoms)	0.0000E+00	1.4984E+13
Aerosols (kg)	0.0000E+00	4.5831E-07

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3509E+16
Elemental I (atoms)	0.0000E+00	4.8450E+14
Organic I (atoms)	0.0000E+00	1.4984E+13
Aerosols (kg)	0.0000E+00	4.5831E-07

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6682E-04	1.1255E-01	5.5301E-03
Accumulated dose (rem)		7.7325E-04	1.1347E-01	5.5753E-03

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0439E-04	1.5322E-02	7.5284E-04
Accumulated dose (rem)		1.0527E-04	1.5447E-02	7.5900E-04

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2185E-06	1.3040E-03	5.6416E-05
Accumulated dose (rem)		1.2226E-06	1.3129E-03	5.6799E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-83m		1.3290E+05	6.5470E-06	4.7502E+19	8.2574E+17
Kr-85m		3.0475E+05	3.7032E-05	2.6236E+20	1.8815E+18
Kr-85		1.5605E+04	3.9811E-02	2.8205E+23	9.5905E+16
Kr-87		5.9518E+05	2.1012E-05	1.4545E+20	3.7168E+18
Kr-88		8.2920E+05	6.6129E-05	4.5254E+20	5.1327E+18
Rb-86		2.1187E+03	2.6039E-05	1.8233E+20	1.3022E+16
Rb-88		8.5181E+05	7.0563E-06	4.8288E+19	5.1831E+18
I-131		9.2044E+05	7.4244E-03	3.4131E+22	5.6576E+18
I-132		1.3216E+06	1.2804E-04	5.8413E+20	8.1650E+18
I-133		1.9038E+06	1.6806E-03	7.6097E+21	1.1712E+19

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I-134	2.0505E+06	7.6863E-05	3.4543E+20	1.2897E+19
I-135	1.7885E+06	5.0927E-04	2.2718E+21	1.1026E+19
Xe-133	1.9091E+06	1.0199E-02	4.6181E+22	1.1733E+19
Xe-133m	5.8556E+04	1.3300E-04	6.0223E+20	3.5987E+17
Xe-135	8.0921E+05	3.1687E-04	1.4135E+21	4.9544E+18
Xe-135m	3.7105E+05	4.0760E-06	1.8182E+19	2.3106E+18
Xe-138	1.3420E+06	1.3986E-05	6.1033E+19	8.9987E+18
Cs-134	2.1190E+05	1.6377E-01	7.3602E+23	1.3023E+18
Cs-136	6.4640E+04	8.8197E-04	3.9054E+21	3.9730E+17
Cs-137	1.6451E+05	1.8913E+00	8.3136E+24	1.0111E+18

DW Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)	3.3124E+23	0.0000E+00	
Elemental I (atoms)	2.1797E+21	0.0000E+00	
Organic I (atoms)	6.7412E+19	0.0000E+00	
Aerosols (kg)	2.0653E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4982E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9154E-04
Total I (Ci)			7.9848E+06

DW to WW Transport Group Inventory:

Time (h) = 0.0833 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0833 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7799E+20
Elemental I (atoms)	0.0000E+00	1.8305E+18
Organic I (atoms)	0.0000E+00	5.6615E+16
Aerosols (kg)	0.0000E+00	1.7333E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.7415E+17
Elemental I (atoms)	0.0000E+00	4.4392E+15
Organic I (atoms)	0.0000E+00	1.3730E+14
Aerosols (kg)	0.0000E+00	4.2033E-06

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8280E+18
Elemental I (atoms)	0.0000E+00	1.2037E+16
Organic I (atoms)	0.0000E+00	3.7229E+14
Aerosols (kg)	0.0000E+00	1.1398E-05

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8280E+18
Elemental I (atoms)	0.0000E+00	1.2037E+16
Organic I (atoms)	0.0000E+00	3.7229E+14
Aerosols (kg)	0.0000E+00	1.1398E-05

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.3503E-03	1.1707E+00	5.6894E-02
Accumulated dose (rem)		8.1235E-03	1.2841E+00	6.2469E-02

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LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0006E-03	1.5937E-01	7.7452E-03	
Accumulated dose (rem)	1.1059E-03	1.7482E-01	8.5042E-03	

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0934E-05	8.2917E-02	3.5837E-03	
Accumulated dose (rem)	7.2157E-05	8.4230E-02	3.6405E-03	

DW Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
Kr-83m		4.8470E+05	2.3878E-05	1.7325E+20	1.1548E+19
Kr-85m		1.1737E+06	1.4262E-04	1.0105E+21	2.7275E+19
Kr-85		6.2469E+04	1.5937E-01	1.1291E+24	1.4265E+18
Kr-87		2.0791E+06	7.3400E-05	5.0808E+20	5.0531E+19
Kr-88		3.1230E+06	2.4906E-04	1.7044E+21	7.3317E+19
Rb-86		8.4783E+03	1.0420E-04	7.2964E+20	1.9364E+17
Rb-88		3.3380E+06	2.7651E-05	1.8923E+20	7.6240E+19
I-131		3.6817E+06	2.9697E-02	1.3652E+23	8.4105E+19
I-132		5.0919E+06	4.9330E-04	2.2506E+21	1.1839E+20
I-133		7.5581E+06	6.6720E-03	3.0210E+22	1.7324E+20
I-134		6.7362E+06	2.5251E-04	1.1348E+21	1.6849E+20
I-135		6.9744E+06	1.9860E-03	8.8591E+21	1.6116E+20
Xe-133		7.6425E+06	4.0829E-02	1.8487E+23	1.7452E+20
Xe-133m		2.3437E+05	5.3234E-04	2.4104E+21	5.3521E+18
Xe-135		3.3173E+06	1.2990E-03	5.7946E+21	7.4903E+19
Xe-135m		1.2818E+06	1.4081E-05	6.2813E+19	3.0850E+19
Xe-138		2.5832E+06	2.6922E-05	1.1748E+20	8.4386E+19
Cs-134		8.4826E+05	6.5562E-01	2.9464E+24	1.9371E+19
Cs-136		2.5863E+05	3.5288E-03	1.5626E+22	5.9074E+18
Cs-137		6.5856E+05	7.5712E+00	3.3281E+25	1.5039E+19

DW Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)	1.3258E+24	0.0000E+00	
Elemental I (atoms)	8.6802E+21	0.0000E+00	
Organic I (atoms)	2.6846E+20	0.0000E+00	
Aerosols (kg)	8.2677E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.9727E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			7.5897E-04
Total I (Ci)			3.0042E+07

DW to WW Transport Group Inventory:

Time (h) = 0.3333 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3333 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway
Time (h) =	0.3333
	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.8961E+20
Elemental I (atoms)	0.0000E+00 2.5629E+18
Organic I (atoms)	0.0000E+00 7.9264E+16
Aerosols (kg)	0.0000E+00 2.4293E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway
Time (h) =	0.3333
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.0793E+19
Elemental I (atoms)	0.0000E+00 7.0829E+16

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Organic I (atoms)	0.0000E+00	2.1906E+15
Aerosols (kg)	0.0000E+00	6.7301E-05

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9266E+19
Elemental I (atoms)	0.0000E+00	1.9206E+17
Organic I (atoms)	0.0000E+00	5.9400E+15
Aerosols (kg)	0.0000E+00	1.8249E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9266E+19
Elemental I (atoms)	0.0000E+00	1.9206E+17
Organic I (atoms)	0.0000E+00	5.9400E+15
Aerosols (kg)	0.0000E+00	1.8249E-04

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8173E-03	1.0011E+00	4.8186E-02
Accumulated dose (rem)	1.3941E-02	2.2853E+00	1.1065E-01

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.9194E-04	1.3629E-01	6.5597E-03
Accumulated dose (rem)	1.8978E-03	3.1110E-01	1.5064E-02

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1051E-04	1.4277E-01	6.1633E-03
Accumulated dose (rem)	1.8267E-04	2.2700E-01	9.8038E-03

DW Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	6.8332E+05	3.3662E-05	2.4424E+20	2.4720E+19
Kr-85m	1.7159E+06	2.0850E-04	1.4772E+21	5.9791E+19
Kr-85	9.3713E+04	2.3908E-01	1.6939E+24	3.1810E+18
Kr-87	2.8481E+06	1.0055E-04	6.9599E+20	1.0618E+20
Kr-88	4.4982E+06	3.5873E-04	2.4549E+21	1.5915E+20
Rb-86	1.5498E+03	1.9047E-05	1.3338E+20	2.6450E+17
Rb-88	9.9723E+05	8.2609E-06	5.6532E+19	1.0720E+20
I-131	6.8012E+05	5.4860E-03	2.5219E+22	1.1498E+20
I-132	9.5783E+05	9.2794E-05	4.2335E+20	1.6121E+20
I-133	1.3891E+06	1.2263E-03	5.5525E+21	2.3651E+20
I-134	1.0912E+06	4.0906E-05	1.8384E+20	2.2240E+20
I-135	1.2667E+06	3.6068E-04	1.6089E+21	2.1930E+20
Xe-133	1.1459E+07	6.1217E-02	2.7719E+23	3.8911E+20
Xe-133m	3.5111E+05	7.9752E-04	3.6111E+21	1.1930E+19
Xe-135	4.9804E+06	1.9503E-03	8.6998E+21	1.6817E+20
Xe-135m	1.4414E+06	1.5834E-05	7.0631E+19	6.2134E+19
Xe-138	2.3783E+06	2.4786E-05	1.0816E+20	1.4087E+20
Cs-134	1.5510E+05	1.1987E-01	5.3873E+23	2.6461E+19
Cs-136	4.7271E+04	6.4498E-04	2.8560E+21	8.0688E+18
Cs-137	1.2041E+05	1.3844E+00	6.0852E+24	2.0543E+19

DW Transport Group Inventory:

Time (h) = 0.5000	Atmosphere	Sump	
Noble gases (atoms)	1.9884E+24	0.0000E+00	
Elemental I (atoms)	1.5828E+21	1.1424E+22	
Organic I (atoms)	4.0139E+20	0.0000E+00	
Aerosols (kg)	1.5117E+00	1.0891E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1012E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3955E-04
Total I (Ci)			5.3850E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 0.5000 Leakage Transport

Noble gases (atoms) 0.0000E+00
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

DW to RB Transport Group Inventory:

		Pathway
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.3847E+20
Elemental I (atoms)	0.0000E+00	2.8738E+18
Organic I (atoms)	0.0000E+00	1.0936E+17
Aerosols (kg)	0.0000E+00	2.7257E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

		Pathway
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.4288E+19
Elemental I (atoms)	0.0000E+00	9.9015E+16
Organic I (atoms)	0.0000E+00	4.9189E+15
Aerosols (kg)	0.0000E+00	9.4172E-05

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

		Pathway
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.5859E+19
Elemental I (atoms)	0.0000E+00	2.6849E+17
Organic I (atoms)	0.0000E+00	1.3338E+16
Aerosols (kg)	0.0000E+00	2.5536E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

		Pathway
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.5859E+19
Elemental I (atoms)	0.0000E+00	2.6849E+17
Organic I (atoms)	0.0000E+00	1.3338E+16
Aerosols (kg)	0.0000E+00	2.5536E-04

EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2696E-02	3.3490E+00	1.6673E-01
Accumulated dose (rem)		3.6637E-02	5.6342E+00	2.7739E-01

LPZ Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0897E-03	4.5591E-01	2.2698E-02
Accumulated dose (rem)		4.9875E-03	7.6701E-01	3.7762E-02

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6580E-04	8.8956E-01	3.8714E-02
Accumulated dose (rem)		9.4847E-04	1.1166E+00	4.8518E-02

DW Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
Kr-83m		4.1594E+06	2.0490E-04	1.4867E+21	1.9629E+20
Kr-85m		1.1647E+07	1.4153E-03	1.0027E+22	5.2053E+20
Kr-85		6.8727E+05	1.7534E+00	1.2423E+25	2.9585E+19
Kr-87		1.5904E+07	5.6148E-04	3.8866E+21	7.8472E+20
Kr-88		2.9199E+07	2.3286E-03	1.5935E+22	1.3341E+21
Rb-86		1.7117E+03	2.1037E-05	1.4731E+20	3.7755E+17
Rb-88		3.7789E+06	3.1304E-05	2.1422E+20	2.4220E+20
Sr-89		9.4149E+04	3.2407E-03	2.1928E+22	5.6987E+18
Sr-90		1.0078E+04	7.3878E-02	4.9434E+23	6.0990E+17
Sr-91		1.0794E+05	2.9777E-05	1.9706E+20	6.6435E+18

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Sr-92	9.3087E+04	7.4059E-06	4.8477E+19	5.9786E+18
Y-90	1.1031E+02	2.0275E-07	1.3566E+18	6.5743E+15
Y-91	1.1812E+03	4.8164E-05	3.1874E+20	7.1469E+16
Y-92	2.1958E+03	2.2820E-07	1.4937E+18	1.1877E+17
Y-93	1.2298E+03	3.6862E-07	2.3870E+18	7.5617E+16
Zr-95	1.3932E+03	6.4854E-05	4.1111E+20	8.4329E+16
Zr-97	1.2906E+03	6.7509E-07	4.1912E+18	7.8846E+16
Nb-95	1.3747E+03	3.5156E-05	2.2286E+20	8.3198E+16
Mo-99	1.7411E+04	3.6302E-05	2.2082E+20	1.0563E+18
Tc-99m	1.5496E+04	2.9470E-06	1.7926E+19	9.3752E+17
Ru-103	1.5222E+04	4.7163E-04	2.7575E+21	9.2137E+17
Ru-105	9.2828E+03	1.3809E-06	7.9202E+18	5.8246E+17
Ru-106	6.3322E+03	1.8927E-03	1.0753E+22	3.8323E+17
Rh-105	1.0097E+04	1.1963E-05	6.8610E+19	6.1118E+17
Sb-127	1.7395E+04	6.5138E-05	3.0887E+20	1.0546E+18
Sb-129	4.6125E+04	8.2024E-06	3.8292E+19	2.8971E+18
Te-127	1.7314E+04	6.5606E-06	3.1109E+19	1.0476E+18
Te-127m	2.9644E+03	3.1428E-04	1.4902E+21	1.7941E+17
Te-129	4.8004E+04	2.2922E-06	1.0701E+19	2.9446E+18
Te-129m	9.7227E+03	3.2274E-04	1.5067E+21	5.8841E+17
Te-131m	3.5991E+04	4.5135E-05	2.0749E+20	2.1898E+18
Te-132	2.6193E+05	8.6277E-04	3.9361E+21	1.5884E+19
I-131	9.4889E+05	7.6539E-03	3.5185E+22	1.7622E+20
I-132	1.3573E+06	1.3150E-04	5.9991E+20	2.4890E+20
I-133	1.9089E+06	1.6851E-03	7.6300E+21	3.6062E+20
I-134	1.0268E+06	3.8492E-05	1.7299E+20	3.0324E+20
I-135	1.6794E+06	4.7822E-04	2.1333E+21	3.3042E+20
Xe-133	8.3947E+07	4.4848E-01	2.0307E+24	3.6157E+21
Xe-133m	2.5678E+06	5.8326E-03	2.6410E+22	1.1070E+20
Xe-135	3.6979E+07	1.4480E-02	6.4595E+22	1.5861E+21
Xe-135m	6.2213E+06	6.8341E-05	3.0486E+20	3.6586E+20
Xe-138	4.0329E+06	4.2030E-05	1.8341E+20	4.3059E+20
Cs-134	1.7143E+05	1.3250E-01	5.9546E+23	3.7779E+19
Cs-136	5.2192E+04	7.1212E-04	3.1533E+21	1.1516E+19
Cs-137	1.3310E+05	1.5301E+00	6.7261E+24	2.9330E+19
Ba-139	8.6121E+04	5.2651E-06	2.2811E+19	5.8646E+18
Ba-140	1.3825E+05	1.8885E-03	8.1233E+21	8.3715E+18
La-140	1.5301E+03	2.7528E-06	1.1841E+19	9.0383E+16
La-141	1.0904E+03	1.9282E-07	8.2352E+17	6.8745E+16
La-142	8.1401E+02	5.6864E-08	2.4116E+17	5.4732E+16
Ce-141	3.2721E+03	1.1484E-04	4.9047E+20	1.9804E+17
Ce-143	3.1240E+03	4.7042E-06	1.9811E+19	1.8998E+17
Ce-144	2.6218E+03	8.2202E-04	3.4377E+21	1.5868E+17
Pr-143	1.2490E+03	1.8548E-05	7.8111E+19	7.5585E+16
Nd-147	5.0802E+02	6.2797E-06	2.5726E+19	3.0764E+16
Np-239	3.6857E+04	1.5887E-04	4.0031E+20	2.2369E+18
Pu-238	8.1470E+00	4.7589E-04	1.2041E+21	4.9306E+14
Pu-239	8.2166E-01	1.3219E-02	3.3309E+22	4.9726E+13
Pu-240	1.4514E+00	6.3724E-04	1.5990E+21	8.7839E+13
Pu-241	3.2245E+02	3.2606E-03	8.1477E+21	1.9515E+16
Am-241	1.8241E-01	5.3245E-05	1.3305E+20	1.1039E+13
Cm-242	5.0105E+01	1.5136E-05	3.7667E+19	3.0325E+15
Cm-244	3.3135E+00	4.0482E-05	9.9913E+19	2.0054E+14

DW Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)	1.4576E+25	0.0000E+00	
Elemental I (atoms)	2.1693E+21	3.2387E+22	
Organic I (atoms)	1.0608E+21	0.0000E+00	
Aerosols (kg)	1.7748E+00	2.8199E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.5274E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9206E-04
Total I (Ci)			6.9214E+06

DW to WW Transport Group Inventory:

Time (h) = 1.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 1.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00

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Aerosols (kg) 0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7704E+21
Elemental I (atoms)	0.0000E+00	3.4443E+18
Organic I (atoms)	0.0000E+00	3.0663E+17
Aerosols (kg)	0.0000E+00	3.1967E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2662E+20
Elemental I (atoms)	0.0000E+00	1.5073E+17
Organic I (atoms)	0.0000E+00	2.2803E+16
Aerosols (kg)	0.0000E+00	1.3687E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1450E+20
Elemental I (atoms)	0.0000E+00	4.0873E+17
Organic I (atoms)	0.0000E+00	6.1831E+16
Aerosols (kg)	0.0000E+00	3.7114E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 1.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1450E+20
Elemental I (atoms)	0.0000E+00	4.0873E+17
Organic I (atoms)	0.0000E+00	6.1831E+16
Aerosols (kg)	0.0000E+00	3.7114E-04

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3329E-02	3.2957E-02	3.4814E-02
Accumulated dose (rem)	6.9966E-02	5.6672E-02	3.1220E-01

LPZ Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5989E-02	1.5810E-02	1.6701E-02
Accumulated dose (rem)	2.0976E-02	7.8282E-01	5.4463E-02

CR Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6382E-03	2.0665E+00	9.2093E-02
Accumulated dose (rem)	3.5866E-03	3.1830E+00	1.4061E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	7.8116E+06	3.8482E-04	2.7921E+21	1.0735E+21
Kr-85m	2.7201E+07	3.3053E-03	2.3417E+22	3.2910E+21
Kr-85	1.8737E+06	4.7801E+00	3.3867E+25	2.0805E+20
Kr-87	2.5139E+07	8.8751E-04	6.1433E+21	3.8424E+21
Kr-88	6.2362E+07	4.9734E-03	3.4034E+22	7.9421E+21
Rb-86	1.7091E+03	2.1004E-05	1.4708E+20	6.0537E+17
Rb-88	1.6975E+07	1.4062E-04	9.6228E+20	4.9798E+20
Sr-89	9.4100E+04	3.2390E-03	2.1917E+22	1.8236E+19
Sr-90	1.0078E+04	7.3882E-02	4.9436E+23	1.9523E+18
Sr-91	1.0035E+05	2.7683E-05	1.8320E+20	2.0510E+19
Sr-92	7.2083E+04	5.7348E-06	3.7539E+19	1.6920E+19
Y-90	1.1680E+02	2.1468E-07	1.4365E+18	2.0674E+16
Y-91	1.1820E+03	4.8199E-05	3.1897E+20	2.2866E+17
Y-92	2.7670E+03	2.8756E-07	1.8823E+18	3.0413E+17
Y-93	1.1483E+03	3.4419E-07	2.2288E+18	2.3394E+17
Zr-95	1.3927E+03	6.4828E-05	4.1095E+20	2.6988E+17
Zr-97	1.2388E+03	6.4800E-07	4.0230E+18	2.4728E+17
Nb-95	1.3748E+03	3.5158E-05	2.2287E+20	2.6631E+17
Mo-99	1.7230E+04	3.5924E-05	2.1853E+20	3.3634E+18

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Tc-99m	1.5478E+04	2.9437E-06	1.7906E+19	2.9889E+18
Ru-103	1.5211E+04	4.7131E-04	2.7556E+21	2.9482E+18
Ru-105	7.9414E+03	1.1814E-06	6.7758E+18	1.7273E+18
Ru-106	6.3320E+03	1.8927E-03	1.0753E+22	1.2267E+18
Rh-105	1.0069E+04	1.1929E-05	6.8416E+19	1.9534E+18
Sb-127	1.7266E+04	6.4654E-05	3.0658E+20	3.3631E+18
Sb-129	3.9290E+04	6.9868E-06	3.2617E+19	8.5738E+18
Te-127	1.7305E+04	6.5573E-06	3.1094E+19	3.3449E+18
Te-127m	2.9646E+03	3.1430E-04	1.4903E+21	5.7429E+17
Te-129	4.4428E+04	2.1214E-06	9.9036E+18	8.9552E+18
Te-129m	9.7228E+03	3.2275E-04	1.5067E+21	1.8835E+18
Te-131m	3.5171E+04	4.4107E-05	2.0276E+20	6.9291E+18
Te-132	2.5963E+05	8.5520E-04	3.9016E+21	5.0621E+19
I-131	9.7334E+05	7.8511E-03	3.6092E+22	3.0443E+20
I-132	1.3689E+06	1.3262E-04	6.0503E+20	4.3110E+20
I-133	1.8998E+06	1.6770E-03	7.5935E+21	6.1466E+20
I-134	4.7919E+05	1.7963E-05	8.0728E+19	3.9910E+20
I-135	1.5560E+06	4.4307E-04	1.9765E+21	5.4612E+20
Xe-133	2.2820E+08	1.2191E+00	5.5201E+24	2.5381E+22
Xe-133m	6.9496E+06	1.5785E-02	7.1475E+22	7.7489E+20
Xe-135	1.0028E+08	3.9267E-02	1.7516E+23	1.1188E+22
Xe-135m	6.6923E+06	7.3516E-05	3.2794E+20	1.3681E+21
Xe-138	5.8777E+05	6.1257E-06	2.6732E+19	7.0533E+20
Cs-134	1.7142E+05	1.3249E-01	5.9544E+23	6.0613E+19
Cs-136	5.2077E+04	7.1055E-04	3.1464E+21	1.8461E+19
Cs-137	1.3310E+05	1.5302E+00	6.7261E+24	4.7058E+19
Ba-139	5.2087E+04	3.1844E-06	1.3796E+19	1.4880E+19
Ba-140	1.3795E+05	1.8843E-03	8.1053E+21	2.6767E+19
La-140	1.6715E+03	3.0073E-06	1.2936E+19	2.8129E+17
La-141	9.1417E+02	1.6165E-07	6.9040E+17	2.0191E+17
La-142	5.1927E+02	3.6274E-08	1.5384E+17	1.4206E+17
Ce-141	3.2715E+03	1.1482E-04	4.9039E+20	6.3386E+17
Ce-143	3.0592E+03	4.6067E-06	1.9400E+19	6.0178E+17
Ce-144	2.6217E+03	8.2197E-04	3.4375E+21	5.0790E+17
Pr-143	1.2493E+03	1.8552E-05	7.8127E+19	2.4192E+17
Nd-147	5.0671E+02	6.2635E-06	2.5660E+19	9.8346E+16
Np-239	3.6409E+04	1.5694E-04	3.9545E+20	7.1165E+18
Pu-238	8.1475E+00	4.7592E-04	1.2042E+21	1.5783E+15
Pu-239	8.2182E-01	1.3222E-02	3.3315E+22	1.5918E+14
Pu-240	1.4515E+00	6.3727E-04	1.5991E+21	2.8117E+14
Pu-241	3.2247E+02	3.2608E-03	8.1481E+21	6.2468E+16
Am-241	1.8244E-01	5.3255E-05	1.3307E+20	3.5338E+13
Cm-242	5.0099E+01	1.5135E-05	3.7662E+19	9.7062E+15
Cm-244	3.3137E+00	4.0484E-05	9.9918E+19	6.4192E+14

DW Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	3.9700E+25	0.0000E+00	
Elemental I (atoms)	2.1372E+21	7.5051E+22	
Organic I (atoms)	2.3472E+21	0.0000E+00	
Aerosols (kg)	1.7747E+00	6.3338E+01	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.5492E-04	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.9239E-04	
Total I (Ci)		6.2772E+06	

DW to WW Transport Group Inventory:

Time (h) = 2.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 2.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7398E+22
Elemental I (atoms)	0.0000E+00	4.6054E+18
Organic I (atoms)	0.0000E+00	1.2275E+18

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Aerosols (kg) 0.0000E+00 4.1530E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5527E+21
Elemental I (atoms)	0.0000E+00	2.5600E+17
Organic I (atoms)	0.0000E+00	1.0628E+17
Aerosols (kg)	0.0000E+00	2.2357E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2103E+21
Elemental I (atoms)	0.0000E+00	6.9416E+17
Organic I (atoms)	0.0000E+00	2.8820E+17
Aerosols (kg)	0.0000E+00	6.0623E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2103E+21
Elemental I (atoms)	0.0000E+00	6.9416E+17
Organic I (atoms)	0.0000E+00	2.8820E+17
Aerosols (kg)	0.0000E+00	6.0623E-04

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.2000			
Delta dose (rem)	1.2345E-02	7.2368E-03	1.2681E-02
Accumulated dose (rem)	8.2311E-02	5.6744E+00	3.2488E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.2000			
Delta dose (rem)	5.9224E-03	3.4717E-03	6.0832E-03
Accumulated dose (rem)	2.6899E-02	7.8629E-01	6.0547E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.2000			
Delta dose (rem)	6.0533E-04	3.2904E-01	1.5002E-02
Accumulated dose (rem)	4.1920E-03	3.5121E+00	1.5561E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.2000	Ci	kg	Atoms	Decay
Kr-83m	4.4668E+06	2.2005E-04	1.5966E+21	1.1970E+21
Kr-85m	1.6247E+07	1.9742E-03	1.3987E+22	3.7306E+21
Kr-85	1.1543E+06	2.9449E+00	2.0864E+25	2.3881E+20
Kr-87	1.3888E+07	4.9029E-04	3.3938E+21	4.2333E+21
Kr-88	3.6589E+07	2.9179E-03	1.9968E+22	8.9410E+21
Rb-86	9.3435E+01	1.1483E-06	8.0410E+18	6.1044E+17
Rb-88	1.1373E+07	9.4210E-05	6.4471E+20	5.7188E+20
Sr-89	5.1455E+03	1.7711E-04	1.1984E+21	1.8515E+19
Sr-90	5.5113E+02	4.0404E-03	2.7035E+22	1.9822E+18
Sr-91	5.4084E+03	1.4920E-06	9.8734E+18	2.0806E+19
Sr-92	3.7454E+03	2.9798E-07	1.9505E+18	1.7129E+19
Y-90	7.5667E+00	1.3908E-08	9.3061E+16	2.1028E+16
Y-91	6.4861E+01	2.6448E-06	1.7503E+19	2.3217E+17
Y-92	2.9452E+02	3.0608E-08	2.0035E+17	3.1321E+17
Y-93	6.1942E+01	1.8566E-08	1.2022E+17	2.3733E+17
Zr-95	7.6155E+01	3.5449E-06	2.2472E+19	2.7400E+17
Zr-97	6.7190E+01	3.5147E-08	2.1821E+17	2.5094E+17
Nb-95	7.5183E+01	1.9227E-06	1.2188E+19	2.7039E+17
Mo-99	9.4027E+02	1.9605E-06	1.1925E+19	3.4144E+18
Tc-99m	8.4617E+02	1.6092E-07	9.7888E+17	3.0345E+18
Ru-103	8.3173E+02	2.5771E-05	1.5068E+20	2.9933E+18
Ru-105	4.2094E+02	6.2621E-08	3.5916E+17	1.7506E+18
Ru-106	3.4627E+02	1.0350E-04	5.8802E+20	1.2455E+18
Rh-105	5.5014E+02	6.5178E-07	3.7382E+18	1.9832E+18
Sb-127	9.4281E+02	3.5304E-06	1.6741E+19	3.4142E+18
Sb-129	2.0808E+03	3.7002E-07	1.7274E+18	8.6888E+18
Te-127	9.4623E+02	3.5854E-07	1.7001E+18	3.3960E+18
Te-127m	1.6213E+02	1.7188E-05	8.1503E+19	5.8307E+17

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Te-129	2.3849E+03	1.1388E-07	5.3163E+17	9.0827E+18
Te-129m	5.3170E+02	1.7650E-05	8.2394E+19	1.9123E+18
Te-131m	1.9145E+03	2.4009E-06	1.1037E+19	7.0332E+18
Te-132	1.4173E+04	4.6685E-05	2.1299E+20	5.1390E+19
I-131	8.0843E+04	6.5210E-04	2.9977E+21	3.0797E+20
I-132	1.0811E+05	1.0474E-05	4.7784E+19	4.3598E+20
I-133	1.5685E+05	1.3846E-04	6.2695E+20	6.2157E+20
I-134	3.4003E+04	1.2746E-06	5.7284E+18	4.0074E+20
I-135	1.2664E+05	3.6062E-05	1.6087E+20	5.5175E+20
Xe-133	1.4043E+08	7.5026E-01	3.3971E+24	2.9124E+22
Xe-133m	4.2703E+06	9.6996E-03	4.3919E+22	8.8881E+20
Xe-135	6.0892E+07	2.3844E-02	1.0637E+23	1.2822E+22
Xe-135m	2.4089E+06	2.6462E-05	1.1804E+20	1.4530E+21
Xe-138	2.0158E+05	2.1008E-06	9.1676E+18	7.1263E+20
Cs-134	9.3745E+03	7.2456E-03	3.2563E+22	6.1121E+19
Cs-136	2.8467E+03	3.8841E-05	1.7199E+20	1.8615E+19
Cs-137	7.2786E+03	8.3679E-02	3.6783E+23	4.7453E+19
Ba-139	2.5759E+03	1.5748E-07	6.8228E+17	1.5029E+19
Ba-140	7.5404E+03	1.0300E-04	4.4305E+20	2.7176E+19
La-140	1.1704E+02	2.1056E-07	9.0575E+17	2.8641E+17
La-141	4.8260E+01	8.5336E-09	3.6447E+16	2.0458E+17
La-142	2.5955E+01	1.8131E-09	7.6894E+15	1.4355E+17
Ce-141	1.7889E+02	6.2782E-06	2.6814E+19	6.4355E+17
Ce-143	1.6660E+02	2.5087E-07	1.0565E+18	6.1083E+17
Ce-144	1.4337E+02	4.4950E-05	1.8798E+20	5.1567E+17
Pr-143	6.8360E+01	1.0152E-06	4.2752E+18	2.4562E+17
Nd-147	2.7696E+01	3.4235E-07	1.4025E+18	9.9848E+16
Np-239	1.9862E+03	8.5617E-06	2.1573E+19	7.2243E+18
Pu-238	4.4556E-01	2.6026E-05	6.5855E+19	1.6025E+15
Pu-239	4.4944E-02	7.2308E-04	1.8220E+21	1.6162E+14
Pu-240	7.9376E-02	3.4850E-05	8.7447E+19	2.8547E+14
Pu-241	1.7635E+01	1.7832E-04	4.4559E+20	6.3423E+16
Am-241	9.9778E-03	2.9125E-06	7.2779E+18	3.5879E+13
Cm-242	2.7396E+00	8.2763E-07	2.0595E+18	9.8547E+15
Cm-244	1.8121E-01	2.2139E-06	5.4642E+18	6.5174E+14

DW Transport Group Inventory:

Time (h) =	2.2000	Atmosphere	Sump
Noble gases (atoms)	2.4450E+25	0.0000E+00	
Elemental I (atoms)	1.1648E+20	7.7939E+22	
Organic I (atoms)	1.4410E+21	0.0000E+00	
Aerosols (kg)	9.7138E-02	6.5737E+01	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.2836E-05	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.5891E-05	
Total I (Ci)		5.0646E+05	

DW to WW Transport Group Inventory:

Time (h) = 2.2000 Leakage Transport

Noble gases (atoms)	1.2836E+26
Elemental I (atoms)	5.4521E+21
Organic I (atoms)	7.5807E+21
Aerosols (kg)	4.5285E+00

WW to DW Transport Group Inventory:

Time (h) = 2.2000 Leakage Transport

Noble gases (atoms)	2.7029E+26
Elemental I (atoms)	9.5068E+21
Organic I (atoms)	1.5971E+22
Aerosols (kg)	7.8959E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9249E+22
Elemental I (atoms)	0.0000E+00	4.6840E+18
Organic I (atoms)	0.0000E+00	1.3368E+18
Aerosols (kg)	0.0000E+00	4.2183E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	2.2000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7204E+21
Elemental I (atoms)	0.0000E+00	2.6312E+17
Organic I (atoms)	0.0000E+00	1.1619E+17

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Aerosols (kg) 0.0000E+00 2.2949E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 2.2000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6652E+21
Elemental I (atoms)	0.0000E+00	7.1348E+17
Organic I (atoms)	0.0000E+00	3.1506E+17
Aerosols (kg)	0.0000E+00	6.2227E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 2.2000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6652E+21
Elemental I (atoms)	0.0000E+00	7.1348E+17
Organic I (atoms)	0.0000E+00	3.1506E+17
Aerosols (kg)	0.0000E+00	6.2227E-04

EAB Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3348E-03	1.7911E-03	3.4180E-03
Accumulated dose (rem)	8.5646E-02	5.6762E+00	3.2830E-01

LPZ Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5998E-03	8.5924E-04	1.6397E-03
Accumulated dose (rem)	2.8499E-02	7.8715E-01	6.2186E-02

CR Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5351E-04	7.8482E-02	3.5974E-03
Accumulated dose (rem)	4.3455E-03	3.5905E+00	1.5921E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.2500	Ci	kg	Atoms	Decay
Kr-83m	4.3842E+06	2.1598E-04	1.5670E+21	1.2265E+21
Kr-85m	1.6121E+07	1.9589E-03	1.3879E+22	3.8384E+21
Kr-85	1.1543E+06	2.9448E+00	2.0863E+25	2.4649E+20
Kr-87	1.3514E+07	4.7709E-04	3.3024E+21	4.3246E+21
Kr-88	3.6144E+07	2.8824E-03	1.9725E+22	9.1832E+21
Rb-86	5.3336E+01	6.5549E-07	4.5901E+18	6.1079E+17
Rb-88	9.6481E+06	7.9923E-05	5.4694E+20	6.0987E+20
Sr-89	2.9374E+03	1.0111E-04	6.8413E+20	1.8535E+19
Sr-90	3.1463E+02	2.3066E-03	1.5434E+22	1.9843E+18
Sr-91	3.0763E+03	8.4863E-07	5.6160E+18	2.0826E+19
Sr-92	2.1110E+03	1.6795E-07	1.0994E+18	1.7143E+19
Y-90	4.4877E+00	8.2485E-09	5.5193E+16	2.1057E+16
Y-91	3.7059E+01	1.5111E-06	1.0000E+19	2.3241E+17
Y-92	1.8730E+02	1.9465E-08	1.2741E+17	3.1433E+17
Y-93	3.5240E+01	1.0563E-08	6.8398E+16	2.3757E+17
Zr-95	4.3474E+01	2.0237E-06	1.2828E+19	2.7429E+17
Zr-97	3.8279E+01	2.0024E-08	1.2432E+17	2.5119E+17
Nb-95	4.2920E+01	1.0976E-06	6.9579E+18	2.7067E+17
Mo-99	5.3650E+02	1.1186E-06	6.8044E+18	3.4180E+18
Tc-99m	4.8300E+02	9.1857E-08	5.5876E+17	3.0378E+18
Ru-103	4.7480E+02	1.4711E-05	8.6014E+19	2.9965E+18
Ru-105	2.3844E+02	3.5471E-08	2.0344E+17	1.7522E+18
Ru-106	1.9768E+02	5.9087E-05	3.3569E+20	1.2468E+18
Rh-105	3.1399E+02	3.7200E-07	2.1336E+18	1.9853E+18
Sb-127	5.3803E+02	2.0147E-06	9.5534E+18	3.4178E+18
Sb-129	1.1784E+03	2.0955E-07	9.7825E+17	8.6967E+18
Te-127	5.4015E+02	2.0467E-07	9.7053E+17	3.3996E+18
Te-127m	9.2555E+01	9.8122E-06	4.6528E+19	5.8369E+17
Te-129	1.3545E+03	6.4680E-08	3.0195E+17	9.0916E+18
Te-129m	3.0354E+02	1.0076E-05	4.7037E+19	1.9143E+18
Te-131m	1.0917E+03	1.3691E-06	6.2936E+18	7.0404E+18
Te-132	8.0877E+03	2.6640E-05	1.2154E+20	5.1444E+19
I-131	5.9162E+04	4.7721E-04	2.1938E+21	3.0837E+20
I-132	7.8081E+04	7.5644E-06	3.4510E+19	4.3650E+20
I-133	1.1462E+05	1.0118E-04	4.5813E+20	6.2233E+20
I-134	2.3924E+04	8.9680E-07	4.0303E+18	4.0090E+20
I-135	9.2212E+04	2.6257E-05	1.1713E+20	5.5236E+20

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Xe-133	1.4039E+08	7.5003E-01	3.3961E+24	3.0060E+22
Xe-133m	4.2674E+06	9.6930E-03	4.3889E+22	9.1724E+20
Xe-135	6.0667E+07	2.3756E-02	1.0597E+23	1.3226E+22
Xe-135m	2.1048E+06	2.3122E-05	1.0314E+20	1.4680E+21
Xe-138	1.7411E+05	1.8146E-06	7.9185E+18	7.1388E+20
Cs-134	5.3517E+03	4.1363E-03	1.8589E+22	6.1156E+19
Cs-136	1.6249E+03	2.2171E-05	9.8174E+19	1.8626E+19
Cs-137	4.1552E+03	4.7771E-02	2.0999E+23	4.7481E+19
Ba-139	1.4340E+03	8.7671E-08	3.7983E+17	1.5039E+19
Ba-140	4.3042E+03	5.8793E-05	2.5290E+20	2.7204E+19
La-140	7.0461E+01	1.2677E-07	5.4530E+17	2.8685E+17
La-141	2.7309E+01	4.8289E-09	2.0624E+16	2.0477E+17
La-142	1.4488E+01	1.0121E-09	4.2921E+15	1.4365E+17
Ce-141	1.0212E+02	3.5840E-06	1.5307E+19	6.4423E+17
Ce-143	9.5007E+01	1.4307E-07	6.0249E+17	6.1146E+17
Ce-144	8.1846E+01	2.5661E-05	1.0732E+20	5.1622E+17
Pr-143	3.9031E+01	5.7963E-07	2.4410E+18	2.4588E+17
Nd-147	1.5809E+01	1.9542E-07	8.0056E+17	9.9953E+16
Np-239	1.1332E+03	4.8847E-06	1.2308E+19	7.2318E+18
Pu-238	2.5436E-01	1.4858E-05	3.7595E+19	1.6041E+15
Pu-239	2.5658E-02	4.1280E-04	1.0401E+21	1.6179E+14
Pu-240	4.5314E-02	1.9895E-05	4.9922E+19	2.8578E+14
Pu-241	1.0067E+01	1.0180E-04	2.5438E+20	6.3490E+16
Am-241	5.6962E-03	1.6627E-06	4.1549E+18	3.5917E+13
Cm-242	1.5640E+00	4.7247E-07	1.1757E+18	9.8651E+15
Cm-244	1.0345E-01	1.2639E-06	3.1194E+18	6.5243E+14

DW Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	2.4448E+25	0.0000E+00		
Elemental I (atoms)	6.6438E+19	7.8027E+22		
Organic I (atoms)	1.4398E+21	0.0000E+00		
Aerosols (kg)	5.5480E-02	6.5810E+01		
Dose Effective (Ci/cc) I-131 (Thyroid)			9.3879E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.1613E-05	
Total I (Ci)			3.6799E+05	

DW to WW Transport Group Inventory:

Time (h) = 2.2500 Leakage Transport

Noble gases (atoms)	1.7406E+26
Elemental I (atoms)	5.6183E+21
Organic I (atoms)	1.0274E+22
Aerosols (kg)	4.6671E+00

WW to DW Transport Group Inventory:

Time (h) = 2.2500 Leakage Transport

Noble gases (atoms)	3.1598E+26
Elemental I (atoms)	9.7112E+21
Organic I (atoms)	1.8665E+22
Aerosols (kg)	8.0663E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9907E+22
Elemental I (atoms)	0.0000E+00	4.6864E+18
Organic I (atoms)	0.0000E+00	1.3756E+18
Aerosols (kg)	0.0000E+00	4.2203E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7802E+21
Elemental I (atoms)	0.0000E+00	2.6334E+17
Organic I (atoms)	0.0000E+00	1.1971E+17
Aerosols (kg)	0.0000E+00	2.2967E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.8271E+21
Elemental I (atoms)	0.0000E+00	7.1407E+17
Organic I (atoms)	0.0000E+00	3.2461E+17

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Aerosols (kg) 0.0000E+00 6.2277E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8271E+21
Elemental I (atoms)	0.0000E+00	7.1407E+17
Organic I (atoms)	0.0000E+00	3.2461E+17
Aerosols (kg)	0.0000E+00	6.2277E-04

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.3000			
Delta dose (rem)	3.4344E-03	1.7804E-03	3.5172E-03
Accumulated dose (rem)	8.9080E-02	5.6780E+00	3.3182E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.3000			
Delta dose (rem)	1.6476E-03	8.5410E-04	1.6873E-03
Accumulated dose (rem)	3.0146E-02	7.8801E-01	6.3874E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.3000			
Delta dose (rem)	1.5453E-04	7.7041E-02	3.5376E-03
Accumulated dose (rem)	4.5000E-03	3.6676E+00	1.6275E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.3000	Ci	kg	Atoms	Decay
Kr-83m	4.3031E+06	2.1198E-04	1.5381E+21	1.2554E+21
Kr-85m	1.5996E+07	1.9438E-03	1.3771E+22	3.9453E+21
Kr-85	1.1542E+06	2.9447E+00	2.0863E+25	2.5418E+20
Kr-87	1.3150E+07	4.6425E-04	3.2135E+21	4.4134E+21
Kr-88	3.5704E+07	2.8474E-03	1.9486E+22	9.4225E+21
Rb-86	3.0446E+01	3.7418E-07	2.6202E+18	6.1100E+17
Rb-88	8.9210E+06	7.3901E-05	5.0573E+20	6.4309E+20
Sr-89	1.6768E+03	5.7718E-05	3.9054E+20	1.8546E+19
Sr-90	1.7962E+02	1.3168E-03	8.8108E+21	1.9854E+18
Sr-91	1.7498E+03	4.8270E-07	3.1944E+18	2.0838E+19
Sr-92	1.1898E+03	9.4659E-08	6.1962E+17	1.7151E+19
Y-90	2.6578E+00	4.8851E-09	3.2688E+16	2.1074E+16
Y-91	2.1174E+01	8.6339E-07	5.7137E+18	2.3255E+17
Y-92	1.1761E+02	1.2222E-08	8.0003E+16	3.1504E+17
Y-93	2.0049E+01	6.0093E-09	3.8913E+16	2.3770E+17
Zr-95	2.4818E+01	1.1552E-06	7.3232E+18	2.7446E+17
Zr-97	2.1808E+01	1.1408E-08	7.0824E+16	2.5134E+17
Nb-95	2.4502E+01	6.2661E-07	3.9721E+18	2.7083E+17
Mo-99	3.0611E+02	6.3825E-07	3.8824E+18	3.4200E+18
Tc-99m	2.7570E+02	5.2433E-08	3.1895E+17	3.0396E+18
Ru-103	2.7104E+02	8.3982E-06	4.9102E+19	2.9983E+18
Ru-105	1.3506E+02	2.0092E-08	1.1524E+17	1.7531E+18
Ru-106	1.1285E+02	3.3731E-05	1.9164E+20	1.2475E+18
Rh-105	1.7921E+02	2.1232E-07	1.2177E+18	1.9865E+18
Sb-127	3.0703E+02	1.1497E-06	5.4518E+18	3.4198E+18
Sb-129	6.6734E+02	1.1867E-07	5.5400E+17	8.7012E+18
Te-127	3.0835E+02	1.1684E-07	5.5403E+17	3.4017E+18
Te-127m	5.2838E+01	5.6016E-06	2.6562E+19	5.8404E+17
Te-129	7.6930E+02	3.6734E-08	1.7149E+17	9.0967E+18
Te-129m	1.7328E+02	5.7520E-06	2.6852E+19	1.9155E+18
Te-131m	6.2251E+02	7.8066E-07	3.5888E+18	7.0446E+18
Te-132	4.6150E+03	1.5201E-05	6.9352E+19	5.1475E+19
I-131	4.6784E+04	3.7737E-04	1.7348E+21	3.0868E+20
I-132	6.0906E+04	5.9005E-06	2.6919E+19	4.3691E+20
I-133	9.0501E+04	7.9891E-05	3.6174E+20	6.2294E+20
I-134	1.8188E+04	6.8180E-07	3.0641E+18	4.0103E+20
I-135	7.2551E+04	2.0659E-05	9.2156E+19	5.5285E+20
Xe-133	1.4035E+08	7.4980E-01	3.3950E+24	3.0994E+22
Xe-133m	4.2645E+06	9.6864E-03	4.3859E+22	9.4565E+20
Xe-135	6.0442E+07	2.3668E-02	1.0558E+23	1.3630E+22
Xe-135m	1.8388E+06	2.0200E-05	9.0108E+19	1.4811E+21
Xe-138	1.5039E+05	1.5673E-06	6.8396E+18	7.1496E+20
Cs-134	3.0552E+03	2.3613E-03	1.0612E+22	6.1177E+19
Cs-136	9.2754E+02	1.2656E-05	5.6039E+19	1.8632E+19
Cs-137	2.3721E+03	2.7271E-02	1.1988E+23	4.7496E+19
Ba-139	7.9833E+02	4.8806E-08	2.1145E+17	1.5044E+19

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Ba-140	2.4569E+03	3.3560E-05	1.4436E+20	2.7221E+19
La-140	4.2305E+01	7.6111E-08	3.2739E+17	2.8712E+17
La-141	1.5453E+01	2.7325E-09	1.1671E+16	2.0487E+17
La-142	8.0869E+00	5.6492E-10	2.3958E+15	1.4370E+17
Ce-141	5.8296E+01	2.0459E-06	8.7383E+18	6.4462E+17
Ce-143	5.4181E+01	8.1587E-08	3.4359E+17	6.1183E+17
Ce-144	4.6724E+01	1.4649E-05	6.1264E+19	5.1653E+17
Pr-143	2.2286E+01	3.3095E-07	1.3937E+18	2.4603E+17
Nd-147	9.0237E+00	1.1154E-07	4.5696E+17	1.0001E+17
Np-239	6.4653E+02	2.7869E-06	7.0221E+18	7.2361E+18
Pu-238	1.4521E-01	8.4821E-06	2.1462E+19	1.6051E+15
Pu-239	1.4648E-02	2.3566E-04	5.9379E+20	1.6189E+14
Pu-240	2.5869E-02	1.1358E-05	2.8499E+19	2.8595E+14
Pu-241	5.7472E+00	5.8116E-05	1.4522E+20	6.3529E+16
Am-241	3.2519E-03	9.4923E-07	2.3720E+18	3.5938E+13
Cm-242	8.9284E-01	2.6972E-07	6.7120E+17	9.8711E+15
Cm-244	5.9058E-02	7.2153E-07	1.7808E+18	6.5282E+14

DW Transport Group Inventory:

Time (h) =	2.3000	Atmosphere	Sump	
Noble gases (atoms)	2.4445E+25	0.0000E+00		
Elemental I (atoms)	3.7896E+19	7.8078E+22		
Organic I (atoms)	1.4385E+21	0.0000E+00		
Aerosols (kg)	3.1700E-02	6.5852E+01		
Dose Effective (Ci/cc) I-131 (Thyroid)			7.4193E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			9.1707E-06	
Total I (Ci)			2.8893E+05	

DW to WW Transport Group Inventory:

Time (h) = 2.3000 Leakage Transport

Noble gases (atoms)	2.1975E+26
Elemental I (atoms)	5.7131E+21
Organic I (atoms)	1.2965E+22
Aerosols (kg)	4.7463E+00

WW to DW Transport Group Inventory:

Time (h) = 2.3000 Leakage Transport

Noble gases (atoms)	3.6167E+26
Elemental I (atoms)	9.8278E+21
Organic I (atoms)	2.1355E+22
Aerosols (kg)	8.1637E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.3000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.0566E+22
Elemental I (atoms)	0.0000E+00	4.6878E+18
Organic I (atoms)	0.0000E+00	1.4144E+18
Aerosols (kg)	0.0000E+00	4.2215E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	2.3000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8399E+21
Elemental I (atoms)	0.0000E+00	2.6346E+17
Organic I (atoms)	0.0000E+00	1.2323E+17
Aerosols (kg)	0.0000E+00	2.2977E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	2.3000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.9890E+21
Elemental I (atoms)	0.0000E+00	7.1440E+17
Organic I (atoms)	0.0000E+00	3.3414E+17
Aerosols (kg)	0.0000E+00	6.2305E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	2.3000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.9890E+21
Elemental I (atoms)	0.0000E+00	7.1440E+17
Organic I (atoms)	0.0000E+00	3.3414E+17

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Aerosols (kg) 0.0000E+00 6.2305E-04

EAB Doses:

Time (h) =	2.3500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.5303E-03	1.7691E-03	3.6127E-03
Accumulated dose (rem)		9.2611E-02	5.6798E+00	3.3543E-01

LPZ Doses:

Time (h) =	2.3500	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6936E-03	8.4870E-04	1.7331E-03
Accumulated dose (rem)		3.1840E-02	7.8886E-01	6.5607E-02

CR Doses:

Time (h) =	2.3500	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5568E-04	7.5626E-02	3.4791E-03
Accumulated dose (rem)		4.6557E-03	3.7432E+00	1.6623E-01

DW Compartment Nuclide Inventory:

Time (h) =	2.3500	Ci	kg	Atoms	Decay
Kr-83m		4.2235E+06	2.0806E-04	1.5096E+21	1.2838E+21
Kr-85m		1.5872E+07	1.9287E-03	1.3665E+22	4.0515E+21
Kr-85		1.1542E+06	2.9446E+00	2.0862E+25	2.6187E+20
Kr-87		1.2796E+07	4.5175E-04	3.1270E+21	4.4998E+21
Kr-88		3.5270E+07	2.8127E-03	1.9249E+22	9.6588E+21
Rb-86		1.7380E+01	2.1359E-07	1.4957E+18	6.1111E+17
Rb-88		8.5039E+06	7.0445E-05	4.8208E+20	6.7373E+20
Sr-89		9.5724E+02	3.2949E-05	2.2295E+20	1.8552E+19
Sr-90		1.0254E+02	7.5171E-04	5.0299E+21	1.9861E+18
Sr-91		9.9528E+02	2.7456E-07	1.8170E+18	2.0845E+19
Sr-92		6.7061E+02	5.3352E-08	3.4923E+17	1.7156E+19
Y-90		1.5720E+00	2.8894E-09	1.9334E+16	2.1084E+16
Y-91		1.2098E+01	4.9330E-07	3.2645E+18	2.3263E+17
Y-92		7.3092E+01	7.5960E-09	4.9722E+16	3.1548E+17
Y-93		1.1406E+01	3.4189E-09	2.2138E+16	2.3778E+17
Zr-95		1.4168E+01	6.5949E-07	4.1806E+18	2.7455E+17
Zr-97		1.2424E+01	6.4991E-09	4.0349E+16	2.5142E+17
Nb-95		1.3988E+01	3.5772E-07	2.2676E+18	2.7093E+17
Mo-99		1.7466E+02	3.6417E-07	2.2152E+18	3.4212E+18
Tc-99m		1.5738E+02	2.9929E-08	1.8206E+17	3.0406E+18
Ru-103		1.5473E+02	4.7942E-06	2.8030E+19	2.9993E+18
Ru-105		7.6504E+01	1.1381E-08	6.5275E+16	1.7536E+18
Ru-106		6.4424E+01	1.9256E-05	1.0940E+20	1.2480E+18
Rh-105		1.0228E+02	1.2118E-07	6.9500E+17	1.9872E+18
Sb-127		1.7521E+02	6.5610E-07	3.1111E+18	3.4210E+18
Sb-129		3.7793E+02	6.7206E-08	3.1374E+17	8.7037E+18
Te-127		1.7602E+02	6.6697E-08	3.1627E+17	3.4028E+18
Te-127m		3.0164E+01	3.1978E-06	1.5164E+19	5.8424E+17
Te-129		4.3690E+02	2.0862E-08	9.7391E+16	9.0996E+18
Te-129m		9.8922E+01	3.2837E-06	1.5329E+19	1.9161E+18
Te-131m		3.5497E+02	4.4515E-07	2.0464E+18	7.0469E+18
Te-132		2.6335E+03	8.6743E-06	3.9574E+19	5.1492E+19
I-131		3.9716E+04	3.2036E-04	1.4727E+21	3.0894E+20
I-132		5.0983E+04	4.9392E-06	2.2534E+19	4.3725E+20
I-133		7.6714E+04	6.7720E-05	3.0663E+20	6.2345E+20
I-134		1.4845E+04	5.5646E-07	2.5008E+18	4.0113E+20
I-135		6.1279E+04	1.7449E-05	7.7838E+19	5.5326E+20
Xe-133		1.4031E+08	7.4958E-01	3.3940E+24	3.1929E+22
Xe-133m		4.2616E+06	9.6797E-03	4.3829E+22	9.7404E+20
Xe-135		6.0216E+07	2.3580E-02	1.0519E+23	1.4031E+22
Xe-135m		1.6064E+06	1.7646E-05	7.8717E+19	1.4925E+21
Xe-138		1.2990E+05	1.3538E-06	5.9077E+18	7.1589E+20
Cs-134		1.7441E+03	1.3480E-03	6.0583E+21	6.1188E+19
Cs-136		5.2945E+02	7.2240E-06	3.1988E+19	1.8636E+19
Cs-137		1.3542E+03	1.5569E-02	6.8435E+22	4.7505E+19
Ba-139		4.4443E+02	2.7171E-08	1.1772E+17	1.5047E+19
Ba-140		1.4024E+03	1.9157E-05	8.2403E+19	2.7230E+19
La-140		2.5337E+01	4.5584E-08	1.9608E+17	2.8728E+17
La-141		8.7445E+00	1.5462E-09	6.6040E+15	2.0493E+17
La-142		4.5140E+00	3.1533E-10	1.3373E+15	1.4374E+17
Ce-141		3.3279E+01	1.1680E-06	4.9883E+18	6.4484E+17
Ce-143		3.0898E+01	4.6528E-08	1.9594E+17	6.1203E+17
Ce-144		2.6673E+01	8.3629E-06	3.4974E+19	5.1671E+17
Pr-143		1.2724E+01	1.8896E-07	7.9576E+17	2.4611E+17
Nd-147		5.1508E+00	6.3670E-08	2.6083E+17	1.0005E+17

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Np-239	3.6886E+02	1.5900E-06	4.0063E+18	7.2386E+18
Pu-238	8.2898E-02	4.8422E-06	1.2252E+19	1.6057E+15
Pu-239	8.3621E-03	1.3453E-04	3.3899E+20	1.6194E+14
Pu-240	1.4768E-02	6.4839E-06	1.6270E+19	2.8605E+14
Pu-241	3.2810E+00	3.3177E-05	8.2903E+19	6.3551E+16
Am-241	1.8565E-03	5.4191E-07	1.3541E+18	3.5951E+13
Cm-242	5.0970E-01	1.5398E-07	3.8317E+17	9.8745E+15
Cm-244	3.3715E-02	4.1191E-07	1.0166E+18	6.5305E+14

DW Transport Group Inventory:

Time (h) =	2.3500	Atmosphere	Sump	
Noble gases (atoms)	2.4442E+25	0.0000E+00		
Elemental I (atoms)	2.1615E+19	7.8106E+22		
Organic I (atoms)	1.4372E+21	0.0000E+00		
Aerosols (kg)	1.8125E-02	6.5876E+01		
Dose Effective (Ci/cc) I-131 (Thyroid)			6.2946E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			7.7746E-06	
Total I (Ci)			2.4354E+05	

DW to WW Transport Group Inventory:

Time (h) = 2.3500 Leakage Transport

Noble gases (atoms)	2.6544E+26
Elemental I (atoms)	5.7672E+21
Organic I (atoms)	1.5653E+22
Aerosols (kg)	4.7915E+00

WW to DW Transport Group Inventory:

Time (h) = 2.3500 Leakage Transport

Noble gases (atoms)	4.0736E+26
Elemental I (atoms)	9.8943E+21
Organic I (atoms)	2.4044E+22
Aerosols (kg)	8.2193E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.3500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1225E+22
Elemental I (atoms)	0.0000E+00	4.6886E+18
Organic I (atoms)	0.0000E+00	1.4532E+18
Aerosols (kg)	0.0000E+00	4.2221E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	2.3500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8996E+21
Elemental I (atoms)	0.0000E+00	2.6353E+17
Organic I (atoms)	0.0000E+00	1.2674E+17
Aerosols (kg)	0.0000E+00	2.2983E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	2.3500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1509E+21
Elemental I (atoms)	0.0000E+00	7.1459E+17
Organic I (atoms)	0.0000E+00	3.4367E+17
Aerosols (kg)	0.0000E+00	6.2321E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	2.3500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1509E+21
Elemental I (atoms)	0.0000E+00	7.1459E+17
Organic I (atoms)	0.0000E+00	3.4367E+17
Aerosols (kg)	0.0000E+00	6.2321E-04

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.6227E-03	1.7576E-03	3.7046E-03
Accumulated dose (rem)		9.6233E-02	5.6815E+00	3.3914E-01

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Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7379E-03	8.4318E-04	1.7772E-03
Accumulated dose (rem)		3.3578E-02	7.8970E-01	6.7384E-02

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5695E-04	7.4238E-02	3.4220E-03
Accumulated dose (rem)		4.8126E-03	3.8174E+00	1.6965E-01

DW Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		4.1454E+06	2.0421E-04	1.4817E+21	1.3117E+21
Kr-85m		1.5749E+07	1.9138E-03	1.3559E+22	4.1568E+21
Kr-85		1.1541E+06	2.9445E+00	2.0861E+25	2.6955E+20
Kr-87		1.2452E+07	4.3959E-04	3.0428E+21	4.5838E+21
Kr-88		3.4841E+07	2.7785E-03	1.9014E+22	9.8923E+21
Rb-86		9.9209E+00	1.2193E-07	8.5379E+17	6.1118E+17
Rb-88		8.2438E+06	6.8291E-05	4.6734E+20	7.0288E+20
Sr-89		5.4645E+02	1.8809E-05	1.2727E+20	1.8556E+19
Sr-90		5.8537E+01	4.2914E-04	2.8715E+21	1.9865E+18
Sr-91		5.6611E+02	1.5617E-07	1.0335E+18	2.0848E+19
Sr-92		3.7797E+02	3.0071E-08	1.9684E+17	1.7158E+19
Y-90		9.2864E-01	1.7069E-09	1.1421E+16	2.1090E+16
Y-91		6.9120E+00	2.8185E-07	1.8652E+18	2.3268E+17
Y-92		4.5044E+01	4.6812E-09	3.0642E+16	3.1576E+17
Y-93		6.4894E+00	1.9451E-09	1.2595E+16	2.3782E+17
Zr-95		8.0879E+00	3.7648E-07	2.3865E+18	2.7461E+17
Zr-97		7.0782E+00	3.7026E-09	2.2987E+16	2.5147E+17
Nb-95		7.9854E+00	2.0421E-07	1.2945E+18	2.7098E+17
Mo-99		9.9659E+01	2.0779E-07	1.2640E+18	3.4218E+18
Tc-99m		8.9832E+01	1.7084E-08	1.0392E+17	3.0412E+18
Ru-103		8.8327E+01	2.7368E-06	1.6001E+19	2.9999E+18
Ru-105		4.3335E+01	6.4467E-09	3.6974E+16	1.7539E+18
Ru-106		3.6778E+01	1.0993E-05	6.2454E+19	1.2482E+18
Rh-105		5.8375E+01	6.9160E-08	3.9666E+17	1.9876E+18
Sb-127		9.9988E+01	3.7441E-07	1.7754E+18	3.4217E+18
Sb-129		2.1403E+02	3.8060E-08	1.7768E+17	8.7051E+18
Te-127		1.0048E+02	3.8074E-08	1.8054E+17	3.4035E+18
Te-127m		1.7220E+01	1.8256E-06	8.6566E+18	5.8436E+17
Te-129		2.4812E+02	1.1848E-08	5.5308E+16	9.1012E+18
Te-129m		5.6472E+01	1.8746E-06	8.7511E+18	1.9165E+18
Te-131m		2.0241E+02	2.5383E-07	1.1669E+18	7.0483E+18
Te-132		1.5027E+03	4.9498E-06	2.2582E+19	5.1502E+19
I-131		3.5679E+04	2.8780E-04	1.3230E+21	3.0918E+20
I-132		4.5149E+04	4.3740E-06	1.9955E+19	4.3756E+20
I-133		6.8814E+04	6.0747E-05	2.7506E+20	6.2391E+20
I-134		1.2821E+04	4.8061E-07	2.1599E+18	4.0122E+20
I-135		5.4772E+04	1.5596E-05	6.9573E+19	5.5362E+20
Xe-133		1.4026E+08	7.4935E-01	3.3930E+24	3.2863E+22
Xe-133m		4.2586E+06	9.6731E-03	4.3799E+22	1.0024E+21
Xe-135		5.9991E+07	2.3492E-02	1.0479E+23	1.4432E+22
Xe-135m		1.4033E+06	1.5416E-05	6.8768E+19	1.5026E+21
Xe-138		1.1220E+05	1.1693E-06	5.1028E+18	7.1669E+20
Cs-134		9.9569E+02	7.6957E-04	3.4585E+21	6.1195E+19
Cs-136		3.0222E+02	4.1236E-06	1.8259E+19	1.8638E+19
Cs-137		7.7308E+02	8.8878E-03	3.9068E+22	4.7511E+19
Ba-139		2.4742E+02	1.5126E-08	6.5533E+16	1.5049E+19
Ba-140		8.0053E+02	1.0935E-05	4.7037E+19	2.7235E+19
La-140		1.5141E+01	2.7240E-08	1.1717E+17	2.8738E+17
La-141		4.9482E+00	8.7496E-10	3.7370E+15	2.0496E+17
La-142		2.5197E+00	1.7602E-10	7.4647E+14	1.4375E+17
Ce-141		1.8998E+01	6.6674E-07	2.8476E+18	6.4497E+17
Ce-143		1.7621E+01	2.6534E-08	1.1174E+17	6.1215E+17
Ce-144		1.5227E+01	4.7742E-06	1.9966E+19	5.1681E+17
Pr-143		7.2651E+00	1.0789E-07	4.5435E+17	2.4616E+17
Nd-147		2.9401E+00	3.6343E-08	1.4889E+17	1.0007E+17
Np-239		2.1045E+02	9.0713E-07	2.2857E+18	7.2400E+18
Pu-238		4.7325E-02	2.7643E-06	6.9946E+18	1.6060E+15
Pu-239		4.7738E-03	7.6803E-05	1.9352E+20	1.6198E+14
Pu-240		8.4307E-03	3.7015E-06	9.2880E+18	2.8610E+14
Pu-241		1.8730E+00	1.8940E-05	4.7328E+19	6.3563E+16
Am-241		1.0598E-03	3.0937E-07	7.7305E+17	3.5958E+13
Cm-242		2.9097E-01	8.7902E-08	2.1874E+17	9.8764E+15
Cm-244		1.9247E-02	2.3515E-07	5.8037E+17	6.5317E+14

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DW Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	2.4440E+25	0.0000E+00	
Elemental I (atoms)	1.2329E+19	7.8123E+22	
Organic I (atoms)	1.4359E+21	0.0000E+00	
Aerosols (kg)	1.0375E-02	6.5890E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)		5.6514E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.9748E-06	
Total I (Ci)		2.1724E+05	

DW to WW Transport Group Inventory:

Time (h) = 2.4000 Leakage Transport

Noble gases (atoms)	3.1112E+26
Elemental I (atoms)	5.7980E+21
Organic I (atoms)	1.8339E+22
Aerosols (kg)	4.8174E+00

WW to DW Transport Group Inventory:

Time (h) = 2.4000 Leakage Transport

Noble gases (atoms)	4.5304E+26
Elemental I (atoms)	9.9323E+21
Organic I (atoms)	2.6730E+22
Aerosols (kg)	8.2511E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.1883E+22
Elemental I (atoms)	0.0000E+00	4.6890E+18
Organic I (atoms)	0.0000E+00	1.4919E+18
Aerosols (kg)	0.0000E+00	4.2225E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9593E+21
Elemental I (atoms)	0.0000E+00	2.6357E+17
Organic I (atoms)	0.0000E+00	1.3025E+17
Aerosols (kg)	0.0000E+00	2.2986E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.3128E+21
Elemental I (atoms)	0.0000E+00	7.1470E+17
Organic I (atoms)	0.0000E+00	3.5319E+17
Aerosols (kg)	0.0000E+00	6.2330E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.3128E+21
Elemental I (atoms)	0.0000E+00	7.1470E+17
Organic I (atoms)	0.0000E+00	3.5319E+17
Aerosols (kg)	0.0000E+00	6.2330E-04

EAB Doses:

Time (h) =	2.4500	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7116E-03	1.7460E-03	3.7930E-03	
Accumulated dose (rem)	9.9945E-02	5.6833E+00	3.4293E-01	

LPZ Doses:

Time (h) =	2.4500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7806E-03	8.3759E-04	1.8196E-03	
Accumulated dose (rem)	3.5358E-02	7.9054E-01	6.9204E-02	

CR Doses:

Time (h) =	2.4500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5834E-04	7.2875E-02	3.3661E-03	

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Accumulated dose (rem) 4.9710E-03 3.8903E+00 1.7301E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.4500	Ci	kg	Atoms	Decay
Kr-83m	4.0687E+06	2.0044E-04	1.4543E+21	1.3390E+21
Kr-85m	1.5628E+07	1.8990E-03	1.3454E+22	4.2612E+21
Kr-85	1.1541E+06	2.9444E+00	2.0860E+25	2.7724E+20
Kr-87	1.2116E+07	4.2775E-04	2.9609E+21	4.6656E+21
Kr-88	3.4417E+07	2.7447E-03	1.8783E+22	1.0123E+22
Rb-86	5.6632E+00	6.9600E-08	4.8737E+17	6.1122E+17
Rb-88	8.0640E+06	6.6801E-05	4.5714E+20	7.3112E+20
Sr-89	3.1195E+02	1.0737E-05	7.2655E+19	1.8558E+19
Sr-90	3.3418E+01	2.4499E-04	1.6393E+21	1.9867E+18
Sr-91	3.2201E+02	8.8829E-08	5.8785E+17	2.0850E+19
Sr-92	2.1303E+02	1.6949E-08	1.1094E+17	1.7160E+19
Y-90	5.4795E-01	1.0071E-09	6.7390E+15	2.1093E+16
Y-91	3.9491E+00	1.6103E-07	1.0657E+18	2.3271E+17
Y-92	2.7563E+01	2.8645E-09	1.8751E+16	3.1593E+17
Y-93	3.6919E+00	1.1066E-09	7.1656E+15	2.3784E+17
Zr-95	4.6171E+00	2.1492E-07	1.3624E+18	2.7464E+17
Zr-97	4.0325E+00	2.1094E-09	1.3096E+16	2.5150E+17
Nb-95	4.5587E+00	1.1658E-07	7.3902E+17	2.7101E+17
Mo-99	5.6863E+01	1.1856E-07	7.2120E+17	3.4222E+18
Tc-99m	5.1277E+01	9.7517E-09	5.9319E+16	3.0416E+18
Ru-103	5.0422E+01	1.5623E-06	9.1344E+18	3.0002E+18
Ru-105	2.4547E+01	3.6517E-09	2.0944E+16	1.7540E+18
Ru-106	2.0996E+01	6.2757E-06	3.5654E+19	1.2483E+18
Rh-105	3.3317E+01	3.9472E-08	2.2639E+17	1.9878E+18
Sb-127	5.7060E+01	2.1367E-07	1.0132E+18	3.4221E+18
Sb-129	1.2121E+02	2.1554E-08	1.0062E+17	8.7059E+18
Te-127	5.7359E+01	2.1734E-08	1.0306E+17	3.4039E+18
Te-127m	9.8305E+00	1.0422E-06	4.9419E+18	5.8442E+17
Te-129	1.4090E+02	6.7280E-09	3.1409E+16	9.1022E+18
Te-129m	3.2238E+01	1.0701E-06	4.9958E+18	1.9167E+18
Te-131m	1.1542E+02	1.4474E-07	6.6538E+17	7.0491E+18
Te-132	8.5749E+02	2.8245E-06	1.2886E+19	5.1508E+19
I-131	3.3372E+04	2.6919E-04	1.2375E+21	3.0940E+20
I-132	4.1620E+04	4.0321E-06	1.8396E+19	4.3784E+20
I-133	6.4269E+04	5.6734E-05	2.5689E+20	6.2433E+20
I-134	1.1529E+04	4.3219E-07	1.9423E+18	4.0129E+20
I-135	5.0972E+04	1.4514E-05	6.4746E+19	5.5396E+20
Xe-133	1.4022E+08	7.4912E-01	3.3920E+24	3.3797E+22
Xe-133m	4.2557E+06	9.6665E-03	4.3769E+22	1.0308E+21
Xe-135	5.9766E+07	2.3403E-02	1.0440E+23	1.4830E+22
Xe-135m	1.2260E+06	1.3468E-05	6.0078E+19	1.5113E+21
Xe-138	9.6912E+04	1.0100E-06	4.4075E+18	7.1739E+20
Cs-134	5.6842E+02	4.3933E-04	1.9744E+21	6.1199E+19
Cs-136	1.7251E+02	2.3538E-06	1.0423E+19	1.8639E+19
Cs-137	4.4133E+02	5.0738E-03	2.2303E+22	4.7513E+19
Ba-139	1.3774E+02	8.4207E-09	3.6483E+16	1.5050E+19
Ba-140	4.5695E+02	6.2418E-06	2.6849E+19	2.7238E+19
La-140	9.0294E+00	1.6245E-08	6.9878E+16	2.8743E+17
La-141	2.8000E+00	4.9511E-10	2.1146E+15	2.0498E+17
La-142	1.4065E+00	9.8250E-11	4.1667E+14	1.4376E+17
Ce-141	1.0845E+01	3.8061E-07	1.6256E+18	6.4504E+17
Ce-143	1.0049E+01	1.5132E-08	6.3724E+16	6.1222E+17
Ce-144	8.6929E+00	2.7255E-06	1.1398E+19	5.1687E+17
Pr-143	4.1481E+00	6.1601E-08	2.5942E+17	2.4619E+17
Nd-147	1.6782E+00	2.0745E-08	8.4984E+16	1.0008E+17
Np-239	1.2007E+02	5.1754E-07	1.3041E+18	7.2408E+18
Pu-238	2.7017E-02	1.5781E-06	3.9931E+18	1.6062E+15
Pu-239	2.7253E-03	4.3845E-05	1.1048E+20	1.6199E+14
Pu-240	4.8129E-03	2.1131E-06	5.3023E+18	2.8614E+14
Pu-241	1.0693E+00	1.0812E-05	2.7018E+19	6.3570E+16
Am-241	6.0505E-04	1.7661E-07	4.4133E+17	3.5962E+13
Cm-242	1.6611E-01	5.0181E-08	1.2487E+17	9.8775E+15
Cm-244	1.0988E-02	1.3424E-07	3.3132E+17	6.5325E+14

DW Transport Group Inventory:

Time (h) = 2.4500	Atmosphere	Sump
Noble gases (atoms)	2.4437E+25	0.0000E+00
Elemental I (atoms)	7.0326E+18	7.8132E+22
Organic I (atoms)	1.4347E+21	0.0000E+00
Aerosols (kg)	5.9509E-03	6.5898E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		5.2828E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.5149E-06
Total I (Ci)		2.0176E+05

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DW to WW Transport Group Inventory:

Time (h) = 2.4500 Leakage Transport

Noble gases (atoms)	3.5679E+26
Elemental I (atoms)	5.8156E+21
Organic I (atoms)	2.1023E+22
Aerosols (kg)	4.8322E+00

WW to DW Transport Group Inventory:

Time (h) = 2.4500 Leakage Transport

Noble gases (atoms)	4.9872E+26
Elemental I (atoms)	9.9539E+21
Organic I (atoms)	2.9413E+22
Aerosols (kg)	8.2693E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 2.4500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2542E+22
Elemental I (atoms)	0.0000E+00	4.6893E+18
Organic I (atoms)	0.0000E+00	1.5306E+18
Aerosols (kg)	0.0000E+00	4.2227E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) = 2.4500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0190E+21
Elemental I (atoms)	0.0000E+00	2.6360E+17
Organic I (atoms)	0.0000E+00	1.3376E+17
Aerosols (kg)	0.0000E+00	2.2988E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 2.4500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4747E+21
Elemental I (atoms)	0.0000E+00	7.1477E+17
Organic I (atoms)	0.0000E+00	3.6270E+17
Aerosols (kg)	0.0000E+00	6.2335E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 2.4500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4747E+21
Elemental I (atoms)	0.0000E+00	7.1477E+17
Organic I (atoms)	0.0000E+00	3.6270E+17
Aerosols (kg)	0.0000E+00	6.2335E-04

EAB Doses:

Time (h) = 2.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7972E-03	1.7343E-03	3.8781E-03
Accumulated dose (rem)	1.0374E-01	5.6850E+00	3.4681E-01

LPZ Doses:

Time (h) = 2.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8216E-03	8.3200E-04	1.8604E-03
Accumulated dose (rem)	3.7180E-02	7.9137E-01	7.1064E-02

CR Doses:

Time (h) = 2.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5984E-04	7.1538E-02	3.3114E-03
Accumulated dose (rem)	5.1308E-03	3.9619E+00	1.7633E-01

DW Compartment Nuclide Inventory:

Time (h) = 2.5000	Ci	kg	Atoms	Decay
Kr-83m	3.9935E+06	1.9673E-04	1.4274E+21	1.3659E+21
Kr-85m	1.5507E+07	1.8843E-03	1.3350E+22	4.3649E+21
Kr-85	1.1541E+06	2.9443E+00	2.0860E+25	2.8493E+20
Kr-87	1.1790E+07	4.1624E-04	2.8812E+21	4.7452E+21

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Kr-88	3.3998E+07	2.7113E-03	1.8555E+22	1.0351E+22
Rb-86	3.2327E+00	3.9730E-08	2.7821E+17	6.1124E+17
Rb-88	7.9256E+06	6.5655E-05	4.4930E+20	7.5873E+20
Sr-89	1.7808E+02	6.1296E-06	4.1476E+19	1.8559E+19
Sr-90	1.9077E+01	1.3986E-04	9.3582E+20	1.9869E+18
Sr-91	1.8316E+02	5.0526E-08	3.3437E+17	2.0852E+19
Sr-92	1.2007E+02	9.5526E-09	6.2530E+16	1.7161E+19
Y-90	3.2297E-01	5.9363E-10	3.9721E+15	2.1095E+16
Y-91	2.2563E+00	9.2005E-08	6.0887E+17	2.3272E+17
Y-92	1.6765E+01	1.7423E-09	1.1405E+16	3.1603E+17
Y-93	2.1004E+00	6.2957E-10	4.0767E+15	2.3786E+17
Zr-95	2.6357E+00	1.2269E-07	7.7775E+17	2.7466E+17
Zr-97	2.2973E+00	1.2017E-09	7.4609E+15	2.5151E+17
Nb-95	2.6025E+00	6.6554E-08	4.2189E+17	2.7103E+17
Mo-99	3.2445E+01	6.7648E-08	4.1150E+17	3.4224E+18
Tc-99m	2.9269E+01	5.5664E-09	3.3860E+16	3.0418E+18
Ru-103	2.8784E+01	8.9186E-07	5.2145E+18	3.0004E+18
Ru-105	1.3904E+01	2.0685E-09	1.1863E+16	1.7541E+18
Ru-106	1.1986E+01	3.5826E-06	2.0354E+19	1.2484E+18
Rh-105	1.9015E+01	2.2528E-08	1.2921E+17	1.9879E+18
Sb-127	3.2562E+01	1.2193E-07	5.7818E+17	3.4223E+18
Sb-129	6.8641E+01	1.2206E-08	5.6983E+16	8.7064E+18
Te-127	3.2743E+01	1.2407E-08	5.8832E+16	3.4041E+18
Te-127m	5.6120E+00	5.9496E-07	2.8212E+18	5.8446E+17
Te-129	8.0012E+01	3.8206E-09	1.7836E+16	9.1027E+18
Te-129m	1.8404E+01	6.1092E-07	2.8520E+18	1.9168E+18
Te-131m	6.5813E+01	8.2534E-08	3.7941E+17	7.0495E+18
Te-132	4.8930E+02	1.6117E-06	7.3530E+18	5.1511E+19
I-131	3.2053E+04	2.5854E-04	1.1885E+21	3.0962E+20
I-132	3.9392E+04	3.8163E-06	1.7411E+19	4.3810E+20
I-133	6.1636E+04	5.4410E-05	2.4636E+20	6.2474E+20
I-134	1.0646E+04	3.9908E-07	1.7935E+18	4.0137E+20
I-135	4.8709E+04	1.3870E-05	6.1872E+19	5.5429E+20
Xe-133	1.4018E+08	7.4890E-01	3.3909E+24	3.4731E+22
Xe-133m	4.2528E+06	9.6599E-03	4.3740E+22	1.0591E+21
Xe-135	5.9541E+07	2.3315E-02	1.0401E+23	1.5228E+22
Xe-135m	1.0712E+06	1.1767E-05	5.2491E+19	1.5189E+21
Xe-138	8.3707E+04	8.7238E-07	3.8070E+18	7.1799E+20
Cs-134	3.2450E+02	2.5080E-04	1.1271E+21	6.1201E+19
Cs-136	9.8473E+01	1.3436E-06	5.9495E+18	1.8639E+19
Cs-137	2.5195E+02	2.8965E-03	1.2732E+22	4.7515E+19
Ba-139	7.6679E+01	4.6878E-09	2.0310E+16	1.5050E+19
Ba-140	2.6083E+02	3.5629E-06	1.5326E+19	2.7240E+19
La-140	5.3748E+00	9.6698E-09	4.1595E+16	2.8747E+17
La-141	1.5844E+00	2.8017E-10	1.1966E+15	2.0499E+17
La-142	7.8506E-01	5.4842E-11	2.3258E+14	1.4377E+17
Ce-141	6.1910E+00	2.1728E-07	9.2799E+17	6.4508E+17
Ce-143	5.7306E+00	8.6293E-09	3.6340E+16	6.1225E+17
Ce-144	4.9625E+00	1.5559E-06	6.5069E+18	5.1690E+17
Pr-143	2.3684E+00	3.5172E-08	1.4812E+17	2.4621E+17
Nd-147	9.5793E-01	1.1841E-08	4.8509E+16	1.0008E+17
Np-239	6.8501E+01	2.9527E-07	7.4401E+17	7.2413E+18
Pu-238	1.5423E-02	9.0091E-07	2.2796E+18	1.6063E+15
Pu-239	1.5558E-03	2.5031E-05	6.3070E+19	1.6200E+14
Pu-240	2.7476E-03	1.2063E-06	3.0270E+18	2.8615E+14
Pu-241	6.1042E-01	6.1726E-06	1.5424E+19	6.3574E+16
Am-241	3.4542E-04	1.0083E-07	2.5195E+17	3.5964E+13
Cm-242	9.4828E-02	2.8647E-08	7.1287E+16	9.8781E+15
Cm-244	6.2727E-03	7.6635E-08	1.8914E+17	6.5329E+14

DW Transport Group Inventory:

Time (h) =	2.5000	Atmosphere	Sump
Noble gases (atoms)	2.4435E+25	0.0000E+00	
Elemental I (atoms)	4.0114E+18	7.8137E+22	
Organic I (atoms)	1.4334E+21	0.0000E+00	
Aerosols (kg)	3.4247E-03	6.5902E+01	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.0709E-06	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.2489E-06	
Total I (Ci)		1.9244E+05	

DW to WW Transport Group Inventory:

Time (h) = 2.5000 Leakage Transport

Noble gases (atoms)	4.0247E+26
Elemental I (atoms)	5.8256E+21
Organic I (atoms)	2.3704E+22
Aerosols (kg)	4.8407E+00

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WW to DW Transport Group Inventory:

Time (h) = 2.5000 Leakage Transport

Noble gases (atoms)	5.4439E+26
Elemental I (atoms)	9.9662E+21
Organic I (atoms)	3.2095E+22
Aerosols (kg)	8.2798E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 2.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3200E+22
Elemental I (atoms)	0.0000E+00	4.6894E+18
Organic I (atoms)	0.0000E+00	1.5692E+18
Aerosols (kg)	0.0000E+00	4.2228E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) = 2.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0787E+21
Elemental I (atoms)	0.0000E+00	2.6361E+17
Organic I (atoms)	0.0000E+00	1.3726E+17
Aerosols (kg)	0.0000E+00	2.2989E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 2.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6365E+21
Elemental I (atoms)	0.0000E+00	7.1480E+17
Organic I (atoms)	0.0000E+00	3.7220E+17
Aerosols (kg)	0.0000E+00	6.2338E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 2.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6365E+21
Elemental I (atoms)	0.0000E+00	7.1480E+17
Organic I (atoms)	0.0000E+00	3.7220E+17
Aerosols (kg)	0.0000E+00	6.2338E-04

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5321E-01	1.3556E-01	5.5965E-01
Accumulated dose (rem)	6.5696E-01	5.8206E+00	9.0645E-01

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6539E-01	6.5034E-02	2.6848E-01
Accumulated dose (rem)	3.0257E-01	8.5640E-01	3.3954E-01

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9376E-02	3.3408E+00	1.9003E-01
Accumulated dose (rem)	3.4506E-02	7.3026E+00	3.6635E-01

DW Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	5.1231E+05	2.5238E-05	1.8311E+20	2.6078E+21
Kr-85m	6.5958E+06	8.0148E-04	5.6784E+21	1.2001E+22
Kr-85	1.1496E+06	2.9330E+00	2.0780E+25	1.1287E+21
Kr-87	5.8597E+05	2.0687E-05	1.4320E+20	7.4796E+21
Kr-88	8.8470E+06	7.0554E-04	4.8283E+21	2.4037E+22
Rb-88	2.7909E+06	2.3119E-05	1.5821E+20	1.9287E+21
I-131	2.9599E+04	2.3875E-04	1.0976E+21	3.3157E+20
I-132	7.0738E+03	6.8530E-07	3.1265E+18	4.5142E+20
I-133	4.8332E+04	4.2665E-05	1.9318E+20	6.6370E+20
I-134	1.2960E+02	4.8581E-09	2.1833E+16	4.0304E+20
I-135	2.5771E+04	7.3382E-06	3.2735E+19	5.7990E+20
Xe-133	1.3560E+08	7.2441E-01	3.2801E+24	1.3573E+23
Xe-133m	3.9453E+06	8.9613E-03	4.0576E+22	4.0605E+21

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Xe-135	3.9026E+07	1.5282E-02	6.8170E+22	5.0812E+22
Xe-135m	4.5933E+03	5.0458E-08	2.2509E+17	1.5750E+21
Xe-138	8.4201E-03	8.7753E-14	3.8294E+11	7.2179E+20

DW Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	2.4180E+25	0.0000E+00	
Elemental I (atoms)	6.1827E-09	7.8144E+22	
Organic I (atoms)	1.3266E+21	0.0000E+00	
Aerosols (kg)	2.3119E-05	6.5911E+01	
Dose Effective (Ci/cc) I-131 (Thyroid)		4.4325E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.1806E-06	
Total I (Ci)		1.1090E+05	

DW to WW Transport Group Inventory:

Time (h) = 8.0000 Leakage Transport

Noble gases (atoms)	5.3991E+27
Elemental I (atoms)	5.8387E+21
Organic I (atoms)	3.0675E+23
Aerosols (kg)	4.8564E+00

WW to DW Transport Group Inventory:

Time (h) = 8.0000 Leakage Transport

Noble gases (atoms)	5.5410E+27
Elemental I (atoms)	9.9823E+21
Organic I (atoms)	3.1514E+23
Aerosols (kg)	8.3010E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.5232E+22
Elemental I (atoms)	0.0000E+00	4.6896E+18
Organic I (atoms)	0.0000E+00	5.6497E+18
Aerosols (kg)	0.0000E+00	4.2231E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.6087E+21
Elemental I (atoms)	0.0000E+00	2.6363E+17
Organic I (atoms)	0.0000E+00	5.0717E+17
Aerosols (kg)	0.0000E+00	2.2992E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3343E+22
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	1.3752E+18
Aerosols (kg)	0.0000E+00	6.2344E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3343E+22
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	1.3752E+18
Aerosols (kg)	0.0000E+00	6.2344E-04

EAB Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5291E-01	1.3600E-01	8.5895E-01	
Accumulated dose (rem)	1.5099E+00	5.9566E+00	1.7654E+00	

LPZ Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5589E-02	1.2784E-03	1.5645E-02	
Accumulated dose (rem)	3.1816E-01	8.5768E-01	3.5519E-01	

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CR Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.8886E-02	5.1980E-01	7.9425E-02
Accumulated dose (rem)		7.3392E-02	7.8224E+00	4.4578E-01

DW Compartment Nuclide Inventory:

Time (h) =	24.0000	Ci	kg	Atoms	Decay
Kr-83m		1.3036E+03	6.4218E-08	4.6594E+17	2.7901E+21
Kr-85m		5.4863E+05	6.6666E-05	4.7232E+20	1.7183E+22
Kr-85		1.1367E+06	2.9000E+00	2.0546E+25	3.5645E+21
Kr-87		9.4506E+01	3.3364E-09	2.3095E+16	7.6226E+21
Kr-88		1.7618E+05	1.4051E-05	9.6153E+19	2.8755E+22
Rb-88		4.6886E+05	3.8840E-06	2.6580E+19	2.2102E+21
I-131		2.7633E+04	2.2290E-04	1.0247E+21	3.9252E+20
I-132		5.6318E+01	5.4560E-09	2.4891E+16	4.5452E+20
I-133		2.8040E+04	2.4753E-05	1.1208E+20	7.4311E+20
I-134		4.1080E-04	1.5399E-14	6.9205E+10	4.0306E+20
I-135		4.7597E+03	1.3553E-06	6.0458E+18	6.0640E+20
Xe-133		1.2307E+08	6.5751E-01	2.9771E+24	4.1108E+23
Xe-133m		3.1712E+06	7.2031E-03	3.2615E+22	1.1612E+22
Xe-135		1.1400E+07	4.4639E-03	1.9913E+22	9.8644E+22
Xe-135m		2.2079E+03	2.4254E-08	1.0819E+17	1.5791E+21

DW Transport Group Inventory:

Time (h) =	24.0000	Atmosphere	Sump
Noble gases (atoms)		2.3576E+25	0.0000E+00
Elemental I (atoms)		6.6886E-87	7.8144E+22
Organic I (atoms)		1.1428E+21	0.0000E+00
Aerosols (kg)		3.8840E-06	6.5913E+01
Dose Effective (Ci/cc) I-131 (Thyroid)			3.7412E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.0974E-06
Total I (Ci)			6.0490E+04

DW to WW Transport Group Inventory:

Time (h) = 24.0000 Leakage Transport

Noble gases (atoms)	1.9678E+28
Elemental I (atoms)	5.8387E+21
Organic I (atoms)	1.0422E+24
Aerosols (kg)	4.8615E+00

WW to DW Transport Group Inventory:

Time (h) = 24.0000 Leakage Transport

Noble gases (atoms)	1.9820E+28
Elemental I (atoms)	9.9823E+21
Organic I (atoms)	1.0506E+24
Aerosols (kg)	8.3081E+00

DW to RB Transport Group Inventory:

	Pathway
Time (h) =	24.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.0108E+23
Elemental I (atoms)	0.0000E+00 4.6896E+18
Organic I (atoms)	0.0000E+00 1.6252E+19
Aerosols (kg)	0.0000E+00 4.2231E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway
Time (h) =	24.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.7270E+22
Elemental I (atoms)	0.0000E+00 2.6363E+17
Organic I (atoms)	0.0000E+00 1.4683E+18
Aerosols (kg)	0.0000E+00 2.2992E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway
Time (h) =	24.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 7.3945E+22
Elemental I (atoms)	0.0000E+00 7.1485E+17
Organic I (atoms)	0.0000E+00 3.9814E+18
Aerosols (kg)	0.0000E+00 6.2345E-04

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DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.3945E+22
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	3.9814E+18
Aerosols (kg)	0.0000E+00	6.2345E-04

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0113E-01	1.0623E-01	7.0459E-01
Accumulated dose (rem)	2.2110E+00	6.0628E+00	2.4700E+00

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4717E-03	5.4478E-04	5.4894E-03
Accumulated dose (rem)	3.2363E-01	8.5823E-01	3.6068E-01

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2587E-02	4.3360E-03	1.3118E-02
Accumulated dose (rem)	8.5979E-02	7.8267E+00	4.5890E-01

DW Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-83m	2.8272E-09	1.3928E-19	1.0105E+06	2.7905E+21
Kr-85m	7.7676E+00	9.4387E-10	6.6872E+15	1.7654E+22
Kr-85	1.1077E+06	2.8259E+00	2.0021E+25	1.4324E+22
Kr-88	4.0106E-03	3.1985E-13	2.1888E+12	2.8851E+22
Rb-88	1.0673E-02	8.8415E-14	6.0505E+11	2.2102E+21
I-131	2.0802E+04	1.6779E-04	7.7134E+20	6.2318E+20
I-132	2.0706E-08	2.0059E-18	9.1515E+06	4.5454E+20
I-133	2.4817E+03	2.1907E-06	9.9195E+18	8.4419E+20
I-135	2.4410E+00	6.9508E-10	3.1006E+15	6.1243E+20
Xe-133	8.1362E+07	4.3467E-01	1.9681E+24	1.3778E+24
Xe-133m	1.2170E+06	2.7644E-03	1.2517E+22	3.1178E+22
Xe-135	4.5912E+04	1.7979E-05	8.0199E+19	1.1839E+23
Xe-135m	1.1323E+00	1.2439E-11	5.5487E+13	1.5801E+21

DW Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	2.2002E+25	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.8144E+22
Organic I (atoms)	7.8126E+20	0.0000E+00
Aerosols (kg)	8.8415E-14	6.5913E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		2.4468E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.4756E-06
Total I (Ci)		2.3286E+04

DW to WW Transport Group Inventory:

Time (h) = 96.0000 Leakage Transport

Noble gases (atoms)	8.0914E+28
Elemental I (atoms)	5.8387E+21
Organic I (atoms)	3.5647E+24
Aerosols (kg)	4.8618E+00

WW to DW Transport Group Inventory:

Time (h) = 96.0000 Leakage Transport

Noble gases (atoms)	8.1056E+28
Elemental I (atoms)	9.9823E+21
Organic I (atoms)	3.5731E+24
Aerosols (kg)	8.3086E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.4408E+23
Elemental I (atoms)	0.0000E+00	4.6896E+18
Organic I (atoms)	0.0000E+00	3.4500E+19
Aerosols (kg)	0.0000E+00	4.2231E-03

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DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7300E+22
Elemental I (atoms)	0.0000E+00	2.6363E+17
Organic I (atoms)	0.0000E+00	3.1173E+18
Aerosols (kg)	0.0000E+00	2.2992E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8245E+23
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	8.4510E+18
Aerosols (kg)	0.0000E+00	6.2345E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8245E+23
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	8.4510E+18
Aerosols (kg)	0.0000E+00	6.2345E-04

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7600E-01	2.2478E-01	9.8284E-01
Accumulated dose (rem)	3.1870E+00	6.2876E+00	3.4528E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5224E-03	3.8176E-04	2.5341E-03
Accumulated dose (rem)	3.2616E-01	8.5861E-01	3.6321E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.7172E-03	3.1327E-03	7.8126E-03
Accumulated dose (rem)	9.3696E-02	7.8299E+00	4.6671E-01

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 720.0000				
Kr-85	8.8512E+05	2.2581E+00	1.5999E+25	9.6782E+22
I-131	1.7750E+03	1.4318E-05	6.5819E+19	1.2656E+21
I-133	1.8554E-06	1.6379E-15	7.4161E+09	8.5400E+20
Xe-133	2.1258E+06	1.1357E-02	5.1423E+22	3.1904E+24
Xe-133m	3.0209E+02	6.8617E-07	3.1069E+18	4.3359E+22

DW Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.6050E+25	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.8144E+22
Organic I (atoms)	6.5819E+19	0.0000E+00
Aerosols (kg)	5.1205E-80	6.5913E+01
Dose Effective (Ci/cc) I-131 (Thyroid)		2.0472E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.0472E-07
Total I (Ci)		1.7750E+03

DW to WW Transport Group Inventory:

Time (h) = 720.0000 Leakage Transport

Noble gases (atoms)	5.1162E+29
Elemental I (atoms)	5.8387E+21
Organic I (atoms)	1.0274E+25
Aerosols (kg)	4.8618E+00

WW to DW Transport Group Inventory:

Time (h) = 720.0000 Leakage Transport

Noble gases (atoms)	5.1176E+29
Elemental I (atoms)	9.9823E+21

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Organic I (atoms) 1.0282E+25
Aerosols (kg) 8.3086E+00

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8599E+24
Elemental I (atoms)	0.0000E+00	4.6896E+18
Organic I (atoms)	0.0000E+00	8.3038E+19
Aerosols (kg)	0.0000E+00	4.2231E-03

DW to Dummy (Equivalent Bypass Leakages) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4885E+23
Elemental I (atoms)	0.0000E+00	2.6363E+17
Organic I (atoms)	0.0000E+00	7.5032E+18
Aerosols (kg)	0.0000E+00	2.2992E-04

DW to Dummy (MSIV Failed Pathway 7) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4560E+23
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	2.0339E+19
Aerosols (kg)	0.0000E+00	6.2345E-04

DW to Dummy (Intact MSIV Pathway 8) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4560E+23
Elemental I (atoms)	0.0000E+00	7.1485E+17
Organic I (atoms)	0.0000E+00	2.0339E+19
Aerosols (kg)	0.0000E+00	6.2345E-04

933

I-131 Summary
#####

	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	5.3565E-04
0.017	1.8470E+05	0.0000E+00	4.8394E-01
0.083	9.2044E+05	0.0000E+00	1.2032E+01
0.333	3.6817E+06	0.0000E+00	1.9249E+02
0.500	6.8012E+05	0.0000E+00	2.6945E+02
0.750	9.4093E+05	0.0000E+00	3.3885E+02
1.000	9.4889E+05	0.0000E+00	4.1268E+02
1.400	9.5870E+05	0.0000E+00	5.3172E+02
1.700	9.6603E+05	0.0000E+00	6.2170E+02
2.000	9.7334E+05	0.0000E+00	7.1227E+02
2.200	8.0843E+04	5.7593E+04	7.2706E+02
2.250	5.9162E+04	4.0983E+04	7.2802E+02
2.300	4.6784E+04	3.1501E+04	7.2872E+02
2.350	3.9716E+04	2.6087E+04	7.2927E+02
2.400	3.5679E+04	2.2995E+04	7.2974E+02
2.450	3.3372E+04	2.1229E+04	7.3015E+02
2.500	3.2053E+04	2.0219E+04	7.3054E+02
2.800	3.0328E+04	1.8903E+04	7.3268E+02
3.100	3.0231E+04	1.8834E+04	7.3477E+02
3.400	3.0190E+04	1.8808E+04	7.3686E+02
3.700	3.0151E+04	1.8784E+04	7.3894E+02
4.000	3.0112E+04	1.8760E+04	7.4101E+02
4.300	3.0073E+04	1.8735E+04	7.4307E+02
4.600	3.0035E+04	1.8711E+04	7.4513E+02
4.900	2.9996E+04	1.8687E+04	7.4719E+02
5.200	2.9957E+04	1.8663E+04	7.4924E+02
5.500	2.9919E+04	1.8639E+04	7.5128E+02
5.800	2.9880E+04	1.8615E+04	7.5331E+02
6.100	2.9842E+04	1.8591E+04	7.5534E+02
6.400	2.9803E+04	1.8567E+04	7.5737E+02
6.700	2.9765E+04	1.8543E+04	7.5939E+02

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7.000	2.9727E+04	1.8519E+04	7.6140E+02
7.300	2.9688E+04	1.8495E+04	7.6341E+02
7.600	2.9650E+04	1.8472E+04	7.6541E+02
7.900	2.9612E+04	1.8448E+04	7.6740E+02
8.000	2.9599E+04	1.8440E+04	7.6807E+02
8.300	2.9561E+04	1.8416E+04	7.7005E+02
8.600	2.9523E+04	1.8393E+04	7.7204E+02
8.900	2.9485E+04	1.8369E+04	7.7401E+02
9.200	2.9447E+04	1.8345E+04	7.7598E+02
9.500	2.9409E+04	1.8322E+04	7.7794E+02
9.800	2.9371E+04	1.8298E+04	7.7990E+02
10.100	2.9333E+04	1.8274E+04	7.8186E+02
10.400	2.9296E+04	1.8251E+04	7.8380E+02
24.000	2.7633E+04	1.7215E+04	8.6618E+02
96.000	2.0802E+04	1.2959E+04	9.0927E+02
720.000	1.7750E+03	1.1058E+03	2.9239E+02

Time (hr)	RB	Env	CR
	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	3.4387E-02	5.2586E-07	3.6481E-10
0.017	3.1054E+01	1.4277E-02	9.8982E-06
0.083	7.7068E+02	1.7685E+00	3.2799E-04
0.333	1.0617E+03	2.0053E+01	3.5038E-03
0.500	1.1777E+03	3.5732E+01	6.0824E-03
0.750	1.2710E+03	6.0966E+01	9.9714E-03
1.000	1.3699E+03	8.8228E+01	1.3880E-02
1.400	1.4955E+03	8.9007E+01	1.2022E-02
1.700	1.5865E+03	8.9637E+01	1.0794E-02
2.000	1.6749E+03	9.0302E+01	9.6933E-03
2.200	1.6676E+03	9.0759E+01	9.0210E-03
2.250	1.6589E+03	9.0872E+01	8.8603E-03
2.300	1.6496E+03	9.0984E+01	8.7026E-03
2.350	1.6400E+03	9.1096E+01	8.5476E-03
2.400	1.6301E+03	9.1208E+01	8.3954E-03
2.450	1.6202E+03	9.1318E+01	8.2459E-03
2.500	1.6103E+03	9.1428E+01	8.0991E-03
2.800	1.5517E+03	9.2073E+01	7.2717E-03
3.100	1.4954E+03	9.2695E+01	6.5290E-03
3.400	1.4413E+03	9.3294E+01	5.8624E-03
3.700	1.3895E+03	9.3872E+01	5.2640E-03
4.000	1.3398E+03	9.4429E+01	4.7269E-03
4.300	1.2921E+03	9.4966E+01	4.2449E-03
4.600	1.2464E+03	9.5484E+01	3.8121E-03
4.900	1.2026E+03	9.5984E+01	3.4237E-03
5.200	1.1605E+03	9.6466E+01	3.0750E-03
5.500	1.1201E+03	9.6931E+01	2.7620E-03
5.800	1.0814E+03	9.7381E+01	2.4811E-03
6.100	1.0443E+03	9.7814E+01	2.2288E-03
6.400	1.0087E+03	9.8233E+01	2.0024E-03
6.700	9.7451E+02	9.8638E+01	1.7991E-03
7.000	9.4174E+02	9.9029E+01	1.6166E-03
7.300	9.1030E+02	9.9407E+01	1.4528E-03
7.600	8.8015E+02	9.9772E+01	1.3057E-03
7.900	8.5122E+02	1.0013E+02	1.1736E-03
8.000	8.4184E+02	1.0024E+02	1.1326E-03
8.300	8.1447E+02	1.0058E+02	1.0171E-03
8.600	7.8822E+02	1.0091E+02	9.1342E-04
8.900	7.6303E+02	1.0122E+02	8.2034E-04
9.200	7.3886E+02	1.0153E+02	7.3679E-04
9.500	7.1568E+02	1.0183E+02	6.6180E-04
9.800	6.9344E+02	1.0211E+02	5.9447E-04
10.100	6.7211E+02	1.0239E+02	5.3404E-04
10.400	6.5164E+02	1.0266E+02	4.7979E-04
24.000	2.3921E+02	1.0978E+02	5.7466E-06
96.000	6.3367E+01	1.1846E+02	3.6063E-07
720.000	5.4066E+00	1.3842E+02	2.2640E-08

#####

Cumulative Dose Summary

#####

Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	9.1664E-04	4.5228E-05	1.2479E-04	6.1570E-06	8.9558E-06	3.8315E-07
0.083	1.1347E-01	5.5753E-03	1.5447E-02	7.5900E-04	1.3129E-03	5.6799E-05
0.333	1.2841E+00	6.2469E-02	1.7482E-01	8.5042E-03	8.4230E-02	3.6405E-03

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```

0.500 2.2853E+00 1.1065E-01 3.1110E-01 1.5064E-02 2.2700E-01 9.8038E-03
0.750 3.8945E+00 1.8896E-01 5.3017E-01 2.5724E-02 5.8530E-01 2.5299E-02
1.000 5.6342E+00 2.7739E-01 7.6701E-01 3.7762E-02 1.1166E+00 4.8518E-02
1.400 5.6466E+00 2.8604E-01 7.7296E-01 4.1911E-02 2.0361E+00 8.9174E-02
1.700 5.6566E+00 2.9692E-01 7.7775E-01 4.7131E-02 2.6414E+00 1.1618E-01
2.000 5.6672E+00 3.1220E-01 7.8282E-01 5.4463E-02 3.1830E+00 1.4061E-01
2.200 5.6744E+00 3.2488E-01 7.8629E-01 6.0547E-02 3.5121E+00 1.5561E-01
2.250 5.6762E+00 3.2830E-01 7.8715E-01 6.2186E-02 3.5905E+00 1.5921E-01
2.300 5.6780E+00 3.3182E-01 7.8801E-01 6.3874E-02 3.6676E+00 1.6275E-01
2.350 5.6798E+00 3.3543E-01 7.8886E-01 6.5607E-02 3.7432E+00 1.6623E-01
2.400 5.6815E+00 3.3914E-01 7.8970E-01 6.7384E-02 3.8174E+00 1.6965E-01
2.450 5.6833E+00 3.4293E-01 7.9054E-01 6.9204E-02 3.8903E+00 1.7301E-01
2.500 5.6850E+00 3.4681E-01 7.9137E-01 7.1064E-02 3.9619E+00 1.7633E-01
2.800 5.6952E+00 3.7184E-01 7.9625E-01 8.3073E-02 4.3645E+00 1.9513E-01
3.100 5.7049E+00 3.9921E-01 8.0093E-01 9.6205E-02 4.7249E+00 2.1227E-01
3.400 5.7143E+00 4.2839E-01 8.0543E-01 1.1020E-01 5.0474E+00 2.2794E-01
3.700 5.7233E+00 4.5893E-01 8.0975E-01 1.2485E-01 5.3361E+00 2.4233E-01
4.000 5.7320E+00 4.9045E-01 8.1391E-01 1.3997E-01 5.5946E+00 2.5557E-01
4.300 5.7403E+00 5.2262E-01 8.1790E-01 1.5541E-01 5.8260E+00 2.6779E-01
4.600 5.7483E+00 5.5519E-01 8.2174E-01 1.7103E-01 6.0332E+00 2.7912E-01
4.900 5.7560E+00 5.8793E-01 8.2543E-01 1.8674E-01 6.2187E+00 2.8964E-01
5.200 5.7634E+00 6.2065E-01 8.2899E-01 2.0244E-01 6.3849E+00 2.9944E-01
5.500 5.7705E+00 6.5321E-01 8.3241E-01 2.1806E-01 6.5337E+00 3.0859E-01
5.800 5.7774E+00 6.8549E-01 8.3570E-01 2.3354E-01 6.6670E+00 3.1716E-01
6.100 5.7840E+00 7.1737E-01 8.3886E-01 2.4884E-01 6.7865E+00 3.2519E-01
6.400 5.7904E+00 7.4879E-01 8.4191E-01 2.6391E-01 6.8935E+00 3.3274E-01
6.700 5.7965E+00 7.7968E-01 8.4485E-01 2.7873E-01 6.9894E+00 3.3985E-01
7.000 5.8024E+00 8.1000E-01 8.4768E-01 2.9327E-01 7.0754E+00 3.4655E-01
7.300 5.8081E+00 8.3969E-01 8.5041E-01 3.0752E-01 7.1524E+00 3.5288E-01
7.600 5.8135E+00 8.6874E-01 8.5304E-01 3.2145E-01 7.2215E+00 3.5886E-01
7.900 5.8188E+00 8.9714E-01 8.5558E-01 3.3507E-01 7.2834E+00 3.6453E-01
8.000 5.8206E+00 9.0645E-01 8.5640E-01 3.3954E-01 7.3026E+00 3.6635E-01
8.300 5.8256E+00 9.3395E-01 8.5645E-01 3.4004E-01 7.3561E+00 3.7156E-01
8.600 5.8305E+00 9.6077E-01 8.5650E-01 3.4053E-01 7.4041E+00 3.7633E-01
8.900 5.8352E+00 9.8692E-01 8.5654E-01 3.4101E-01 7.4471E+00 3.8070E-01
9.200 5.8397E+00 1.0124E+00 8.5658E-01 3.4147E-01 7.4856E+00 3.8469E-01
9.500 5.8441E+00 1.0372E+00 8.5662E-01 3.4192E-01 7.5201E+00 3.8833E-01
9.800 5.8483E+00 1.0614E+00 8.5666E-01 3.4236E-01 7.5510E+00 3.9167E-01
10.100 5.8524E+00 1.0849E+00 8.5670E-01 3.4279E-01 7.5787E+00 3.9473E-01
10.400 5.8563E+00 1.1078E+00 8.5674E-01 3.4321E-01 7.6035E+00 3.9754E-01
24.000 5.9566E+00 1.7654E+00 8.5768E-01 3.5519E-01 7.8224E+00 4.4578E-01
96.000 6.0628E+00 2.4700E+00 8.5823E-01 3.6068E-01 7.8267E+00 4.5890E-01
720.000 6.2876E+00 3.4528E+00 8.5861E-01 3.6321E-01 7.8299E+00 4.6671E-01

```

```

#####
Worst Two-Hour Doses
#####

```

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.0	6.9966E-02	5.6672E+00	3.1220E-01

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Attachment 13.9 – RADTRAD Output File “NMP2CL22.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:48
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2CL22.psf
Inventory file  = C:\radtrad3.03\NMP2\nmp2.nif
Release file    = C:\radtrad3.03\NMP2\BWR_DBA.RFT
Dose Conversion file = C:\radtrad3.03\NMP2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

Radtrad 3.03 4/15/2001

NMP2 - Containment Leakage from Drywell & Wetwell (DW+WW) Using CAVEX Core Inventory - External Cloud Dose

Nuclide Inventory File:

C:\radtrad3.03\NMP2\nmp2.nif

Plant Power Level:

4.0670E+03

Compartments:

6

Compartment 1:

DW

3

3.0620E+05

1

0

0

0

0

Compartment 2:

WW

3

1.9080E+05

0

0

0

0

0

Compartment 3:

Dummy

3

1.0000E+02

0

0

0

0

0

Compartment 4:

RB

3

1.9400E+06

0

0

0

0

0

Compartment 5:

Environment

2

0.0000E+00

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```

0
0
0
0
0
Compartment 6:
CR
1
3.8100E+05
0
0
1
0
0
Pathways:
13
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW to RB
1
4
2
Pathway 4:
WW to RB
2
4
2
Pathway 5:
CR Filtered Intake
5
6
2
Pathway 6:
CR Unfiltered Inleakage
5
6
2
Pathway 7:
CR Exhaust to Environment
6
5
2
Pathway 8:
Drawdown Release from RB to Environment
4
5
2
Pathway 9:
RB Exhaust to Environment
4
5
2
Pathway 10:
DW to Dummy (Bypass Pathway 5)
1
3
2
Pathway 11:
WW to Dummy (Bypass Pathway 6)
2
3
2
Pathway 12:
DW to Dummy (MSIV Failed Pathway 7)
1
3
2
Pathway 13:
DW to Dummy (Intact MSIV Pathway 8)

```

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```

1
3
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1      1.0000E+00
C:\radtrad3.03\NMP2\nmp2.inp
C:\radtrad3.03\NMP2\BWR_DBA.RFT
0.0000E+00
1
9.5000E-01  4.8500E-02  1.5000E-03  1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
6
Compartment 1:
0
1
1
0.0000E+00
6
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  0.0000E+00
2.4000E+00  0.0000E+00
6.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
6
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  1.9800E+01
2.4000E+00  0.0000E+00
6.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
Compartment 4:
0
1
0
0

```

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```

0
0
0
0
0
0
Compartment 5:
0
1
0
0
0
0
0
0
0
0
0
Compartment 6:
0
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Pathways:
13
Pathway 1:
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  8.9710E+04
7.2000E+02  0.0000E+00
0
Pathway 2:
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  1.4400E+05
7.2000E+02  0.0000E+00
0
Pathway 3:
0
0
0
0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

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```

0
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
0
1
2
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 8:
0
0
0

```

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```

0
0
1
2
0.0000E+00  2.6700E+03  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  4.4000E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00  2.4930E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.2470E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00  1.1200E-02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  5.6000E-03  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0

```

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```

0
0
Pathway 13:
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
5
1
3
0.0000E+00  1.1900E-04
1.0000E+00  2.9600E-05
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
CR Intake
5
1
7
0.0000E+00  1.4700E-03
1.0000E+00  8.0300E-05
2.0000E+00  4.4800E-05
8.0000E+00  1.6800E-05
2.4000E+01  1.2000E-05
9.6000E+01  8.8300E-06
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
6
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  3.5000E-04
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
7
0.0000E+00  1.4700E-03
1.0000E+00  8.0300E-05
2.0000E+00  4.4800E-05
8.0000E+00  1.6800E-05
2.4000E+01  1.2000E-05
9.6000E+01  8.8300E-06
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02

```

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1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

Output Filename:

C:\radtrad3.o573

1

1

1

0

0

End of Scenario File

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:48
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 6

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW to RB

Exit Pathway Number 10: DW to Dummy (Bypass Pathway 5)

Exit Pathway Number 12: DW to Dummy (MSIV Failed Pathway 7)

Exit Pathway Number 13: DW to Dummy (Intact MSIV Pathway 8)

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW to RB

Exit Pathway Number 11: WW to Dummy (Bypass Pathway 6)

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 10: DW to Dummy (Bypass Pathway 5)

Inlet Pathway Number 11: WW to Dummy (Bypass Pathway 6)

Inlet Pathway Number 12: DW to Dummy (MSIV Failed Pathway 7)

Inlet Pathway Number 13: DW to Dummy (Intact MSIV Pathway 8)

Compartment number 4

Name: RB

Compartment volume = 1.9400E+06 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 4

Inlet Pathway Number 3: DW to RB

Inlet Pathway Number 4: WW to RB

Exit Pathway Number 8: Drawdown Release from RB to Environment

Exit Pathway Number 9: RB Exhaust to Environment

Compartment number 5

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 5

Inlet Pathway Number 7: CR Exhaust to Environment

Inlet Pathway Number 8: Drawdown Release from RB to Environment

Inlet Pathway Number 9: RB Exhaust to Environment

Exit Pathway Number 5: CR Filtered Intake

Exit Pathway Number 6: CR Unfiltered Inleakage

Compartment number 6

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 504
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Pathways into and out of compartment 6

Inlet Pathway Number 5: CR Filtered Intake

Inlet Pathway Number 6: CR Unfiltered Inleakage

Exit Pathway Number 7: CR Exhaust to Environment

Total number of pathways = 13

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:48
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
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0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: RB

Compartment number 5: Environment

Compartment number 6: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: CR Unfiltered Inleakage

Pathway Filter: Removal Data

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Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: Drawdown Release from RB to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	4.4000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Dummy (Bypass Pathway 5)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.2470E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: WW to Dummy (Bypass Pathway 6)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.6000E-03	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: DW to Dummy (MSIV Failed Pathway 7)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: DW to Dummy (Intact MSIV Pathway 8)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 5

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Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location CR Intake is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 6

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:48:48
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Dose Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	
Accumulated dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	

CR Intake Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.9478E-05	1.1323E-02	5.5869E-04	
Accumulated dose (rem)	7.9478E-05	1.1323E-02	5.5869E-04	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	
Accumulated dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6682E-04	1.1255E-01	5.5301E-03	
Accumulated dose (rem)	7.7325E-04	1.1347E-01	5.5753E-03	

CR Intake Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4725E-03	1.3903E+00	6.8313E-02	
Accumulated dose (rem)	9.5519E-03	1.4017E+00	6.8872E-02	

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2185E-06	1.3040E-03	5.6416E-05	
Accumulated dose (rem)	1.2226E-06	1.3129E-03	5.6799E-05	

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3503E-03	1.1707E+00	5.6894E-02	
Accumulated dose (rem)	8.1235E-03	1.2841E+00	6.2469E-02	

CR Intake Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0798E-02	1.4461E+01	7.0281E-01	
Accumulated dose (rem)	1.0035E-01	1.5863E+01	7.7168E-01	

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0934E-05	8.2917E-02	3.5837E-03	
Accumulated dose (rem)	7.2157E-05	8.4230E-02	3.6405E-03	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	5.8173E-03	1.0011E+00	4.8186E-02
Accumulated dose (rem)	1.3941E-02	2.2853E+00	1.1065E-01

CR Intake Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1861E-02	1.2367E+01	5.9523E-01	
Accumulated dose (rem)	1.7221E-01	2.8230E+01	1.3669E+00	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1051E-04	1.4277E-01	6.1633E-03	
Accumulated dose (rem)	1.8267E-04	2.2700E-01	9.8038E-03	

EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2696E-02	3.3490E+00	1.6673E-01	
Accumulated dose (rem)	3.6637E-02	5.6342E+00	2.7739E-01	

CR Intake Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8036E-01	4.1370E+01	2.0596E+00	
Accumulated dose (rem)	4.5257E-01	6.9599E+01	3.4266E+00	

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6580E-04	8.8956E-01	3.8714E-02	
Accumulated dose (rem)	9.4847E-04	1.1166E+00	4.8518E-02	

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3329E-02	3.2957E-02	3.4814E-02	
Accumulated dose (rem)	6.9966E-02	5.6672E+00	3.1220E-01	

CR Intake Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0416E-02	8.9407E-02	9.4444E-02	
Accumulated dose (rem)	5.4299E-01	6.9689E+01	3.5210E+00	

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6382E-03	2.0665E+00	9.2093E-02	
Accumulated dose (rem)	3.5866E-03	3.1830E+00	1.4061E-01	

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5680E-02	9.0279E-03	1.6099E-02	
Accumulated dose (rem)	8.5646E-02	5.6762E+00	3.2830E-01	

CR Intake Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3732E-02	1.3664E-02	2.4365E-02	
Accumulated dose (rem)	5.6672E-01	6.9702E+01	3.5454E+00	

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.5884E-04	4.0752E-01	1.8599E-02	
Accumulated dose (rem)	4.3455E-03	3.5905E+00	1.5921E-01	

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0633E-02	5.3108E-03	1.0880E-02	
Accumulated dose (rem)	9.6279E-02	5.6815E+00	3.3918E-01	

CR Intake Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	1.6093E-02	8.0380E-03	1.6467E-02
Accumulated dose (rem)	5.8281E-01	6.9710E+01	3.5618E+00

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6879E-04	2.2697E-01	1.0443E-02	
Accumulated dose (rem)	4.8143E-03	3.8175E+00	1.6965E-01	

EAB Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6310E-01	1.0335E-01	3.6804E-01	
Accumulated dose (rem)	4.5938E-01	5.7849E+00	7.0722E-01	

CR Intake Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4955E-01	1.5642E-01	5.5703E-01	
Accumulated dose (rem)	1.1324E+00	6.9867E+01	4.1189E+00	

CR Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7084E-02	2.9309E+00	1.5297E-01	
Accumulated dose (rem)	2.1898E-02	6.7484E+00	3.2262E-01	

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9789E-01	4.2284E-02	1.9993E-01	
Accumulated dose (rem)	6.5726E-01	5.8272E+00	9.0714E-01	

CR Intake Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9951E-01	6.3997E-02	3.0259E-01	
Accumulated dose (rem)	1.4319E+00	6.9931E+01	4.4215E+00	

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2620E-02	5.5485E-01	4.3800E-02	
Accumulated dose (rem)	3.4518E-02	7.3033E+00	3.6642E-01	

EAB Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5337E-01	1.8054E-01	8.6186E-01	
Accumulated dose (rem)	1.5106E+00	6.0077E+00	1.7690E+00	

CR Intake Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8434E-01	1.0247E-01	4.8916E-01	
Accumulated dose (rem)	1.9162E+00	7.0033E+01	4.9106E+00	

CR Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8892E-02	5.2273E-01	7.9591E-02	
Accumulated dose (rem)	7.3409E-02	7.8260E+00	4.4601E-01	

EAB Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0143E-01	2.0758E-01	7.1107E-01	
Accumulated dose (rem)	2.2121E+00	6.2153E+00	2.4801E+00	

CR Intake Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8436E-01	8.4155E-02	2.8827E-01	
Accumulated dose (rem)	2.2006E+00	7.0117E+01	5.1989E+00	

CR Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	1.2590E-02	7.3920E-03	1.3307E-02
Accumulated dose (rem)	8.5999E-02	7.8334E+00	4.5932E-01

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7638E-01	4.6211E-01	1.0110E+00
Accumulated dose (rem)	3.1884E+00	6.6774E+00	3.4911E+00

CR Intake Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9126E-01	1.3785E-01	3.0160E-01
Accumulated dose (rem)	2.4918E+00	7.0255E+01	5.5005E+00

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.7181E-03	6.4402E-03	8.2001E-03
Accumulated dose (rem)	9.3718E-02	7.8398E+00	4.6752E-01

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 I-131 Summary
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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	5.3565E-04
0.017	1.8470E+05	0.0000E+00	4.8394E-01
0.083	9.2044E+05	0.0000E+00	1.2032E+01
0.333	3.6817E+06	0.0000E+00	1.9249E+02
0.500	6.8012E+05	0.0000E+00	2.6945E+02
0.750	9.4093E+05	0.0000E+00	3.3885E+02
1.000	9.4889E+05	0.0000E+00	4.1268E+02
1.400	9.5870E+05	0.0000E+00	5.3172E+02
1.700	9.6603E+05	0.0000E+00	6.2170E+02
2.000	9.7334E+05	0.0000E+00	7.1227E+02
2.250	5.9162E+04	4.0983E+04	7.2802E+02
2.400	6.0403E+04	3.7668E+04	7.3051E+02
2.700	6.0349E+04	3.7597E+04	7.3546E+02
3.000	6.0272E+04	3.7549E+04	7.4040E+02
3.300	6.0196E+04	3.7501E+04	7.4532E+02
3.600	6.0119E+04	3.7454E+04	7.5023E+02
3.900	6.0043E+04	3.7406E+04	7.5513E+02
4.200	5.9966E+04	3.7358E+04	7.6001E+02
4.500	5.9890E+04	3.7311E+04	7.6488E+02
4.800	5.9814E+04	3.7263E+04	7.6974E+02
5.100	5.9738E+04	3.7216E+04	7.7459E+02
5.400	5.9662E+04	3.7169E+04	7.7943E+02
5.700	5.9586E+04	3.7121E+04	7.8425E+02
6.000	5.9510E+04	3.7074E+04	7.8906E+02
6.300	5.9434E+04	3.7027E+04	7.9386E+02
6.600	5.9359E+04	3.6980E+04	7.9865E+02
6.900	5.9283E+04	3.6933E+04	8.0342E+02
7.200	5.9208E+04	3.6886E+04	8.0818E+02
7.500	5.9132E+04	3.6839E+04	8.1293E+02
7.800	5.9057E+04	3.6792E+04	8.1767E+02
8.000	5.9007E+04	3.6761E+04	8.2082E+02
8.300	5.8932E+04	3.6714E+04	8.2553E+02
8.600	5.8857E+04	3.6667E+04	8.3024E+02
8.900	5.8782E+04	3.6621E+04	8.3493E+02
9.200	5.8707E+04	3.6574E+04	8.3961E+02
9.500	5.8632E+04	3.6527E+04	8.4428E+02
9.800	5.8558E+04	3.6481E+04	8.4893E+02
10.100	5.8483E+04	3.6434E+04	8.5358E+02
10.400	5.8409E+04	3.6388E+04	8.5821E+02
24.000	5.5126E+04	3.4343E+04	1.0558E+03
96.000	4.1555E+04	2.5888E+04	1.2952E+03
720.000	3.5475E+03	2.2101E+03	5.2888E+02

	RB	Environment	CR
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	3.4387E-02	5.2586E-07	3.6481E-10
0.017	3.1054E+01	1.4277E-02	9.8982E-06
0.083	7.7068E+02	1.7685E+00	3.2799E-04
0.333	1.0617E+03	2.0053E+01	3.5038E-03

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0.500	1.1777E+03	3.5732E+01	6.0824E-03
0.750	1.2710E+03	6.0966E+01	9.9714E-03
1.000	1.3699E+03	8.8228E+01	1.3880E-02
1.400	1.4955E+03	8.9007E+01	1.2022E-02
1.700	1.5865E+03	8.9637E+01	1.0794E-02
2.000	1.6749E+03	9.0302E+01	9.6933E-03
2.250	1.6589E+03	9.0872E+01	8.8603E-03
2.400	1.6320E+03	9.1208E+01	8.3954E-03
2.700	1.5797E+03	9.1863E+01	7.5376E-03
3.000	1.5295E+03	9.2498E+01	6.7677E-03
3.300	1.4814E+03	9.3112E+01	6.0767E-03
3.600	1.4352E+03	9.3707E+01	5.4564E-03
3.900	1.3908E+03	9.4284E+01	4.8997E-03
4.200	1.3483E+03	9.4843E+01	4.4000E-03
4.500	1.3075E+03	9.5385E+01	3.9515E-03
4.800	1.2684E+03	9.5910E+01	3.5489E-03
5.100	1.2309E+03	9.6420E+01	3.1876E-03
5.400	1.1948E+03	9.6915E+01	2.8632E-03
5.700	1.1603E+03	9.7396E+01	2.5720E-03
6.000	1.1271E+03	9.7863E+01	2.3106E-03
6.300	1.0953E+03	9.8316E+01	2.0760E-03
6.600	1.0647E+03	9.8757E+01	1.8653E-03
6.900	1.0354E+03	9.9186E+01	1.6762E-03
7.200	1.0073E+03	9.9603E+01	1.5065E-03
7.500	9.8032E+02	1.0001E+02	1.3541E-03
7.800	9.5443E+02	1.0040E+02	1.2173E-03
8.000	9.3774E+02	1.0066E+02	1.1339E-03
8.300	9.1356E+02	1.0104E+02	1.0183E-03
8.600	8.9036E+02	1.0141E+02	9.1459E-04
8.900	8.6809E+02	1.0177E+02	8.2147E-04
9.200	8.4671E+02	1.0212E+02	7.3790E-04
9.500	8.2619E+02	1.0246E+02	6.6287E-04
9.800	8.0650E+02	1.0279E+02	5.9553E-04
10.100	7.8760E+02	1.0311E+02	5.3508E-04
10.400	7.6945E+02	1.0343E+02	4.8082E-04
24.000	3.9779E+02	1.1325E+02	6.9706E-06
96.000	1.2658E+02	1.2979E+02	7.2039E-07
720.000	1.0806E+01	1.6968E+02	4.5247E-08

#####

Cumulative Dose Summary

#####

Time (hr)	EAB		CR Intake		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	9.1664E-04	4.5228E-05	1.1323E-02	5.5869E-04	8.9558E-06	3.8315E-07
0.083	1.1347E-01	5.5753E-03	1.4017E+00	6.8872E-02	1.3129E-03	5.6799E-05
0.333	1.2841E+00	6.2469E-02	1.5863E+01	7.7168E-01	8.4230E-02	3.6405E-03
0.500	2.2853E+00	1.1065E-01	2.8230E+01	1.3669E+00	2.2700E-01	9.8038E-03
0.750	3.8945E+00	1.8896E-01	4.8108E+01	2.3342E+00	5.8530E-01	2.5299E-02
1.000	5.6342E+00	2.7739E-01	6.9599E+01	3.4266E+00	1.1166E+00	4.8518E-02
1.400	5.6466E+00	2.8604E-01	6.9633E+01	3.4500E+00	2.0361E+00	8.9174E-02
1.700	5.6566E+00	2.9692E-01	6.9660E+01	3.4795E+00	2.6414E+00	1.1618E-01
2.000	5.6672E+00	3.1220E-01	6.9689E+01	3.5210E+00	3.1830E+00	1.4061E-01
2.250	5.6762E+00	3.2830E-01	6.9702E+01	3.5454E+00	3.5905E+00	1.5921E-01
2.400	5.6815E+00	3.3918E-01	6.9710E+01	3.5618E+00	3.8175E+00	1.6965E-01
2.700	5.6919E+00	3.6331E-01	6.9726E+01	3.5984E+00	4.2354E+00	1.8908E-01
3.000	5.7018E+00	3.8998E-01	6.9741E+01	3.6387E+00	4.6093E+00	2.0676E-01
3.300	5.7115E+00	4.1863E-01	6.9756E+01	3.6821E+00	4.9440E+00	2.2291E-01
3.600	5.7208E+00	4.4879E-01	6.9770E+01	3.7277E+00	5.2436E+00	2.3770E-01
3.900	5.7297E+00	4.8004E-01	6.9783E+01	3.7750E+00	5.5117E+00	2.5131E-01
4.200	5.7384E+00	5.1206E-01	6.9796E+01	3.8235E+00	5.7518E+00	2.6386E-01
4.500	5.7468E+00	5.4455E-01	6.9809E+01	3.8727E+00	5.9668E+00	2.7548E-01
4.800	5.7549E+00	5.7729E-01	6.9821E+01	3.9222E+00	6.1593E+00	2.8626E-01
5.100	5.7628E+00	6.1007E-01	6.9833E+01	3.9718E+00	6.3317E+00	2.9630E-01
5.400	5.7704E+00	6.4274E-01	6.9845E+01	4.0213E+00	6.4861E+00	3.0566E-01
5.700	5.7777E+00	6.7515E-01	6.9856E+01	4.0703E+00	6.6245E+00	3.1441E-01
6.000	5.7849E+00	7.0722E-01	6.9867E+01	4.1189E+00	6.7484E+00	3.2262E-01
6.300	5.7918E+00	7.3884E-01	6.9877E+01	4.1667E+00	6.8595E+00	3.3033E-01
6.600	5.7985E+00	7.6995E-01	6.9887E+01	4.2138E+00	6.9590E+00	3.3758E-01
6.900	5.8050E+00	8.0050E-01	6.9897E+01	4.2600E+00	7.0482E+00	3.4442E-01
7.200	5.8112E+00	8.3044E-01	6.9907E+01	4.3054E+00	7.1282E+00	3.5087E-01
7.500	5.8174E+00	8.5975E-01	6.9916E+01	4.3497E+00	7.1999E+00	3.5697E-01
7.800	5.8233E+00	8.8841E-01	6.9925E+01	4.3931E+00	7.2641E+00	3.6274E-01
8.000	5.8272E+00	9.0714E-01	6.9931E+01	4.4215E+00	7.3033E+00	3.6642E-01
8.300	5.8328E+00	9.3468E-01	6.9934E+01	4.4371E+00	7.3569E+00	3.7163E-01

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8.600	5.8383E+00	9.6155E-01	6.9937E+01	4.4523E+00	7.4049E+00	3.7641E-01
8.900	5.8436E+00	9.8774E-01	6.9940E+01	4.4672E+00	7.4479E+00	3.8078E-01
9.200	5.8488E+00	1.0133E+00	6.9943E+01	4.4817E+00	7.4865E+00	3.8477E-01
9.500	5.8539E+00	1.0381E+00	6.9946E+01	4.4958E+00	7.5210E+00	3.8842E-01
9.800	5.8588E+00	1.0623E+00	6.9949E+01	4.5095E+00	7.5520E+00	3.9176E-01
10.100	5.8636E+00	1.0859E+00	6.9951E+01	4.5229E+00	7.5798E+00	3.9482E-01
10.400	5.8683E+00	1.1089E+00	6.9954E+01	4.5360E+00	7.6047E+00	3.9764E-01
24.000	6.0077E+00	1.7690E+00	7.0033E+01	4.9106E+00	7.8260E+00	4.4601E-01
96.000	6.2153E+00	2.4801E+00	7.0117E+01	5.1989E+00	7.8334E+00	4.5932E-01
720.000	6.6774E+00	3.4911E+00	7.0255E+01	5.5005E+00	7.8398E+00	4.6752E-01

Worst Two-Hour Doses
#####

EAB

Time	Whole Body	Thyroid	TEDE
(hr)	(rem)	(rem)	(rem)
0.0	6.9966E-02	5.6672E+00	3.1220E-01

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Attachment 13.10 – RADTRAD Output File “NMP2ES22.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/19/2020 at 16:43:13
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2ES22.psf
Inventory file  = C:\radtrad3.03\NMP2\nmp2.nif
Release file    = C:\radtrad3.03\NMP2\BWR_I.RFT
Dose Conversion file = C:\radtrad3.03\NMP2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Post-LOCA ESF Leakage - CAVEX Core Inventory - External Cloud WB Dose
Nuclide Inventory File:
C:\radtrad3.03\NMP2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartment:
4
Compartment 1:
Pool
3
1.4500E+05
0
0
0
0
0
Compartment 2:
RB
3
1.9400E+06
0
0
0
0
0
0
Compartment 3:
Environment
2
0.0000E+00
0
0
0
0
0
Compartment 4:
CR
1
3.8100E+05
0
0
1
0
0
Pathways:
6
Pathway 1:
CR Filtered Intake
3
```

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```

4
2
Pathway 2:
CR Unfiltered Inleakage
3
4
2
Pathway 3:
CR Exhaust to Environment
4
3
2
Pathway 4:
RB Drawdown Release to Environment
2
3
2
Pathway 5:
RB Exhaust to Environment
2
3
2
Pathway 6:
ESF leakage to RB
1
2
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
C:\radtrad3.03\NMP2\nmp2.inp
C:\radtrad3.03\NMP2\BWR_I.RFT
0.0000E+00
1
0.0000E+00 9.7000E-01 3.0000E-02 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
4
Compartment 1:
0
1
0
0
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0

```

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```

0
Compartment 4:
0
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Pathways:
6
Pathway 1:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 2:
0
0
0
0
0
1
2
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 3:
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
1
2
0.0000E+00  2.6700E+03  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

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```

0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  4.4000E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
1
2
0.0000E+00  8.2900E+00  0.0000E+00  9.0000E+01  9.0000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
3
1
3
0.0000E+00  1.1900E-04
1.0000E+00  2.9600E-05
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
CR Intake
3
1
7
0.0000E+00  1.4700E-03
1.0000E+00  8.0300E-05
2.0000E+00  4.4800E-05
8.0000E+00  1.6800E-05
2.4000E+01  1.2000E-05
9.6000E+01  8.8300E-06
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
4
0
1
2
0.0000E+00  3.5000E-04

```


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```

7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00

```

Effective Volume Location:

```

1
7
0.0000E+00  1.4700E-03
1.0000E+00  8.0300E-05
2.0000E+00  4.4800E-05
8.0000E+00  1.6800E-05
2.4000E+01  1.2000E-05
9.6000E+01  8.8300E-06
7.2000E+02  0.0000E+00

```

Simulation Parameters:

```

7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00

```

Output Filename:

C:\radtrad3.o583

```

1
1
1
0
0

```

End of Scenario File

```

#####
RADTRAD Version 3.03 (Spring 2001) run on 3/19/2020 at 16:43:13
#####
#####
Plant Description
#####

```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
Plant Power Level = 4.0670E+03 MWth

Number of compartments = 4

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00)

Name: Pool

Compartment volume = 1.4500E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 1

Exit Pathway Number 6: ESF leakage to RB

Compartment number 2

Name: RB

Compartment volume = 1.9400E+06 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 6: ESF leakage to RB

Exit Pathway Number 4: RB Drawdown Release to Environment

Exit Pathway Number 5: RB Exhaust to Environment

Compartment number 3

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 3

Inlet Pathway Number 3: CR Exhaust to Environment

Inlet Pathway Number 4: RB Drawdown Release to Environment

Inlet Pathway Number 5: RB Exhaust to Environment

Exit Pathway Number 1: CR Filtered Intake

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Exit Pathway Number 2: CR Unfiltered Inleakage

Compartment number 4

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 4

Inlet Pathway Number 1: CR Filtered Intake

Inlet Pathway Number 2: CR Unfiltered Inleakage

Exit Pathway Number 3: CR Exhaust to Environment

Total number of pathways = 6

 RADTRAD Version 3.03 (Spring 2001) run on 3/19/2020 at 16:43:13
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
TELLURIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
STRONTIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
BARIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
RUTHENIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
CERIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
LANTHANUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00

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Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	0.0000E+00
Elemental	=	9.7000E-01
Organic	=	3.0000E-02

COMPARTMENT DATA

Compartment number 1: Pool

Compartment number 2: RB

Compartment number 3: Environment

Compartment number 4: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 2: CR Unfiltered Inleakage

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 3: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: RB Drawdown Release to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	4.4000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: ESF leakage to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.2900E+00	0.0000E+00	9.0000E+01	9.0000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 3

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location CR Intake is in compartment 3

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01

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8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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RADTRAD Version 3.03 (Spring 2001) run on 3/19/2020 at 16:43:13
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Dose Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6236E-08	1.5457E-05	5.6519E-07	
Accumulated dose (rem)	7.6236E-08	1.5457E-05	5.6519E-07	

CR Intake Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4174E-07	1.9094E-04	6.9817E-06	
Accumulated dose (rem)	9.4174E-07	1.9094E-04	6.9817E-06	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8862E-11	1.5102E-07	4.8260E-09	
Accumulated dose (rem)	4.8862E-11	1.5102E-07	4.8260E-09	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8012E-03	4.0805E-01	1.4683E-02	
Accumulated dose (rem)	1.8012E-03	4.0806E-01	1.4684E-02	

CR Intake Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2250E-02	5.0406E+00	1.8138E-01	
Accumulated dose (rem)	2.2251E-02	5.0408E+00	1.8139E-01	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8865E-06	2.5300E-02	8.0646E-04	
Accumulated dose (rem)	7.8866E-06	2.5300E-02	8.0647E-04	

EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1939E-02	3.0721E+00	1.0874E-01	
Accumulated dose (rem)	1.3741E-02	3.4801E+00	1.2342E-01	

CR Intake Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4749E-01	3.7949E+01	1.3432E+00	
Accumulated dose (rem)	1.6974E-01	4.2990E+01	1.5246E+00	

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0696E-04	3.7635E-01	1.1963E-02	

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Accumulated dose (rem) 1.1485E-04 4.0165E-01 1.2770E-02

EAB Doses:

Time (h) = 2.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 2.5541E-03 1.1430E-01 6.1462E-03
 Accumulated dose (rem) 1.6295E-02 3.5944E+00 1.2957E-01

CR Intake Doses:

Time (h) = 2.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 6.9289E-03 3.1007E-01 1.6674E-02
 Accumulated dose (rem) 1.7666E-01 4.3300E+01 1.5413E+00

CR Doses:

Time (h) = 2.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 3.3972E-04 1.3690E+00 4.3369E-02
 Accumulated dose (rem) 4.5457E-04 1.7707E+00 5.6138E-02

EAB Doses:

Time (h) = 8.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 1.1612E-01 3.9022E+00 2.3778E-01
 Accumulated dose (rem) 1.3242E-01 7.4966E+00 3.6734E-01

CR Intake Doses:

Time (h) = 8.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 1.7575E-01 5.9060E+00 3.5988E-01
 Accumulated dose (rem) 3.5242E-01 4.9206E+01 1.9012E+00

CR Doses:

Time (h) = 8.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 3.4699E-03 3.0765E+00 9.9570E-02
 Accumulated dose (rem) 3.9244E-03 4.8472E+00 1.5571E-01

EAB Doses:

Time (h) = 24.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 8.1056E-01 1.9200E+01 1.4039E+00
 Accumulated dose (rem) 9.4298E-01 2.6697E+01 1.7712E+00

CR Intake Doses:

Time (h) = 24.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 4.6005E-01 1.0897E+01 7.9680E-01
 Accumulated dose (rem) 8.1247E-01 6.0103E+01 2.6980E+00

CR Doses:

Time (h) = 24.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 2.0956E-02 1.6660E+00 7.2486E-02
 Accumulated dose (rem) 2.4880E-02 6.5131E+00 2.2819E-01

EAB Doses:

Time (h) = 96.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 1.0856E+00 6.7231E+01 3.1428E+00
 Accumulated dose (rem) 2.0286E+00 9.3928E+01 4.9140E+00

CR Intake Doses:

Time (h) = 96.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 4.4013E-01 2.7256E+01 1.2741E+00
 Accumulated dose (rem) 1.2526E+00 8.7359E+01 3.9721E+00

CR Doses:

Time (h) = 96.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 1.5953E-02 1.9498E+00 7.5617E-02
 Accumulated dose (rem) 4.0833E-02 8.4629E+00 3.0381E-01

EAB Doses:

Time (h) = 720.0000 Whole Body Thyroid TEDE
 Delta dose (rem) 4.0186E-01 9.4608E+01 3.2830E+00

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Accumulated dose (rem) 2.4305E+00 1.8854E+02 8.1970E+00

CR Intake Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1988E-01	2.8223E+01	9.7935E-01
Accumulated dose (rem)	1.3725E+00	1.1558E+02	4.9514E+00

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0970E-03	1.3338E+00	4.3715E-02
Accumulated dose (rem)	4.3930E-02	9.7967E+00	3.4753E-01

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I-131 Summary

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	Pool	RB	Environment
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1457E+03	5.8560E-04	8.9550E-09
0.017	1.8472E+05	5.2887E-01	2.4314E-04
0.270	2.9827E+06	1.3713E+02	1.0213E+00
0.500	5.5172E+06	4.6681E+02	6.4503E+00
0.750	1.0104E+07	1.1203E+03	2.2180E+01
1.000	1.4679E+07	2.1485E+03	5.5284E+01
1.400	2.1975E+07	4.4825E+03	5.7049E+01
1.700	2.7428E+07	6.7901E+03	5.9334E+01
2.000	3.2865E+07	9.5518E+03	6.2654E+01
2.300	3.2796E+07	1.2469E+04	6.7152E+01
2.600	3.2727E+07	1.5259E+04	7.2815E+01
2.900	3.2658E+07	1.7927E+04	7.9592E+01
3.200	3.2589E+07	2.0480E+04	8.7435E+01
3.500	3.2520E+07	2.2920E+04	9.6296E+01
3.800	3.2452E+07	2.5254E+04	1.0613E+02
4.100	3.2384E+07	2.7484E+04	1.1690E+02
4.400	3.2315E+07	2.9617E+04	1.2855E+02
4.700	3.2247E+07	3.1655E+04	1.4106E+02
5.000	3.2180E+07	3.3602E+04	1.5438E+02
5.300	3.2112E+07	3.5463E+04	1.6848E+02
5.600	3.2044E+07	3.7241E+04	1.8332E+02
5.900	3.1977E+07	3.8939E+04	1.9887E+02
6.200	3.1910E+07	4.0560E+04	2.1510E+02
6.500	3.1842E+07	4.2108E+04	2.3197E+02
6.800	3.1775E+07	4.3586E+04	2.4947E+02
7.100	3.1708E+07	4.4997E+04	2.6755E+02
7.400	3.1642E+07	4.6342E+04	2.8619E+02
7.700	3.1575E+07	4.7626E+04	3.0537E+02
8.000	3.1509E+07	4.8851E+04	3.2506E+02
8.300	3.1442E+07	5.0018E+04	3.4524E+02
8.600	3.1376E+07	5.1131E+04	3.6589E+02
8.900	3.1310E+07	5.2192E+04	3.8697E+02
9.200	3.1244E+07	5.3202E+04	4.0849E+02
9.500	3.1179E+07	5.4165E+04	4.3040E+02
9.800	3.1113E+07	5.5081E+04	4.5270E+02
10.100	3.1047E+07	5.5953E+04	4.7536E+02
10.400	3.0982E+07	5.6783E+04	4.9837E+02
24.000	2.8160E+07	6.9329E+04	1.7173E+03
96.000	1.6984E+07	4.3920E+04	7.2736E+03
720.000	2.1230E+05	5.4899E+02	1.5663E+04

CR

Time (hr)	I-131 (Curies)
0.000	6.2125E-12
0.017	1.6857E-07
0.270	1.8235E-04
0.500	1.1278E-03
0.750	3.7980E-03
1.000	9.2852E-03
1.400	8.0539E-03
1.700	7.2494E-03
2.000	6.5372E-03
2.300	5.8904E-03
2.600	5.3161E-03
2.900	4.8066E-03
3.200	4.3549E-03

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3.500	3.9550E-03
3.800	3.6013E-03
4.100	3.2887E-03
4.400	3.0130E-03
4.700	2.7700E-03
5.000	2.5562E-03
5.300	2.3685E-03
5.600	2.2039E-03
5.900	2.0600E-03
6.200	1.9344E-03
6.500	1.8251E-03
6.800	1.7303E-03
7.100	1.6483E-03
7.400	1.5777E-03
7.700	1.5171E-03
8.000	1.4655E-03
8.300	1.3551E-03
8.600	1.2570E-03
8.900	1.1698E-03
9.200	1.0924E-03
9.500	1.0238E-03
9.800	9.6292E-04
10.100	9.0902E-04
10.400	8.6134E-04
24.000	5.4415E-04
96.000	2.5211E-04
720.000	2.3189E-06

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Cumulative Dose Summary

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Time (hr)	EAB		CR Intake		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.5457E-05	5.6519E-07	1.9094E-04	6.9817E-06	1.5102E-07	4.8260E-09
0.270	6.4760E-02	2.3476E-03	7.9998E-01	2.9000E-02	2.2085E-03	7.0487E-05
0.500	4.0806E-01	1.4684E-02	5.0408E+00	1.8139E-01	2.5300E-02	8.0647E-04
0.750	1.3997E+00	4.9986E-02	1.7290E+01	6.1748E-01	1.2593E-01	4.0088E-03
1.000	3.4801E+00	1.2342E-01	4.2990E+01	1.5246E+00	4.0165E-01	1.2770E-02
1.400	3.5076E+00	1.2487E-01	4.3064E+01	1.5285E+00	1.0097E+00	3.2058E-02
1.700	3.5431E+00	1.2678E-01	4.3160E+01	1.5337E+00	1.4107E+00	4.4754E-02
2.000	3.5944E+00	1.2957E-01	4.3300E+01	1.5413E+00	1.7707E+00	5.6138E-02
2.300	3.6637E+00	1.3335E-01	4.3405E+01	1.5470E+00	2.0940E+00	6.6357E-02
2.600	3.7507E+00	1.3814E-01	4.3536E+01	1.5543E+00	2.3845E+00	7.5534E-02
2.900	3.8544E+00	1.4389E-01	4.3693E+01	1.5629E+00	2.6461E+00	8.3795E-02
3.200	3.9740E+00	1.5055E-01	4.3874E+01	1.5730E+00	2.8820E+00	9.1251E-02
3.500	4.1088E+00	1.5811E-01	4.4078E+01	1.5845E+00	3.0953E+00	9.8000E-02
3.800	4.2578E+00	1.6654E-01	4.4304E+01	1.5972E+00	3.2887E+00	1.0413E-01
4.100	4.4204E+00	1.7584E-01	4.4550E+01	1.6113E+00	3.4644E+00	1.0971E-01
4.400	4.5960E+00	1.8598E-01	4.4816E+01	1.6267E+00	3.6247E+00	1.1482E-01
4.700	4.7838E+00	1.9695E-01	4.5100E+01	1.6433E+00	3.7713E+00	1.1951E-01
5.000	4.9832E+00	2.0874E-01	4.5402E+01	1.6611E+00	3.9060E+00	1.2385E-01
5.300	5.1936E+00	2.2133E-01	4.5720E+01	1.6802E+00	4.0301E+00	1.2787E-01
5.600	5.4144E+00	2.3470E-01	4.6054E+01	1.7004E+00	4.1450E+00	1.3163E-01
5.900	5.6451E+00	2.4884E-01	4.6404E+01	1.7218E+00	4.2519E+00	1.3515E-01
6.200	5.8852E+00	2.6371E-01	4.6767E+01	1.7443E+00	4.3518E+00	1.3847E-01
6.500	6.1342E+00	2.7931E-01	4.7144E+01	1.7679E+00	4.4455E+00	1.4163E-01
6.800	6.3916E+00	2.9561E-01	4.7533E+01	1.7926E+00	4.5339E+00	1.4465E-01
7.100	6.6570E+00	3.1259E-01	4.7935E+01	1.8183E+00	4.6176E+00	1.4754E-01
7.400	6.9298E+00	3.3022E-01	4.8348E+01	1.8450E+00	4.6974E+00	1.5034E-01
7.700	7.2098E+00	3.4848E-01	4.8772E+01	1.8726E+00	4.7738E+00	1.5306E-01
8.000	7.4966E+00	3.6734E-01	4.9206E+01	1.9012E+00	4.8472E+00	1.5571E-01
8.300	7.7897E+00	3.8679E-01	4.9372E+01	1.9122E+00	4.9164E+00	1.5824E-01
8.600	8.0888E+00	4.0680E-01	4.9542E+01	1.9235E+00	4.9803E+00	1.6059E-01
8.900	8.3935E+00	4.2734E-01	4.9715E+01	1.9352E+00	5.0396E+00	1.6278E-01
9.200	8.7037E+00	4.4839E-01	4.9891E+01	1.9471E+00	5.0947E+00	1.6484E-01
9.500	9.0188E+00	4.6992E-01	5.0070E+01	1.9594E+00	5.1461E+00	1.6678E-01
9.800	9.3388E+00	4.9192E-01	5.0251E+01	1.9719E+00	5.1943E+00	1.6861E-01
10.100	9.6631E+00	5.1436E-01	5.0435E+01	1.9846E+00	5.2395E+00	1.7035E-01
10.400	9.9917E+00	5.3721E-01	5.0622E+01	1.9976E+00	5.2823E+00	1.7201E-01
24.000	2.6697E+01	1.7712E+00	6.0103E+01	2.6980E+00	6.5131E+00	2.2819E-01
96.000	9.3928E+01	4.9140E+00	8.7359E+01	3.9721E+00	8.4629E+00	3.0381E-01
720.000	1.8854E+02	8.1970E+00	1.1558E+02	4.9514E+00	9.7967E+00	3.4753E-01

#####

Worst Two-Hour Doses

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#####

EAB

Time	Whole Body	Thyroid	TEDE
(hr)	(rem)	(rem)	(rem)
10.4	1.0561E-01	2.4566E+00	1.8147E-01

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Attachment 13.11 – RADTRAD Output File “NMP2MS22.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:21:17
#####

#####
File information
#####

Plant file           = C:\radtrad3.03\NMP2\Rev 4\NMP2MS22.psf
Inventory file       = c:\radtrad3.03\nmp2\nmp2.nif
Release file        = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
Combined Bypass Leakage Releases Withount Delay Times, CAVEX Core Inventory - External Cloud WB Dose
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
0
0
Compartment 5:
CR
1
3.8100E+05
```

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```

0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
0
Compartment 9:
Intact Interstitial Volume 4
3
4.8703E+02
0
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment
1
4
2
Pathway 6:
WW Bypass Pathway 6 to Environment
2
4
2
Pathway 7:
DW to MSIV Failed Inboard Volume 1
1
6
2

```

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Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6

7

2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Pathway 7)

7

4

2

Pathway 10:

DW to Intact Inboard Volume 3

1

8

2

Pathway 11:

Intact Inboard Volume 3 to Intact Outboard Volume 4

8

9

2

Pathway 12:

CR Filtered Intake (Pathway 9)

4

5

2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4

5

2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5

4

2

Pathway 15:

Intact Outboard Volume 4 to Environment (Pathway 8)

9

4

2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1

1 1.0000E+00

c:\radtrad3.03\nmp2\nmp2.inp

c:\radtrad3.03\nmp2\bwr_dba.rft

0.0000E+00

1

9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0

0.0000E+00

0

0

0

0

Compartments:

9

Compartment 1:

0

1

1

0.0000E+00

5

0.0000E+00 0.0000E+00

3.3330E-01 1.9800E+01

2.2500E+00 0.0000E+00

2.4000E+00 0.0000E+00

7.2000E+02 0.0000E+00

1

0.0000E+00

5

0.0000E+00 0.0000E+00

3.3330E-01 1.9800E+01

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2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00

1
0.0000E+00

0
0
0
0
0

Compartment 2:

0
1
0
0
0
0
0
0
0
0

Compartment 3:

0
1
0
0
0
0
0
0
0
0

Compartment 4:

0
1
0
0
0
0
0
0
0
0

Compartment 5:

0
1
0
0
0
0
1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0
0

Compartment 6:

0
1
0
0
0
0
0
0
0
0

Compartment 7:

0
1
0
0
0
0
0
0
0
0

Compartment 8:

0
1

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0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

0

0

0

0

Pathway 4:

0
0
0
0
0
1

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```

4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
2.4000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
9.6000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 7:
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 8:
0
0
0
0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
9.6000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00

```

7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 9:				
0				
0				
0				
0				
1				
5				
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
Pathway 10:				
0				
0				
0				
0				
1				
3				
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
Pathway 11:				
0				
0				
0				
0				
1				
5				
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
Pathway 12:				
0				
0				
0				
0				
1				
3				
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				

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```

0
Pathway 13:
0
0
0
0
0
0
1
2
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 15:
0
0
0
0
0
0
1
5
0.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.6670E+00  9.9600E+01  5.0000E+01  0.0000E+00
2.4000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
9.6000E+01  8.3300E-01  9.9600E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
CR Air Intake
4
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00

```

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```

1
4
0.0000E+00    3.5000E-04
8.0000E+00    1.8000E-04
2.4000E+01    2.3000E-04
7.2000E+02    0.0000E+00
0
Location 3:
CR
5
0
1
2
0.0000E+00    3.5000E-04
7.2000E+02    0.0000E+00
1
4
0.0000E+00    1.0000E+00
2.4000E+01    6.0000E-01
9.6000E+01    4.0000E-01
7.2000E+02    0.0000E+00
Effective Volume Location:
1
6
0.0000E+00    1.4700E-03
2.0000E+00    9.7400E-04
8.0000E+00    3.6300E-04
2.4000E+01    2.4500E-04
9.6000E+01    1.9000E-04
7.2000E+02    0.0000E+00
Simulation Parameters:
7
0.0000E+00    1.0000E-02
1.0000E+00    1.0000E-01
2.0000E+00    5.0000E-01
8.0000E+00    1.0000E+00
2.4000E+01    2.0000E+00
9.6000E+01    5.0000E+00
7.2000E+02    0.0000E+00
Output Filename:
C:\radtrad3.o641
1
1
1
0
0
End of Scenario File

```

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:21:17
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment
 Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment
 Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Pat
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

Name: MSIV Failed Inboard Volume 1

Compartment volume = 3.9068E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 6

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--------------------------	------------	--------------

Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Pat

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 10: DW to Intact Inboard Volume 3
Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Interstitial Volume 4
Compartment volume = 4.8703E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 9
Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:21:17
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10

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La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Interstitial Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00

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9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Pat

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9670E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00

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1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.9600E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.9600E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location CR Air Intake is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

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Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:21:17
#####
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#####
# # # # # # # #
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# # # # # # # #
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#####
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```
#####
Dose Output
#####
```

EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5544E-05	1.3625E-03	7.2579E-05	
Accumulated dose (rem)	1.5544E-05	1.3625E-03	7.2579E-05	

CR Air Intake Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9201E-04	1.6831E-02	8.9656E-04	
Accumulated dose (rem)	1.9201E-04	1.6831E-02	8.9656E-04	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2220E-08	1.6332E-05	6.9592E-07	
Accumulated dose (rem)	1.2220E-08	1.6332E-05	6.9592E-07	

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5620E-04	3.2497E-02	1.7165E-03	
Accumulated dose (rem)	3.7174E-04	3.3859E-02	1.7891E-03	

CR Air Intake Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4001E-03	4.0143E-01	2.1204E-02	
Accumulated dose (rem)	4.5921E-03	4.1826E-01	2.2101E-02	

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2602E-06	6.0530E-04	2.6618E-05	
Accumulated dose (rem)	1.2725E-06	6.2163E-04	2.7314E-05	

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8787E-03	5.0686E-01	2.6095E-02	
Accumulated dose (rem)	5.2505E-03	5.4072E-01	2.7884E-02	

CR Air Intake Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.0267E-02	6.2612E+00	3.2235E-01	
Accumulated dose (rem)	6.4859E-02	6.6795E+00	3.4445E-01	

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5144E-05	2.9865E-02	1.3201E-03	
Accumulated dose (rem)	6.6417E-05	3.0486E-02	1.3474E-03	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	3.6976E-03	2.1796E-01	1.2796E-02
Accumulated dose (rem)	8.9481E-03	7.5868E-01	4.0680E-02

CR Air Intake Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5676E-02	2.6925E+00	1.5807E-01	
Accumulated dose (rem)	1.1054E-01	9.3719E+00	5.0252E-01	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3122E-04	5.4947E-02	2.4479E-03	
Accumulated dose (rem)	1.9764E-04	8.5434E-02	3.7953E-03	

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9998E-01	1.3978E+00	2.6681E-01	
Accumulated dose (rem)	2.0893E-01	2.1565E+00	3.0749E-01	

CR Air Intake Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4703E+00	1.7267E+01	3.2959E+00	
Accumulated dose (rem)	2.5808E+00	2.6639E+01	3.7984E+00	

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0962E-02	8.4927E-01	6.7251E-02	
Accumulated dose (rem)	2.1160E-02	9.3471E-01	7.1047E-02	

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5902E-02	7.4149E-02	3.9069E-02	
Accumulated dose (rem)	2.4483E-01	2.2306E+00	3.4656E-01	

CR Air Intake Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9386E-01	6.0690E-01	3.1977E-01	
Accumulated dose (rem)	2.8747E+00	2.7246E+01	4.1182E+00	

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8293E-03	1.8512E-01	2.1932E-02	
Accumulated dose (rem)	2.9989E-02	1.1198E+00	9.2979E-02	

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0647E-02	2.4859E-02	2.1601E-02	
Accumulated dose (rem)	2.6547E-01	2.2555E+00	3.6816E-01	

CR Air Intake Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6899E-01	2.0347E-01	1.7680E-01	
Accumulated dose (rem)	3.0437E+00	2.7449E+01	4.2950E+00	

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4812E-03	1.0516E-01	1.3412E-02	
Accumulated dose (rem)	3.5470E-02	1.2250E+00	1.0639E-01	

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6526E-01	1.3754E+00	7.1758E-01	
Accumulated dose (rem)	9.3073E-01	3.6309E+00	1.0857E+00	

CR Air Intake Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	5.4450E+00	1.1257E+01	5.8733E+00
Accumulated dose (rem)	8.4887E+00	3.8707E+01	1.0168E+01

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2394E-01	2.3011E+00	4.5829E-01	
Accumulated dose (rem)	2.5941E-01	3.5260E+00	5.6468E-01	

EAB Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0714E+00	6.5308E+00	1.2864E+00	
Accumulated dose (rem)	2.0021E+00	1.0162E+01	2.3721E+00	

CR Air Intake Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2682E+00	1.0245E+01	3.6054E+00	
Accumulated dose (rem)	1.1757E+01	4.8952E+01	1.3774E+01	

CR Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4710E-01	2.6642E+00	4.4945E-01	
Accumulated dose (rem)	5.0652E-01	6.1903E+00	1.0141E+00	

EAB Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1641E-01	1.3745E+01	1.3573E+00	
Accumulated dose (rem)	2.9185E+00	2.3907E+01	3.7293E+00	

CR Air Intake Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8867E+00	1.8596E+01	2.4832E+00	
Accumulated dose (rem)	1.3644E+01	6.7548E+01	1.6257E+01	

CR Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.4782E-02	2.1317E+00	1.5557E-01	
Accumulated dose (rem)	5.9130E-01	8.3220E+00	1.1697E+00	

EAB Doses:

Time (h) =	720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5176E+00	3.6630E+01	2.7775E+00	
Accumulated dose (rem)	4.4361E+00	6.0537E+01	6.5069E+00	

CR Air Intake Doses:

Time (h) =	720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4230E+00	3.8433E+01	3.7450E+00	
Accumulated dose (rem)	1.6067E+01	1.0598E+02	2.0002E+01	

CR Doses:

Time (h) =	720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3729E-02	2.7296E+00	1.5759E-01	
Accumulated dose (rem)	6.5503E-01	1.1052E+01	1.3273E+00	

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I-131 Summary

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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4388E-02
0.017	1.8470E+05	0.0000E+00	3.1068E+01
0.083	9.2044E+05	0.0000E+00	7.7245E+02
0.333	3.6817E+06	0.0000E+00	1.0817E+03
0.500	6.8012E+05	0.0000E+00	1.2134E+03
0.750	9.4093E+05	0.0000E+00	1.3319E+03
1.000	9.4889E+05	0.0000E+00	1.4580E+03

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1.400	9.5870E+05	0.0000E+00	1.6614E+03
1.700	9.6603E+05	0.0000E+00	1.8151E+03
2.000	9.7334E+05	0.0000E+00	1.9699E+03
2.250	5.9162E+04	4.0983E+04	2.0106E+03
2.400	6.0403E+04	3.7668E+04	2.0170E+03
2.700	6.0349E+04	3.7597E+04	2.0298E+03
3.000	6.0272E+04	3.7549E+04	2.0426E+03
3.300	6.0196E+04	3.7501E+04	2.0553E+03
3.600	6.0119E+04	3.7454E+04	2.0680E+03
3.900	6.0043E+04	3.7406E+04	2.0806E+03
4.200	5.9966E+04	3.7358E+04	2.0932E+03
4.500	5.9890E+04	3.7311E+04	2.1058E+03
4.800	5.9814E+04	3.7263E+04	2.1184E+03
5.100	5.9738E+04	3.7216E+04	2.1309E+03
5.400	5.9662E+04	3.7169E+04	2.1434E+03
5.700	5.9586E+04	3.7121E+04	2.1559E+03
6.000	5.9510E+04	3.7074E+04	2.1683E+03
6.300	5.9434E+04	3.7027E+04	2.1807E+03
6.600	5.9359E+04	3.6980E+04	2.1931E+03
6.900	5.9283E+04	3.6933E+04	2.2054E+03
7.200	5.9208E+04	3.6886E+04	2.2177E+03
7.500	5.9132E+04	3.6839E+04	2.2300E+03
7.800	5.9057E+04	3.6792E+04	2.2422E+03
8.000	5.9007E+04	3.6761E+04	2.2504E+03
8.300	5.8932E+04	3.6714E+04	2.2626E+03
8.600	5.8857E+04	3.6667E+04	2.2747E+03
8.900	5.8782E+04	3.6621E+04	2.2868E+03
9.200	5.8707E+04	3.6574E+04	2.2989E+03
9.500	5.8632E+04	3.6527E+04	2.3110E+03
9.800	5.8558E+04	3.6481E+04	2.3230E+03
10.100	5.8483E+04	3.6434E+04	2.3350E+03
10.400	5.8409E+04	3.6388E+04	2.3470E+03
24.000	5.5126E+04	3.4343E+04	2.8574E+03
96.000	4.1555E+04	2.5888E+04	3.4615E+03
720.000	3.5475E+03	2.2101E+03	1.3916E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSIV Failed Inboard V I-131 (Curies)
0.000	2.3498E-05	1.6302E-08	2.2613E-04
0.017	2.1230E-02	1.4715E-05	2.0418E-01
0.083	5.2789E-01	1.0613E-04	5.0649E+00
0.333	8.4487E+00	1.4941E-03	8.0334E+01
0.500	1.1862E+01	2.0073E-03	1.1108E+02
0.750	1.5024E+01	2.3879E-03	1.3718E+02
1.000	1.8456E+01	2.7819E-03	1.6444E+02
1.400	2.4150E+01	3.3781E-03	2.0699E+02
1.700	2.8593E+01	3.8018E-03	2.3807E+02
2.000	3.3190E+01	4.2088E-03	2.6844E+02
2.250	3.4352E+01	3.9789E-03	2.6808E+02
2.400	3.4749E+01	3.8162E-03	2.6499E+02
2.700	3.5578E+01	3.5199E-03	2.5896E+02
3.000	3.6453E+01	3.2594E-03	2.5311E+02
3.300	3.7375E+01	3.0310E-03	2.4744E+02
3.600	3.8343E+01	2.8314E-03	2.4195E+02
3.900	3.9358E+01	2.6575E-03	2.3663E+02
4.200	4.0419E+01	2.5067E-03	2.3148E+02
4.500	4.1524E+01	2.3766E-03	2.2649E+02
4.800	4.2675E+01	2.2650E-03	2.2165E+02
5.100	4.3870E+01	2.1699E-03	2.1696E+02
5.400	4.5108E+01	2.0896E-03	2.1242E+02
5.700	4.6390E+01	2.0224E-03	2.0802E+02
6.000	4.7713E+01	1.9670E-03	2.0376E+02
6.300	4.9079E+01	1.9220E-03	1.9963E+02
6.600	5.0484E+01	1.8863E-03	1.9562E+02
6.900	5.1930E+01	1.8588E-03	1.9174E+02
7.200	5.3415E+01	1.8387E-03	1.8798E+02
7.500	5.4937E+01	1.8250E-03	1.8434E+02
7.800	5.6498E+01	1.8169E-03	1.8081E+02
8.000	5.7558E+01	1.8144E-03	1.7851E+02
8.300	5.9179E+01	1.6977E-03	1.7516E+02
8.600	6.0834E+01	1.5944E-03	1.7191E+02
8.900	6.2524E+01	1.5031E-03	1.6877E+02
9.200	6.4248E+01	1.4227E-03	1.6571E+02
9.500	6.6003E+01	1.3519E-03	1.6276E+02
9.800	6.7791E+01	1.2897E-03	1.5989E+02
10.100	6.9609E+01	1.2352E-03	1.5711E+02
10.400	7.1457E+01	1.1876E-03	1.5442E+02
24.000	1.7495E+02	1.0268E-03	8.9249E+01

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96.000	4.5747E+02	2.9689E-04	5.3722E+01
720.000	1.2643E+03	1.9697E-05	4.5572E+00
MSIV Failed Outboard Intact Inboard Volume Intact Interstitial V			
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	4.3473E-09	2.2612E-04	5.1186E-09
0.017	1.1791E-04	2.0416E-01	1.3883E-04
0.083	1.4542E-02	5.0623E+00	1.7126E-02
0.333	9.1136E-01	8.0171E+01	1.0739E+00
0.500	2.5825E+00	1.1062E+02	3.0447E+00
0.750	5.5533E+00	1.3616E+02	6.5531E+00
1.000	9.0386E+00	1.6277E+02	1.0675E+01
1.400	1.5597E+01	2.0407E+02	1.8443E+01
1.700	2.1223E+01	2.3405E+02	2.5117E+01
2.000	2.7388E+01	2.6320E+02	3.2436E+01
2.250	3.2607E+01	2.6177E+02	3.8642E+01
2.400	3.5545E+01	2.5808E+02	4.2141E+01
2.700	4.0980E+01	2.5088E+02	4.8625E+01
3.000	4.5864E+01	2.4394E+02	5.4463E+01
3.300	5.0239E+01	2.3726E+02	5.9705E+01
3.600	5.4146E+01	2.3082E+02	6.4395E+01
3.900	5.7623E+01	2.2461E+02	6.8576E+01
4.200	6.0703E+01	2.1864E+02	7.2286E+01
4.500	6.3420E+01	2.1288E+02	7.5563E+01
4.800	6.5803E+01	2.0733E+02	7.8439E+01
5.100	6.7879E+01	2.0198E+02	8.0947E+01
5.400	6.9673E+01	1.9683E+02	8.3117E+01
5.700	7.1211E+01	1.9187E+02	8.4975E+01
6.000	7.2512E+01	1.8709E+02	8.6546E+01
6.300	7.3598E+01	1.8248E+02	8.7856E+01
6.600	7.4487E+01	1.7804E+02	8.8925E+01
6.900	7.5197E+01	1.7376E+02	8.9774E+01
7.200	7.5743E+01	1.6964E+02	9.0423E+01
7.500	7.6141E+01	1.6566E+02	9.0888E+01
7.800	7.6403E+01	1.6183E+02	9.1186E+01
8.000	7.6509E+01	1.5936E+02	9.1300E+01
8.300	7.6574E+01	1.5576E+02	9.1353E+01
8.600	7.6535E+01	1.5228E+02	9.1277E+01
8.900	7.6402E+01	1.4894E+02	9.1085E+01
9.200	7.6186E+01	1.4572E+02	9.0788E+01
9.500	7.5894E+01	1.4261E+02	9.0396E+01
9.800	7.5534E+01	1.3961E+02	8.9920E+01
10.100	7.5115E+01	1.3672E+02	8.9368E+01
10.400	7.4642E+01	1.3394E+02	8.8749E+01
24.000	4.5455E+01	7.2786E+01	5.1495E+01
96.000	2.4096E+01	4.5412E+01	2.7244E+01
720.000	2.0339E+00	3.8665E+00	2.3107E+00

Cumulative Dose Summary
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Time (hr)	EAB		CR Air Intake		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.3625E-03	7.2579E-05	1.6831E-02	8.9656E-04	1.6332E-05	6.9592E-07
0.083	3.3859E-02	1.7891E-03	4.1826E-01	2.2101E-02	6.2163E-04	2.7314E-05
0.333	5.4072E-01	2.7884E-02	6.6795E+00	3.4445E-01	3.0486E-02	1.3474E-03
0.500	7.5868E-01	4.0680E-02	9.3719E+00	5.0252E-01	8.5434E-02	3.7953E-03
0.750	9.6693E-01	6.2183E-02	1.1944E+01	7.6814E-01	1.8349E-01	8.4991E-03
1.000	1.1933E+00	9.5069E-02	1.4741E+01	1.1744E+00	2.9989E-01	1.5063E-02
1.400	1.5674E+00	1.6628E-01	1.9362E+01	2.0540E+00	5.2272E-01	3.0901E-02
1.700	1.8576E+00	2.3214E-01	2.2947E+01	2.8676E+00	7.1753E-01	4.8282E-02
2.000	2.1565E+00	3.0749E-01	2.6639E+01	3.7984E+00	9.3471E-01	7.1047E-02
2.250	2.2306E+00	3.4656E-01	2.7246E+01	4.1182E+00	1.1198E+00	9.2979E-02
2.400	2.2555E+00	3.6816E-01	2.7449E+01	4.2950E+00	1.2250E+00	1.0639E-01
2.700	2.3071E+00	4.1133E-01	2.7872E+01	4.6483E+00	1.4223E+00	1.3336E-01
3.000	2.3615E+00	4.5410E-01	2.8317E+01	4.9984E+00	1.6039E+00	1.6039E-01
3.300	2.4185E+00	4.9632E-01	2.8783E+01	5.3440E+00	1.7719E+00	1.8725E-01
3.600	2.4782E+00	5.3793E-01	2.9272E+01	5.6845E+00	1.9278E+00	2.1383E-01
3.900	2.5405E+00	5.7894E-01	2.9782E+01	6.0202E+00	2.0732E+00	2.4009E-01
4.200	2.6054E+00	6.1938E-01	3.0313E+01	6.3512E+00	2.2095E+00	2.6600E-01
4.500	2.6728E+00	6.5925E-01	3.0865E+01	6.6775E+00	2.3378E+00	2.9155E-01
4.800	2.7428E+00	6.9858E-01	3.1438E+01	6.9994E+00	2.4594E+00	3.1675E-01
5.100	2.8152E+00	7.3738E-01	3.2030E+01	7.3170E+00	2.5750E+00	3.4161E-01
5.400	2.8900E+00	7.7566E-01	3.2643E+01	7.6304E+00	2.6856E+00	3.6611E-01
5.700	2.9672E+00	8.1343E-01	3.3274E+01	7.9395E+00	2.7920E+00	3.9028E-01

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6.000 3.0466E+00 8.5068E-01 3.3924E+01 8.2443E+00 2.8948E+00 4.1412E-01
6.300 3.1283E+00 8.8741E-01 3.4593E+01 8.5450E+00 2.9946E+00 4.3762E-01
6.600 3.2122E+00 9.2363E-01 3.5280E+01 8.8414E+00 3.0919E+00 4.6080E-01
6.900 3.2982E+00 9.5932E-01 3.5984E+01 9.1336E+00 3.1873E+00 4.8365E-01
7.200 3.3863E+00 9.9449E-01 3.6705E+01 9.4215E+00 3.2810E+00 5.0618E-01
7.500 3.4764E+00 1.0291E+00 3.7442E+01 9.7051E+00 3.3736E+00 5.2838E-01
7.800 3.5684E+00 1.0633E+00 3.8196E+01 9.9844E+00 3.4653E+00 5.5027E-01
8.000 3.6309E+00 1.0857E+00 3.8707E+01 1.0168E+01 3.5260E+00 5.6468E-01
8.300 3.7261E+00 1.1190E+00 3.8856E+01 1.0265E+01 3.6139E+00 5.8550E-01
8.600 3.8231E+00 1.1517E+00 3.9008E+01 1.0360E+01 3.6960E+00 6.0489E-01
8.900 3.9218E+00 1.1840E+00 3.9163E+01 1.0453E+01 3.7731E+00 6.2284E-01
9.200 4.0223E+00 1.2157E+00 3.9321E+01 1.0545E+01 3.8457E+00 6.3947E-01
9.500 4.1244E+00 1.2469E+00 3.9481E+01 1.0635E+01 3.9143E+00 6.5490E-01
9.800 4.2280E+00 1.2776E+00 3.9643E+01 1.0723E+01 3.9794E+00 6.6925E-01
10.100 4.3332E+00 1.3079E+00 3.9808E+01 1.0810E+01 4.0415E+00 6.8264E-01
10.400 4.4399E+00 1.3376E+00 3.9976E+01 1.0896E+01 4.1009E+00 6.9517E-01
24.000 1.0162E+01 2.3721E+00 4.8952E+01 1.3774E+01 6.1903E+00 1.0141E+00
96.000 2.3907E+01 3.7293E+00 6.7548E+01 1.6257E+01 8.3220E+00 1.1697E+00
720.000 6.0537E+01 6.5069E+00 1.0598E+02 2.0002E+01 1.1052E+01 1.3273E+00

```

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
1.0	3.0461E-01	1.1681E+00	3.5903E-01

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Attachment 13.12 – RADTRAD Output File “NMP2CL00.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 8:51:28
#####
```

```
#####
File information
#####
```

```
Plant file           = C:\radtrad3.03\NMP2\Rev 4\NMP2CL00.psf
Inventory file       = c:\radtrad3.03\nmp2\nmp2.nif
Release file        = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      #      #      # ##      # #      # #      #
# #      #      #      # #      # #      # #      #
#####      #####      #####      # #      # #####      # #      #
#          #      #      # #      # #      # #      #
#          #      #      # #      ##      #      # #      #
#          #####      #      #      #      #####      #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Containment Leakage from Drywell & Wetwell (DW+WW) Using CAVEX Core Inventory -
Containment Shine Dose
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
6
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
Compartment 4:
RB
3
1.9400E+06
```

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```

0
0
0
0
0
Compartment 5:
Environment
2
0.0000E+00
0
0
0
0
0
0
Compartment 6:
CR
1
3.8100E+05
0
0
1
0
0
Pathways:
13
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW to RB
1
4
2
Pathway 4:
WW to RB
2
4
2
Pathway 5:
CR Filtered Intake
5
6
2
Pathway 6:
CR Unfiltered Inleakage
5
6
2
Pathway 7:
CR Exhaust to Environment
6
5
2
Pathway 8:
Drawdown Release from RB to Environment
4
5
2
Pathway 9:
RB Exhaust to Environment
4
5

```

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```

2
Pathway 10:
DW to Dummy (Bypass Pathway 5)
1
3
2
Pathway 11:
WW to Dummy (Bypass Pathway 6)
2
3
2
Pathway 12:
DW to Dummy (MSIV Failed Pathway 7)
1
3
2
Pathway 13:
DW to Dummy (Intact MSIV Pathway 8)
1
3
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
6
Compartment 1:
0
1
1
0.0000E+00
6
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
6.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
6
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00
6.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
0
0
0

```

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0
0

Compartment 2:

0
1
0
0
0
0
0
0
0
0

Compartment 3:

0
1
0
0
0
0
0
0
0
0

Compartment 4:

1
1
0
0
0
0
0
0
0
0

Compartment 5:

0
1
0
0
0
0
0
0
0
0

Compartment 6:

0
1
0
0
0
1
6.7500E+02
3

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00

0
0

Pathways:

13

Pathway 1:

0
0
0
0
0
0
0
0
0

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0
1
3
0.0000E+00 0.0000E+00
2.0000E+00 8.9710E+04
7.2000E+02 0.0000E+00

0
Pathway 2:

0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00 0.0000E+00
2.0000E+00 1.4400E+05
7.2000E+02 0.0000E+00

0
Pathway 3:

0
0
0
0
0
1
4
0.0000E+00 1.0280E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 2.7500E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.3800E+00 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Pathway 4:

0
0
0
0
0
1
4
0.0000E+00 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 7.3000E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
3
0.0000E+00 7.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 6:				
0				
0				
0				
0				
0				
1				
6				
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 7:				
0				
0				
0				
0				
0				
1				
3				
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 8:				
0				
0				
0				
0				
0				
1				
2				
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 9:				
0				
0				
0				
0				
0				
1				
3				

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0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	3.6000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

0

0

0

0

0

Pathway 10:

0

0

0

0

0

1

3

0.0000E+00	2.4930E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.2470E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

0

0

0

0

0

Pathway 11:

0

0

0

0

0

1

3

0.0000E+00	1.1200E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.6000E-03	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

0

0

0

0

0

Pathway 12:

0

0

0

0

0

1

3

0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0

0

0

0

0

0

Pathway 13:

0

0

0

0

0

1

3

0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
------------	------------	------------	------------	------------

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2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
0					
0					
0					
0					
0					
0					
Dose Locations:					
3					
Location 1:					
EAB					
5					
1					
3					
0.0000E+00	1.1900E-04				
1.0000E+00	2.9600E-05				
7.2000E+02	0.0000E+00				
1					
2					
0.0000E+00	3.5000E-04				
7.2000E+02	3.5000E-04				
0					
Location 2:					
LPZ					
5					
1					
6					
0.0000E+00	1.6200E-05				
1.0000E+00	1.4200E-05				
8.0000E+00	5.4100E-07				
2.4000E+01	2.3100E-07				
9.6000E+01	7.6500E-08				
7.2000E+02	0.0000E+00				
1					
4					
0.0000E+00	3.5000E-04				
8.0000E+00	1.8000E-04				
2.4000E+01	2.3000E-04				
7.2000E+02	2.3000E-04				
0					
Location 3:					
CR					
6					
0					
1					
2					
0.0000E+00	3.5000E-04				
7.2000E+02	3.5000E-04				
1					
4					
0.0000E+00	1.0000E+00				
2.4000E+01	6.0000E-01				
9.6000E+01	4.0000E-01				
7.2000E+02	0.0000E+00				
Effective Volume Location:					
1					
7					
0.0000E+00	1.4700E-03				
1.0000E+00	8.0300E-05				
2.0000E+00	4.4800E-05				
8.0000E+00	1.6800E-05				
2.4000E+01	1.2000E-05				
9.6000E+01	8.8300E-06				
7.2000E+02	0.0000E+00				
Simulation Parameters:					
7					
0.0000E+00	1.0000E-02				
1.0000E+00	1.0000E-01				

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2.0000E+00 5.0000E-01
 8.0000E+00 1.0000E+00
 2.4000E+01 2.0000E+00
 9.6000E+01 5.0000E+00
 7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o669

0

1

1

0

0

End of Scenario File

 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 8:51:28
 #####

 Scenario Description
 #####

Radioactive Decay is enabled

Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09

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Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09
Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00

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La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol = 9.5000E-01
 Elemental = 4.8500E-02
 Organic = 1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: RB

Compartment number 5: Environment

Compartment number 6: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

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Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW to RB

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: CR Unfiltered Inleakage

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: Drawdown Release from RB to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00

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1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

Pathway number 9: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	3.6000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Dummy (Bypass Pathway 5)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.2470E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: WW to Dummy (Bypass Pathway 6)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.6000E-03	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: DW to Dummy (MSIV Failed Pathway 7)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: DW to Dummy (Intact MSIV Pathway 8)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location LPZ is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
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0.0000E+00	1.6200E-05
1.0000E+00	1.4200E-05
8.0000E+00	5.4100E-07
2.4000E+01	2.3100E-07
9.6000E+01	7.6500E-08
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	2.3000E-04

Location CR is in compartment 6

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 8:51:28
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#####
#   #   #   #   #   #   #   #   #   #
#   #   #   #   #   #   #   #   #
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#   #   #   #   #   #   #   #   #
#   #   #   #   #   #   #   #   #
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

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Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	
Accumulated dose (rem)	6.4339E-06	9.1664E-04	4.5228E-05	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.7588E-07	1.2479E-04	6.1570E-06	
Accumulated dose (rem)	8.7588E-07	1.2479E-04	6.1570E-06	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	
Accumulated dose (rem)	4.1243E-09	8.9558E-06	3.8315E-07	

RB Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-83m		4.5954E+00	2.2638E-10	1.6425E+15	6.0676E+12
Kr-85m		1.0386E+01	1.2620E-09	8.9412E+15	1.3696E+13
Kr-85		5.2634E-01	1.3428E-06	9.5137E+18	6.9345E+11
Kr-87		2.0818E+01	7.3494E-10	5.0873E+15	2.7515E+13
Kr-88		2.8427E+01	2.2671E-09	1.5514E+16	3.7506E+13
Rb-86		7.1471E-02	8.7837E-10	6.1508E+15	9.4163E+10
Rb-88		2.8770E+01	2.3833E-10	1.6310E+15	3.7579E+13
I-131		3.1054E+01	2.5048E-07	1.1515E+18	4.0913E+13
I-132		4.5018E+01	4.3613E-09	1.9897E+16	5.9407E+13
I-133		6.4358E+01	5.6813E-08	2.5724E+17	8.4808E+13
I-134		7.2902E+01	2.7328E-09	1.2281E+16	9.6494E+13
I-135		6.0748E+01	1.7298E-08	7.7164E+16	8.0084E+13
Xe-133		6.4394E+01	3.4402E-07	1.5577E+18	8.4837E+13
Xe-133m		1.9752E+00	4.4865E-09	2.0314E+16	2.6022E+12
Xe-135		2.7107E+01	1.0615E-08	4.7351E+16	3.5667E+13
Xe-135m		1.3174E+01	1.4472E-10	6.4558E+14	1.7320E+13
Xe-138		5.5014E+01	5.7335E-10	2.5020E+15	7.3742E+13
Cs-134		7.1473E+00	5.5241E-06	2.4826E+19	9.4165E+12
Cs-136		2.1806E+00	2.9753E-08	1.3175E+17	2.8730E+12
Cs-137		5.5489E+00	6.3793E-05	2.8042E+20	7.3105E+12

RB Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		1.1173E+19	0.0000E+00
Elemental I (atoms)		7.3626E+16	0.0000E+00
Organic I (atoms)		2.2771E+15	0.0000E+00
Aerosols (kg)		6.9663E-05	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		7.9850E-10
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0226E-09
Total I (Ci)			2.7408E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 1.1179E+19
Elemental I (atoms)		0.0000E+00 7.3678E+16
Organic I (atoms)		0.0000E+00 2.2787E+15
Aerosols (kg)		0.0000E+00 6.9695E-05

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 0.0000E+00
Elemental I (atoms)		0.0000E+00 0.0000E+00
Organic I (atoms)		0.0000E+00 0.0000E+00
Aerosols (kg)		0.0000E+00 0.0000E+00

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Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1369E+15
Elemental I (atoms)	0.0000E+00	3.3856E+13
Organic I (atoms)	0.0000E+00	1.0471E+12
Aerosols (kg)	0.0000E+00	3.2027E-08

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6682E-04	1.1255E-01	5.5301E-03
Accumulated dose (rem)		7.7325E-04	1.1347E-01	5.5753E-03

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0439E-04	1.5322E-02	7.5284E-04
Accumulated dose (rem)		1.0527E-04	1.5447E-02	7.5900E-04

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2185E-06	1.3040E-03	5.6416E-05
Accumulated dose (rem)		1.2226E-06	1.3129E-03	5.6799E-05

RB Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-83m		1.1128E+02	5.4818E-09	3.9774E+16	4.8703E+14
Kr-85m		2.5517E+02	3.1007E-08	2.1968E+17	1.1114E+15
Kr-85		1.3066E+01	3.3334E-05	2.3616E+20	5.6712E+13
Kr-87		4.9835E+02	1.7593E-08	1.2178E+17	2.1896E+15
Kr-88		6.9429E+02	5.5370E-08	3.7891E+17	3.0300E+15
Rb-86		1.7740E+00	2.1802E-08	1.5267E+17	7.7003E+12
Rb-88		7.1322E+02	5.9082E-09	4.0432E+16	3.0647E+15
I-131		7.7068E+02	6.2165E-06	2.8577E+19	3.3454E+15
I-132		1.1022E+03	1.0678E-07	4.8714E+17	4.8082E+15
I-133		1.5941E+03	1.4072E-06	6.3716E+18	6.9242E+15
I-134		1.7168E+03	6.4358E-08	2.8923E+17	7.5849E+15
I-135		1.4975E+03	4.2641E-07	1.9022E+18	6.5151E+15
Xe-133		1.5985E+03	8.5398E-06	3.8667E+19	6.9381E+15
Xe-133m		4.9029E+01	1.1136E-07	5.0425E+17	2.1280E+14
Xe-135		6.7755E+02	2.6532E-07	1.1835E+18	2.9318E+15
Xe-135m		3.1068E+02	3.4128E-09	1.5224E+16	1.3590E+15
Xe-138		1.1236E+03	1.1710E-08	5.1103E+16	5.2120E+15
Cs-134		1.7742E+02	1.3713E-04	6.1627E+20	7.7010E+14
Cs-136		5.4123E+01	7.3847E-07	3.2700E+18	2.3493E+14
Cs-137		1.3774E+02	1.5836E-03	6.9610E+21	5.9787E+14

RB Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump	
Noble gases (atoms)		2.7735E+20	0.0000E+00	
Elemental I (atoms)		1.8249E+18	0.0000E+00	
Organic I (atoms)		5.6441E+16	0.0000E+00	
Aerosols (kg)		1.7293E-03	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)			1.9799E-08
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)			2.5310E-08
Total I (Ci)				6.6813E+03

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DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7799E+20
Elemental I (atoms)	0.0000E+00	1.8305E+18
Organic I (atoms)	0.0000E+00	5.6615E+16
Aerosols (kg)	0.0000E+00	1.7333E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3639E+17
Elemental I (atoms)	0.0000E+00	4.1898E+15
Organic I (atoms)	0.0000E+00	1.2958E+14
Aerosols (kg)	0.0000E+00	3.9679E-06

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.3333			
Delta dose (rem)	7.3503E-03	1.1707E+00	5.6894E-02
Accumulated dose (rem)	8.1235E-03	1.2841E+00	6.2469E-02

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.3333			
Delta dose (rem)	1.0006E-03	1.5937E-01	7.7452E-03
Accumulated dose (rem)	1.1059E-03	1.7482E-01	8.5042E-03

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.3333			
Delta dose (rem)	7.0934E-05	8.2917E-02	3.5837E-03
Accumulated dose (rem)	7.2157E-05	8.4230E-02	3.6405E-03

RB Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
Kr-83m		1.3978E+02	6.8858E-09	4.9960E+16	4.5710E+15
Kr-85m		3.3847E+02	4.1129E-08	2.9139E+17	1.0747E+16
Kr-85		1.8015E+01	4.5959E-05	3.2562E+20	5.6023E+14
Kr-87		5.9957E+02	2.1167E-08	1.4652E+17	2.0075E+16
Kr-88		9.0060E+02	7.1823E-08	4.9151E+17	2.8942E+16
Rb-86		2.4450E+00	3.0048E-08	2.1041E+17	7.6050E+13
Rb-88		9.6260E+02	7.9740E-09	5.4569E+16	2.9993E+16
I-131		1.0617E+03	8.5634E-06	3.9367E+19	3.3031E+16
I-132		1.4202E+03	1.3759E-07	6.2771E+17	4.5752E+16
I-133		2.1796E+03	1.9241E-06	8.7120E+18	6.8085E+16
I-134		1.9426E+03	7.2819E-08	3.2726E+17	6.7289E+16

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I-135	2.0113E+03	5.7271E-07	2.5548E+18	6.3433E+16
Xe-133	2.2039E+03	1.1774E-05	5.3313E+19	6.8537E+16
Xe-133m	6.7586E+01	1.5352E-07	6.9511E+17	2.1019E+15
Xe-135	9.5663E+02	3.7460E-07	1.6710E+18	2.9357E+16
Xe-135m	3.6965E+02	4.0606E-09	1.8114E+16	1.2273E+16
Xe-138	7.4495E+02	7.7638E-09	3.3880E+16	3.5302E+16
Cs-134	2.4462E+02	1.8907E-04	8.4969E+20	7.6073E+15
Cs-136	7.4582E+01	1.0176E-06	4.5061E+18	2.3201E+15
Cs-137	1.8991E+02	2.1834E-03	9.5975E+21	5.9061E+15

RB Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump	
Noble gases (atoms)	3.8233E+20	0.0000E+00		
Elemental I (atoms)	2.5020E+18	0.0000E+00		
Organic I (atoms)	7.7383E+16	0.0000E+00		
Aerosols (kg)	2.3842E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.7179E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.4512E-08	
Total I (Ci)			8.6153E+03	

DW to RB Transport Group Inventory:

	Time (h) =	0.3333	Pathway	
			Filtered	Transported
Noble gases (atoms)		0.0000E+00	3.8961E+20	
Elemental I (atoms)		0.0000E+00	2.5629E+18	
Organic I (atoms)		0.0000E+00	7.9264E+16	
Aerosols (kg)		0.0000E+00	2.4293E-03	

WW to RB Transport Group Inventory:

	Time (h) =	0.3333	Pathway	
			Filtered	Transported
Noble gases (atoms)		0.0000E+00	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		0.0000E+00	0.0000E+00	

Drawdown Release from RB to Environment Transport Group Inventory:

	Time (h) =	0.3333	Pathway	
			Filtered	Transported
Noble gases (atoms)		0.0000E+00	7.2189E+18	
Elemental I (atoms)		0.0000E+00	4.7381E+16	
Organic I (atoms)		0.0000E+00	1.4654E+15	
Aerosols (kg)		0.0000E+00	4.5014E-05	

RB Exhaust to Environment Transport Group Inventory:

	Time (h) =	0.3333	Pathway	
			Filtered	Transported
Noble gases (atoms)		0.0000E+00	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		0.0000E+00	0.0000E+00	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.8173E-03	1.0011E+00	4.8186E-02
Accumulated dose (rem)		1.3941E-02	2.2853E+00	1.1065E-01

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.9194E-04	1.3629E-01	6.5597E-03
Accumulated dose (rem)		1.8978E-03	3.1110E-01	1.5064E-02

CR Doses:

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Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1051E-04	1.4277E-01	6.1633E-03	
Accumulated dose (rem)	1.8267E-04	2.2700E-01	9.8038E-03	

RB Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m		1.8038E+02	8.8862E-09	6.4475E+16	8.1316E+15
Kr-85m		4.5296E+02	5.5041E-08	3.8996E+17	1.9534E+16
Kr-85		2.4738E+01	6.3113E-05	4.4715E+20	1.0343E+15
Kr-87		7.5184E+02	2.6543E-08	1.8373E+17	3.5122E+16
Kr-88		1.1874E+03	9.4697E-08	6.4804E+17	5.2142E+16
Rb-86		2.7121E+00	3.3332E-08	2.3341E+17	1.3447E+14
Rb-88		1.0905E+03	9.0336E-09	6.1820E+16	5.2787E+16
I-131		1.1777E+03	9.4995E-06	4.3669E+19	5.8396E+16
I-132		1.5081E+03	1.4610E-07	6.6656E+17	7.8960E+16
I-133		2.4059E+03	2.1238E-06	9.6164E+18	1.2003E+17
I-134		1.8899E+03	7.0845E-08	3.1839E+17	1.1074E+17
I-135		2.1937E+03	6.2466E-07	2.7865E+18	1.1108E+17
Xe-133		3.0261E+03	1.6166E-05	7.3200E+19	1.2653E+17
Xe-133m		9.2769E+01	2.1072E-07	9.5411E+17	3.8801E+15
Xe-135		1.3280E+03	5.2002E-07	2.3197E+18	5.4676E+16
Xe-135m		4.5043E+02	4.9480E-09	2.2072E+16	2.1387E+16
Xe-138		6.2782E+02	6.5431E-09	2.8553E+16	5.0613E+16
Cs-134		2.7142E+02	2.0978E-04	9.4277E+20	1.3453E+16
Cs-136		8.2723E+01	1.1287E-06	4.9979E+18	4.1019E+15
Cs-137		2.1072E+02	2.4226E-03	1.0649E+22	1.0444E+16

RB Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	5.2496E+20	0.0000E+00	
Elemental I (atoms)	2.7663E+18	0.0000E+00	
Organic I (atoms)	1.0590E+17	0.0000E+00	
Aerosols (kg)	2.6454E-03	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.0082E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.8043E-08
Total I (Ci)			9.1753E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3847E+20
Elemental I (atoms)	0.0000E+00	2.8738E+18
Organic I (atoms)	0.0000E+00	1.0936E+17
Aerosols (kg)	0.0000E+00	2.7257E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3398E+19
Elemental I (atoms)	0.0000E+00	8.4276E+16
Organic I (atoms)	0.0000E+00	2.7139E+15
Aerosols (kg)	0.0000E+00	8.0231E-05

RB Exhaust to Environment Transport Group Inventory:

Pathway

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Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2696E-02	3.3490E+00	1.6673E-01	
Accumulated dose (rem)	3.6637E-02	5.6342E+00	2.7739E-01	

LPZ Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0897E-03	4.5591E-01	2.2698E-02	
Accumulated dose (rem)	4.9875E-03	7.6701E-01	3.7762E-02	

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6580E-04	8.8956E-01	3.8714E-02	
Accumulated dose (rem)	9.4847E-04	1.1166E+00	4.8518E-02	

RB Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
Kr-83m	7.7074E+02	3.7969E-08	2.7548E+17	3.5820E+16	
Kr-85m	2.1582E+03	2.6225E-07	1.8580E+18	9.3970E+16	
Kr-85	1.2735E+02	3.2490E-04	2.3019E+21	5.3035E+15	
Kr-87	2.9471E+03	1.0404E-07	7.2018E+17	1.4453E+17	
Kr-88	5.4105E+03	4.3149E-07	2.9528E+18	2.4187E+17	
Rb-86	3.0479E+00	3.7459E-08	2.6231E+17	3.2646E+14	
Rb-88	2.9646E+03	2.4559E-08	1.6806E+17	1.6589E+17	
Sr-89	2.2383E+01	7.7043E-07	5.2131E+18	6.9771E+14	
Sr-90	2.3958E+00	1.7564E-05	1.1752E+20	7.4674E+13	
Sr-91	2.5661E+01	7.0790E-09	4.6847E+16	8.0898E+14	
Sr-92	2.2130E+01	1.7606E-09	1.1525E+16	7.1801E+14	
Y-90	3.1872E-02	5.8582E-11	3.9199E+14	9.2429E+11	
Y-91	2.8198E-01	1.1498E-08	7.6093E+16	8.7753E+12	
Y-92	1.4797E+00	1.5378E-10	1.0066E+15	3.5217E+13	
Y-93	2.9238E-01	8.7634E-11	5.6747E+14	9.2110E+12	
Zr-95	3.3123E-01	1.5418E-08	9.7737E+16	1.0325E+13	
Zr-97	3.0681E-01	1.6049E-10	9.9641E+14	9.6242E+12	
Nb-95	3.2682E-01	8.3579E-09	5.2981E+16	1.0187E+13	
Mo-99	4.1392E+00	8.6302E-09	5.2497E+16	1.2922E+14	
Tc-99m	3.6840E+00	7.0061E-10	4.2618E+15	1.1478E+14	
Ru-103	3.6187E+00	1.1212E-07	6.5556E+17	1.1280E+14	
Ru-105	2.2068E+00	3.2830E-10	1.8829E+15	7.0483E+13	
Ru-106	1.5054E+00	4.4996E-07	2.5564E+18	4.6922E+13	
Rh-105	2.4004E+00	2.8439E-09	1.6311E+16	7.4826E+13	
Sb-127	4.1355E+00	1.5486E-08	7.3430E+16	1.2905E+14	
Sb-129	1.0966E+01	1.9500E-09	9.1033E+15	3.5047E+14	
Te-127	4.1162E+00	1.5597E-09	7.3958E+15	1.2826E+14	
Te-127m	7.0475E-01	7.4715E-08	3.5429E+17	2.1966E+13	
Te-129	1.1412E+01	5.4494E-10	2.5440E+15	3.5873E+14	
Te-129m	2.3114E+00	7.6727E-08	3.5819E+17	7.2044E+13	
Te-131m	8.5564E+00	1.0730E-08	4.9328E+16	2.6765E+14	
Te-132	6.2270E+01	2.0511E-07	9.3576E+17	1.9436E+15	
I-131	1.3699E+03	1.1050E-05	5.0798E+19	1.4320E+17	
I-132	1.5710E+03	1.5220E-07	6.9437E+17	1.8140E+17	
I-133	2.7571E+03	2.4339E-06	1.1020E+19	2.9196E+17	
I-134	1.4831E+03	5.5596E-08	2.4985E+17	2.2268E+17	
I-135	2.4257E+03	6.9071E-07	3.0812E+18	2.6501E+17	
Xe-133	1.5552E+04	8.3085E-05	3.7620E+20	6.4823E+17	
Xe-133m	4.7558E+02	1.0802E-06	4.8913E+18	1.9849E+16	
Xe-135	6.8111E+03	2.6671E-06	1.1898E+19	2.8370E+17	
Xe-135m	1.0896E+03	1.1969E-08	5.3393E+16	7.1274E+16	
Xe-138	7.4729E+02	7.7881E-09	3.3986E+16	9.6981E+16	

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Cs-134	3.0525E+02	2.3593E-04	1.0603E+21	3.2674E+16
Cs-136	9.2935E+01	1.2680E-06	5.6149E+18	9.9571E+15
Cs-137	2.3699E+02	2.7246E-03	1.1977E+22	2.5367E+16
Ba-139	2.0474E+01	1.2517E-09	5.4230E+15	6.9107E+14
Ba-140	3.2868E+01	4.4896E-07	1.9312E+18	1.0248E+15
La-140	4.8681E-01	8.7583E-10	3.7674E+15	1.3668E+13
La-141	2.5924E-01	4.5839E-11	1.9578E+14	8.3061E+12
La-142	1.9352E-01	1.3519E-11	5.7332E+13	6.4761E+12
Ce-141	7.7782E-01	2.7298E-08	1.1659E+17	2.4245E+13
Ce-143	7.4269E-01	1.1184E-09	4.7098E+15	2.3224E+13
Ce-144	6.2330E-01	1.9542E-07	8.1727E+17	1.9428E+13
Pr-143	2.9714E-01	4.4126E-09	1.8583E+16	9.2589E+12
Nd-147	1.2077E-01	1.4929E-09	6.1160E+15	3.7659E+12
Np-239	8.7622E+00	3.7769E-08	9.5168E+16	2.7363E+14
Pu-238	1.9368E-03	1.1314E-07	2.8627E+17	6.0369E+10
Pu-239	1.9534E-04	3.1427E-06	7.9187E+18	6.0883E+09
Pu-240	3.4505E-04	1.5149E-07	3.8013E+17	1.0755E+10
Pu-241	7.6659E-02	7.7517E-07	1.9370E+18	2.3894E+12
Am-241	4.3367E-05	1.2659E-08	3.1632E+16	1.3516E+09
Cm-242	1.1912E-02	3.5985E-09	8.9548E+15	3.7129E+11
Cm-244	7.8774E-04	9.6240E-09	2.3753E+16	2.4553E+10

RB Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump	
Noble gases (atoms)	2.7008E+21	0.0000E+00		
Elemental I (atoms)	3.1840E+18	0.0000E+00		
Organic I (atoms)	2.9361E+17	0.0000E+00		
Aerosols (kg)	2.9998E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.4767E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.3518E-08	
Total I (Ci)			9.6069E+03	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7704E+21
Elemental I (atoms)	0.0000E+00	3.4443E+18
Organic I (atoms)	0.0000E+00	3.0663E+17
Aerosols (kg)	0.0000E+00	3.1967E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	1.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

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Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7503E-02	2.7274E-02	2.8731E-02
Accumulated dose (rem)		6.4139E-02	5.6615E+00	3.0612E-01

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3194E-02	1.3084E-02	1.3783E-02
Accumulated dose (rem)		1.8181E-02	7.8010E-01	5.1545E-02

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.5418E-03	2.0662E+00	9.1952E-02
Accumulated dose (rem)		3.4902E-03	3.1827E+00	1.4047E-01

RB Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m		3.2210E+03	1.5867E-07	1.1513E+18	3.1498E+17
Kr-85m		1.1216E+04	1.3629E-06	9.6557E+18	9.8660E+17
Kr-85		7.7257E+02	1.9710E-03	1.3964E+22	6.3300E+16
Kr-87		1.0366E+04	3.6594E-07	2.5331E+18	1.1080E+18
Kr-88		2.5714E+04	2.0507E-06	1.4033E+19	2.3603E+18
Rb-86		3.5941E+00	4.4171E-08	3.0931E+17	7.7319E+14
Rb-88		2.1009E+04	1.7403E-07	1.1910E+18	1.3678E+18
Sr-89		6.7999E+01	2.3406E-06	1.5837E+19	7.0775E+15
Sr-90		7.2826E+00	5.3389E-05	3.5724E+20	7.5778E+14
Sr-91		7.2516E+01	2.0004E-08	1.3238E+17	7.8250E+15
Sr-92		5.2089E+01	4.1441E-09	2.7126E+16	6.1744E+15
Y-90		1.3679E-01	2.5142E-10	1.6823E+15	1.1671E+13
Y-91		8.6463E-01	3.5257E-08	2.3332E+17	8.9487E+13
Y-92		9.1130E+00	9.4706E-10	6.1993E+15	6.5327E+14
Y-93		8.2980E-01	2.4872E-10	1.6106E+15	8.9347E+13
Zr-95		1.0064E+00	4.6846E-08	2.9696E+17	1.0474E+14
Zr-97		8.9515E-01	4.6826E-10	2.9071E+15	9.5060E+13
Nb-95		9.9345E-01	2.5406E-08	1.6105E+17	1.0337E+14
Mo-99		1.2451E+01	2.5960E-08	1.5791E+17	1.3023E+15
Tc-99m		1.1185E+01	2.1272E-09	1.2939E+16	1.1586E+15
Ru-103		1.0992E+01	3.4058E-07	1.9913E+18	1.1442E+15
Ru-105		5.7387E+00	8.5371E-10	4.8964E+15	6.4595E+14
Ru-106		4.5757E+00	1.3677E-06	7.7701E+18	4.7613E+14
Rh-105		7.2757E+00	8.6200E-09	4.9439E+16	7.5770E+14
Sb-127		1.2477E+01	4.6721E-08	2.2154E+17	1.3031E+15
Sb-129		2.8392E+01	5.0489E-09	2.3570E+16	3.2029E+15
Te-127		1.2505E+01	4.7384E-09	2.2469E+16	1.2973E+15
Te-127m		2.1423E+00	2.2712E-07	1.0770E+18	2.2291E+14
Te-129		3.2104E+01	1.5330E-09	7.1565E+15	3.3991E+15
Te-129m		7.0259E+00	2.3322E-07	1.0888E+18	7.3106E+14
Te-131m		2.5415E+01	3.1872E-08	1.4652E+17	2.6750E+15
Te-132		1.8762E+02	6.1798E-07	2.8194E+18	1.9608E+16
I-131		1.7106E+03	1.3798E-05	6.3431E+19	3.5096E+17
I-132		1.6731E+03	1.6209E-07	7.3949E+17	4.0079E+17
I-133		3.3412E+03	2.9495E-06	1.3355E+19	7.0367E+17
I-134		8.4278E+02	3.1592E-08	1.4198E+17	3.7618E+17
I-135		2.7366E+03	7.7925E-07	3.4761E+18	6.1419E+17
Xe-133		9.3988E+04	5.0212E-04	2.2736E+21	7.7141E+18
Xe-133m		2.8582E+03	6.4922E-06	2.9396E+19	2.3518E+17
Xe-135		4.0151E+04	1.5722E-05	7.0135E+19	3.3344E+18
Xe-135m		1.6784E+03	1.8437E-08	8.2246E+16	2.8602E+17
Xe-138		2.4236E+02	2.5258E-09	1.1022E+16	1.7208E+17
Cs-134		3.6050E+02	2.7863E-04	1.2522E+21	7.7449E+16
Cs-136		1.0952E+02	1.4943E-06	6.6167E+18	2.3574E+16
Cs-137		2.7989E+02	3.2179E-03	1.4145E+22	6.0130E+16
Ba-139		3.7639E+01	2.3011E-09	9.9695E+15	5.0992E+15
Ba-140		9.9683E+01	1.3616E-06	5.8571E+18	1.0384E+16
La-140		2.3450E+00	4.2190E-09	1.8148E+16	1.8846E+14
La-141		6.6060E-01	1.1681E-10	4.9890E+14	7.5136E+13

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La-142	3.7523E-01	2.6212E-11	1.1117E+14	4.9359E+13
Ce-141	2.3634E+00	8.2947E-08	3.5427E+17	2.4597E+14
Ce-143	2.2107E+00	3.3289E-09	1.4019E+16	2.3243E+14
Ce-144	1.8945E+00	5.9398E-07	2.4840E+18	1.9714E+14
Pr-143	9.0467E-01	1.3435E-08	5.6577E+16	9.4033E+13
Nd-147	3.6616E-01	4.5261E-09	1.8542E+16	3.8149E+13
Np-239	2.6310E+01	1.1341E-07	2.8576E+17	2.7543E+15
Pu-238	5.8876E-03	3.4391E-07	8.7019E+17	6.1262E+11
Pu-239	5.9387E-04	9.5544E-06	2.4074E+19	6.1789E+10
Pu-240	1.0489E-03	4.6051E-07	1.1555E+18	1.0914E+11
Pu-241	2.3302E-01	2.3563E-06	5.8880E+18	2.4247E+13
Am-241	1.3185E-04	3.8488E-08	9.6175E+16	1.3718E+10
Cm-242	3.6202E-02	1.0937E-08	2.7215E+16	3.7673E+12
Cm-244	2.3945E-03	2.9255E-08	7.2203E+16	2.4916E+11

RB Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump	
Noble gases (atoms)	1.6365E+22	0.0000E+00		
Elemental I (atoms)	3.8866E+18	0.0000E+00		
Organic I (atoms)	1.1284E+18	0.0000E+00		
Aerosols (kg)	3.5886E-03	0.0000E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			4.2902E-08	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.2900E-08	
Total I (Ci)			1.0304E+04	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7398E+22
Elemental I (atoms)	0.0000E+00	4.6054E+18
Organic I (atoms)	0.0000E+00	1.2275E+18
Aerosols (kg)	0.0000E+00	4.1530E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.5016E+20
Elemental I (atoms)	3.9093E+17	3.9488E+15
Organic I (atoms)	7.3044E+16	7.3781E+14
Aerosols (kg)	3.6371E-04	3.6738E-06

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3005E-02	7.5637E-03	1.3355E-02
Accumulated dose (rem)		7.7144E-02	5.6691E+00	3.1947E-01

LPZ Doses:

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Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.2388E-03	3.6285E-03	6.4069E-03
Accumulated dose (rem)		2.4420E-02	7.8372E-01	5.7952E-02

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.9309E-04	4.0738E-01	1.8497E-02
Accumulated dose (rem)		4.1833E-03	3.5901E+00	1.5897E-01

RB Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		3.7478E+03	1.8463E-07	1.3396E+18	4.3662E+17
Kr-85m		1.3781E+04	1.6746E-06	1.1864E+19	1.4221E+18
Kr-85		9.8671E+02	2.5173E-03	1.7835E+22	9.3898E+16
Kr-87		1.1552E+04	4.0784E-07	2.8230E+18	1.4910E+18
Kr-88		3.0897E+04	2.4640E-06	1.6862E+19	3.3473E+18
Rb-86		3.5597E+00	4.3749E-08	3.0635E+17	8.9252E+14
Rb-88		2.6862E+04	2.2252E-07	1.5228E+18	2.0659E+18
Sr-89		6.9737E+01	2.4004E-06	1.6242E+19	9.4047E+15
Sr-90		7.4698E+00	5.4761E-05	3.6642E+20	1.0070E+15
Sr-91		7.3035E+01	2.0148E-08	1.3333E+17	1.0284E+16
Sr-92		5.0118E+01	3.9873E-09	2.6100E+16	7.9014E+15
Y-90		1.5735E-01	2.8922E-10	1.9352E+15	1.6481E+13
Y-91		8.9000E-01	3.6291E-08	2.4017E+17	1.1910E+14
Y-92		1.1034E+01	1.1467E-09	7.5064E+15	9.7397E+14
Y-93		8.3665E-01	2.5077E-10	1.6238E+15	1.1751E+14
Zr-95		1.0321E+00	4.8045E-08	3.0456E+17	1.3918E+14
Zr-97		9.0879E-01	4.7539E-10	2.9514E+15	1.2554E+14
Nb-95		1.0190E+00	2.6059E-08	1.6519E+17	1.3737E+14
Mo-99		1.2737E+01	2.6557E-08	1.6155E+17	1.7279E+15
Tc-99m		1.1467E+01	2.1808E-09	1.3266E+16	1.5394E+15
Ru-103		1.1272E+01	3.4927E-07	2.0421E+18	1.5203E+15
Ru-105		5.6609E+00	8.4214E-10	4.8300E+15	8.3858E+14
Ru-106		4.6932E+00	1.4028E-06	7.9697E+18	6.3274E+14
Rh-105		7.4545E+00	8.8318E-09	5.0654E+16	1.0064E+15
Sb-127		1.2774E+01	4.7832E-08	2.2681E+17	1.7297E+15
Sb-129		2.7976E+01	4.9750E-09	2.3225E+16	4.1554E+15
Te-127		1.2824E+01	4.8592E-09	2.3042E+16	1.7238E+15
Te-127m		2.1974E+00	2.3296E-07	1.1046E+18	2.9623E+14
Te-129		3.2159E+01	1.5356E-09	7.1686E+15	4.4611E+15
Te-129m		7.2063E+00	2.3921E-07	1.1167E+18	9.7153E+14
Te-131m		2.5918E+01	3.2503E-08	1.4942E+17	3.5424E+15
Te-132		1.9201E+02	6.3247E-07	2.8854E+18	2.6022E+16
I-131		1.7038E+03	1.3744E-05	6.3180E+19	4.0801E+17
I-132		1.5776E+03	1.5284E-07	6.9729E+17	4.5520E+17
I-133		3.3032E+03	2.9159E-06	1.3203E+19	8.1468E+17
I-134		6.8947E+02	2.5846E-08	1.1615E+17	4.0170E+17
I-135		2.6575E+03	7.5673E-07	3.3757E+18	7.0431E+17
Xe-133		1.1992E+05	6.4064E-04	2.9008E+21	1.1435E+19
Xe-133m		3.6412E+03	8.2706E-06	3.7449E+19	3.4825E+17
Xe-135		5.0747E+04	1.9872E-05	8.8645E+19	4.9182E+18
Xe-135m		1.4774E+03	1.6229E-08	7.2396E+16	3.4139E+17
Xe-138		1.4884E+02	1.5512E-09	6.7691E+15	1.7881E+17
Cs-134		3.5718E+02	2.7607E-04	1.2407E+21	8.9421E+16
Cs-136		1.0845E+02	1.4797E-06	6.5523E+18	2.7210E+16
Cs-137		2.7732E+02	3.1883E-03	1.4015E+22	6.9425E+16
Ba-139		3.4046E+01	2.0814E-09	9.0177E+15	6.3098E+15
Ba-140		1.0219E+02	1.3958E-06	6.0042E+18	1.3795E+16
La-140		2.7740E+00	4.9908E-09	2.1468E+16	2.7148E+14
La-141		6.4835E-01	1.1464E-10	4.8965E+14	9.7255E+13
La-142		3.4396E-01	2.4028E-11	1.0190E+14	6.1507E+13
Ce-141		2.4238E+00	8.5066E-08	3.6332E+17	3.2686E+14
Ce-143		2.2556E+00	3.3966E-09	1.4304E+16	3.0790E+14
Ce-144		1.9431E+00	6.0923E-07	2.5478E+18	2.6198E+14
Pr-143		9.2853E-01	1.3789E-08	5.8069E+16	1.2500E+14
Nd-147		3.7532E-01	4.6394E-09	1.9006E+16	5.0678E+13
Np-239		2.6904E+01	1.1597E-07	2.9221E+17	3.6535E+15

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Pu-238	6.0389E-03	3.5275E-07	8.9256E+17	8.1413E+11
Pu-239	6.0915E-04	9.8003E-06	2.4694E+19	8.2115E+10
Pu-240	1.0758E-03	4.7234E-07	1.1852E+18	1.4504E+11
Pu-241	2.3901E-01	2.4169E-06	6.0393E+18	3.2222E+13
Am-241	1.3525E-04	3.9480E-08	9.8654E+16	1.8231E+10
Cm-242	3.7131E-02	1.1217E-08	2.7914E+16	5.0064E+12
Cm-244	2.4561E-03	3.0007E-08	7.4059E+16	3.3112E+11

RB Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	2.0895E+22	0.0000E+00		
Elemental I (atoms)	3.8463E+18	0.0000E+00		
Organic I (atoms)	1.3865E+18	0.0000E+00		
Aerosols (kg)	3.5582E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.2609E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.2362E-08	
Total I (Ci)			9.9317E+03	

DW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9907E+22
Elemental I (atoms)	0.0000E+00	4.6864E+18
Organic I (atoms)	0.0000E+00	1.3756E+18
Aerosols (kg)	0.0000E+00	4.2203E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4179E+21
Elemental I (atoms)	0.0000E+00	7.4310E+16
Organic I (atoms)	0.0000E+00	1.4282E+17
Aerosols (kg)	0.0000E+00	6.1723E-05

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4694E+21
Elemental I (atoms)	4.9808E+17	5.0311E+15
Organic I (atoms)	1.0776E+17	1.0885E+15
Aerosols (kg)	4.6262E-04	4.6729E-06

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.8367E-03	4.4704E-03	9.0446E-03
Accumulated dose (rem)		8.5981E-02	5.6735E+00	3.2852E-01

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.2392E-03	2.1446E-03	4.3390E-03
Accumulated dose (rem)		2.8659E-02	7.8587E-01	6.2291E-02

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	4.2335E-04	2.2688E-01	1.0370E-02
Accumulated dose (rem)	4.6067E-03	3.8170E+00	1.6934E-01

RB Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	3.9940E+03	1.9676E-07	1.4276E+18	5.1663E+17
Kr-85m	1.5174E+04	1.8439E-06	1.3064E+19	1.7211E+18
Kr-85	1.1120E+03	2.8369E-03	2.0099E+22	1.1556E+17
Kr-87	1.1997E+04	4.2354E-07	2.9317E+18	1.7345E+18
Kr-88	3.3568E+04	2.6771E-06	1.8320E+19	4.0133E+18
Rb-86	3.5071E+00	4.3101E-08	3.0182E+17	9.6283E+14
Rb-88	3.0597E+04	2.5346E-07	1.7345E+18	2.5792E+18
Sr-89	6.8968E+01	2.3739E-06	1.6063E+19	1.0786E+16
Sr-90	7.3880E+00	5.4162E-05	3.6241E+20	1.1550E+15
Sr-91	7.1450E+01	1.9710E-08	1.3044E+17	1.1723E+16
Sr-92	4.7704E+01	3.7952E-09	2.4843E+16	8.8754E+15
Y-90	1.6709E-01	3.0712E-10	2.0550E+15	1.9645E+13
Y-91	8.8238E-01	3.5980E-08	2.3811E+17	1.3674E+14
Y-92	1.1981E+01	1.2451E-09	8.1502E+15	1.1952E+15
Y-93	8.1902E-01	2.4549E-10	1.5896E+15	1.3400E+14
Zr-95	1.0208E+00	4.7516E-08	3.0121E+17	1.5963E+14
Zr-97	8.9334E-01	4.6731E-10	2.9012E+15	1.4349E+14
Nb-95	1.0078E+00	2.5774E-08	1.6338E+17	1.5755E+14
Mo-99	1.2578E+01	2.6225E-08	1.5953E+17	1.9800E+15
Tc-99m	1.1338E+01	2.1563E-09	1.3116E+16	1.7655E+15
Ru-103	1.1148E+01	3.4541E-07	2.0195E+18	1.7436E+15
Ru-105	5.4693E+00	8.1364E-10	4.6666E+15	9.4942E+14
Ru-106	4.6418E+00	1.3874E-06	7.8824E+18	7.2571E+14
Rh-105	7.3676E+00	8.7288E-09	5.0063E+16	1.1539E+15
Sb-127	1.2620E+01	4.7255E-08	2.2408E+17	1.9826E+15
Sb-129	2.7012E+01	4.8036E-09	2.2425E+16	4.7030E+15
Te-127	1.2682E+01	4.8054E-09	2.2786E+16	1.9771E+15
Te-127m	2.1733E+00	2.3041E-07	1.0926E+18	3.3976E+14
Te-129	3.1337E+01	1.4963E-09	6.9854E+15	5.0805E+15
Te-129m	7.1273E+00	2.3659E-07	1.1045E+18	1.1143E+15
Te-131m	2.5546E+01	3.2036E-08	1.4727E+17	4.0549E+15
Te-132	1.8966E+02	6.2471E-07	2.8501E+18	2.9823E+16
I-131	1.6822E+03	1.3569E-05	6.2377E+19	4.4172E+17
I-132	1.5008E+03	1.4540E-07	6.6335E+17	4.8581E+17
I-133	3.2467E+03	2.8661E-06	1.2977E+19	8.7989E+17
I-134	6.0491E+02	2.2675E-08	1.0191E+17	4.1457E+17
I-135	2.5842E+03	7.3585E-07	3.2825E+18	7.5649E+17
Xe-133	1.3505E+05	7.2149E-04	3.2669E+21	1.4067E+19
Xe-133m	4.0967E+03	9.3053E-06	4.2133E+19	4.2813E+17
Xe-135	5.6740E+04	2.2219E-05	9.9113E+19	6.0287E+18
Xe-135m	1.2840E+03	1.4105E-08	6.2918E+16	3.6922E+17
Xe-138	1.0810E+02	1.1266E-09	4.9164E+15	1.8145E+17
Cs-134	3.5198E+02	2.7204E-04	1.2226E+21	9.6476E+16
Cs-136	1.0684E+02	1.4577E-06	6.4547E+18	2.9351E+16
Cs-137	2.7328E+02	3.1419E-03	1.3811E+22	7.4904E+16
Ba-139	3.1227E+01	1.9091E-09	8.2710E+15	6.9594E+15
Ba-140	1.0103E+02	1.3801E-06	5.9365E+18	1.5819E+16
La-140	2.9912E+00	5.3815E-09	2.3148E+16	3.2742E+14
La-141	6.2451E-01	1.1043E-10	4.7164E+14	1.0993E+14
La-142	3.1801E-01	2.2215E-11	9.4213E+13	6.8096E+13
Ce-141	2.3971E+00	8.4127E-08	3.5931E+17	3.7487E+14
Ce-143	2.2239E+00	3.3488E-09	1.4103E+16	3.5251E+14
Ce-144	1.9218E+00	6.0255E-07	2.5199E+18	3.0047E+14
Pr-143	9.1878E-01	1.3644E-08	5.7459E+16	1.4339E+14
Nd-147	3.7107E-01	4.5868E-09	1.8791E+16	5.8111E+13
Np-239	2.6561E+01	1.1449E-07	2.8848E+17	4.1859E+15
Pu-238	5.9728E-03	3.4889E-07	8.8279E+17	9.3376E+11
Pu-239	6.0250E-04	9.6933E-06	2.4424E+19	9.4182E+10
Pu-240	1.0640E-03	4.6717E-07	1.1722E+18	1.6635E+11
Pu-241	2.3640E-01	2.3904E-06	5.9733E+18	3.6957E+13
Am-241	1.3378E-04	3.9050E-08	9.7579E+16	2.0910E+10
Cm-242	3.6724E-02	1.1094E-08	2.7608E+16	5.7419E+12
Cm-244	2.4292E-03	2.9678E-08	7.3248E+16	3.7977E+11

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RB Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump	
Noble gases (atoms)	2.3543E+22	0.0000E+00		
Elemental I (atoms)	3.7778E+18	0.0000E+00		
Organic I (atoms)	1.5365E+18	0.0000E+00		
Aerosols (kg)	3.5066E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.1995E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.1505E-08	
Total I (Ci)			9.6188E+03	

DW to RB Transport Group Inventory:

		Pathway	
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1883E+22	
Elemental I (atoms)	0.0000E+00	4.6890E+18	
Organic I (atoms)	0.0000E+00	1.4919E+18	
Aerosols (kg)	0.0000E+00	4.2255E-03	

WW to RB Transport Group Inventory:

		Pathway	
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4667E+21	
Elemental I (atoms)	0.0000E+00	7.5976E+16	
Organic I (atoms)	0.0000E+00	2.0455E+17	
Aerosols (kg)	0.0000E+00	6.4099E-05	

Drawdown Release from RB to Environment Transport Group Inventory:

		Pathway	
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19	
Elemental I (atoms)	0.0000E+00	2.0694E+17	
Organic I (atoms)	0.0000E+00	1.0383E+16	
Aerosols (kg)	0.0000E+00	1.9670E-04	

RB Exhaust to Environment Transport Group Inventory:

		Pathway	
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8405E+21	
Elemental I (atoms)	5.6116E+17	5.6683E+15	
Organic I (atoms)	1.3194E+17	1.3328E+15	
Aerosols (kg)	5.2102E-04	5.2628E-06	

EAB Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0816E-01	9.0573E-02	3.1248E-01	
Accumulated dose (rem)	3.9414E-01	5.7641E+00	6.4100E-01	

LPZ Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4783E-01	4.3451E-02	1.4990E-01	
Accumulated dose (rem)	1.7649E-01	8.2932E-01	2.1220E-01	

CR Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4720E-02	2.9286E+00	1.4912E-01	
Accumulated dose (rem)	1.9326E-02	6.7456E+00	3.1846E-01	

RB Compartment Nuclide Inventory:

Time (h) =	6.0000	Ci	kg	Atoms	Decay
Kr-83m	3.3473E+03	1.6490E-07	1.1964E+18	2.5917E+18	

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Kr-85m	2.7870E+04	3.3865E-06	2.3993E+19	1.3472E+19
Kr-85	3.5648E+03	9.0946E-03	6.4434E+22	1.2927E+18
Kr-87	5.4050E+03	1.9082E-07	1.3208E+18	6.4383E+18
Kr-88	4.4695E+04	3.5644E-06	2.4393E+19	2.5956E+19
Rb-86	2.4768E+00	3.0440E-08	2.1316E+17	2.3742E+15
Rb-88	5.5977E+04	4.6371E-07	3.1733E+18	2.6229E+19
Sr-89	5.3890E+01	1.8549E-06	1.2551E+19	3.9903E+16
Sr-90	5.7847E+00	4.2407E-05	2.8376E+20	4.2771E+15
Sr-91	4.3021E+01	1.1868E-08	7.8538E+16	3.8419E+16
Sr-92	1.4874E+01	1.1833E-09	7.7457E+15	2.2296E+16
Y-90	3.4172E-01	6.2808E-10	4.2027E+15	1.4350E+14
Y-91	7.2522E-01	2.9572E-08	1.9570E+17	5.1867E+14
Y-92	1.6101E+01	1.6733E-09	1.0953E+16	8.7593E+15
Y-93	5.0090E-01	1.5014E-10	9.7219E+14	4.4221E+14
Zr-95	7.9796E-01	3.7144E-08	2.3546E+17	5.9067E+14
Zr-97	6.0345E-01	3.1567E-10	1.9598E+15	4.9551E+14
Nb-95	7.8913E-01	2.0181E-08	1.2793E+17	5.8344E+14
Mo-99	9.4830E+00	1.9772E-08	1.2027E+17	7.2001E+15
Tc-99m	8.7639E+00	1.6667E-09	1.0138E+16	6.5048E+15
Ru-103	8.7055E+00	2.6974E-07	1.5771E+18	6.4486E+15
Ru-105	2.4412E+00	3.6317E-10	2.0829E+15	2.7377E+15
Ru-106	3.6334E+00	1.0860E-06	6.1700E+18	2.6870E+15
Rh-105	5.5983E+00	6.6327E-09	3.8041E+16	4.2268E+15
Sb-127	9.6177E+00	3.6014E-08	1.7077E+17	7.2471E+15
Sb-129	1.1870E+01	2.1109E-09	9.8542E+15	1.3476E+16
Te-127	9.8742E+00	3.7415E-09	1.7742E+16	7.3045E+15
Te-127m	1.7017E+00	1.8041E-07	8.5548E+17	1.2582E+15
Te-129	1.6359E+01	7.8115E-10	3.6467E+15	1.5854E+16
Te-129m	5.5743E+00	1.8504E-07	8.6381E+17	4.1248E+15
Te-131m	1.8406E+01	2.3082E-08	1.0611E+17	1.4431E+16
Te-132	1.4384E+02	4.7378E-07	2.1615E+18	1.0876E+17
I-131	1.2581E+03	1.0148E-05	4.6653E+19	1.1371E+18
I-132	5.0094E+02	4.8531E-08	2.2141E+17	9.1272E+17
I-133	2.1813E+03	1.9255E-06	8.7186E+18	2.1559E+18
I-134	2.6600E+01	9.9713E-10	4.4813E+15	5.0276E+17
I-135	1.3420E+03	3.8212E-07	1.7046E+18	1.6595E+18
Xe-133	4.2496E+05	2.2703E-03	1.0280E+22	1.5551E+20
Xe-133m	1.2553E+04	2.8513E-05	1.2911E+20	4.6538E+18
Xe-135	1.4075E+05	5.5115E-05	2.4586E+20	5.8094E+19
Xe-135m	2.3939E+02	2.6298E-09	1.1731E+16	5.7205E+17
Xe-138	9.1349E-03	9.5203E-14	4.1545E+11	1.8776E+17
Cs-134	2.4994E+02	1.9318E-04	8.6816E+20	2.3848E+17
Cs-136	7.5274E+01	1.0271E-06	4.5478E+18	7.2297E+16
Cs-137	1.9408E+02	2.2313E-03	9.8081E+21	1.8517E+17
Ba-139	3.9997E+00	2.4453E-10	1.0594E+15	1.3272E+16
Ba-140	7.8466E+01	1.0718E-06	4.6104E+18	5.8349E+16
La-140	6.8239E+00	1.2277E-08	5.2810E+16	2.7286E+15
La-141	2.5915E-01	4.5823E-11	1.9571E+14	3.0782E+14
La-142	4.9345E-02	3.4471E-12	1.4619E+13	1.3679E+14
Ce-141	1.8721E+00	6.5703E-08	2.8062E+17	1.3866E+15
Ce-143	1.6145E+00	2.4311E-09	1.0238E+16	1.2591E+15
Ce-144	1.5042E+00	4.7162E-07	1.9723E+18	1.1125E+15
Pr-143	7.2650E-01	1.0789E-08	4.5434E+16	5.3345E+14
Nd-147	2.8780E-01	3.5576E-09	1.4574E+16	2.1421E+14
Np-239	1.9898E+01	8.5772E-08	2.1612E+17	1.5176E+16
Pu-238	4.6767E-03	2.7318E-07	6.9122E+17	3.4579E+12
Pu-239	4.7199E-04	7.5936E-06	1.9134E+19	3.4886E+11
Pu-240	8.3313E-04	3.6579E-07	9.1785E+17	6.1601E+11
Pu-241	1.8509E-01	1.8716E-06	4.6769E+18	1.3686E+14
Am-241	1.0487E-04	3.0611E-08	7.6490E+16	7.7475E+10
Cm-242	2.8736E-02	8.6810E-09	2.1603E+16	2.1256E+13
Cm-244	1.9020E-03	2.3237E-08	5.7351E+16	1.4063E+12

RB Transport Group Inventory:

Time (h) =	6.0000	Atmosphere	Sump
Noble gases (atoms)	7.5139E+22	0.0000E+00	
Elemental I (atoms)	2.4410E+18	0.0000E+00	
Organic I (atoms)	4.3178E+18	0.0000E+00	
Aerosols (kg)	2.4956E-03	0.0000E+00	

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Dose Effective (Ci/cc) I-131 (Thyroid)	3.0274E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)	3.5885E-08
Total I (Ci)	5.3089E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.9125E+22
Elemental I (atoms)	0.0000E+00	4.7144E+18
Organic I (atoms)	0.0000E+00	4.2032E+18
Aerosols (kg)	0.0000E+00	4.3426E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8542E+22
Elemental I (atoms)	0.0000E+00	8.9375E+16
Organic I (atoms)	0.0000E+00	1.6437E+18
Aerosols (kg)	0.0000E+00	1.2630E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 6.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2331E+22
Elemental I (atoms)	1.7748E+18	1.7927E+16
Organic I (atoms)	1.3414E+18	1.3550E+16
Aerosols (kg)	1.6986E-03	1.7157E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 8.0000			
Delta dose (rem)	1.7257E-01	3.9347E-02	1.7446E-01
Accumulated dose (rem)	5.6670E-01	5.8034E+00	8.1546E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 8.0000			
Delta dose (rem)	8.2785E-02	1.8876E-02	8.3693E-02
Accumulated dose (rem)	2.5928E-01	8.4820E-01	2.9589E-01

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 8.0000			
Delta dose (rem)	1.0868E-02	5.5384E-01	4.0997E-02
Accumulated dose (rem)	3.0194E-02	7.2994E+00	3.5946E-01

RB Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 8.0000				
Kr-83m	2.0296E+03	9.9986E-08	7.2546E+17	3.3046E+18
Kr-85m	2.6131E+04	3.1753E-06	2.2497E+19	2.0776E+19
Kr-85	4.5547E+03	1.1620E-02	8.2326E+22	2.3857E+18
Kr-87	2.3215E+03	8.1958E-08	5.6731E+17	7.4259E+18
Kr-88	3.5050E+04	2.7952E-06	1.9129E+19	3.6694E+19
Rb-86	2.0611E+00	2.5330E-08	1.7737E+17	2.9738E+15
Rb-88	4.3908E+04	3.6373E-07	2.4891E+18	3.8364E+19
Sr-89	4.7779E+01	1.6446E-06	1.1128E+19	5.3375E+16

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Sr-90	5.1345E+00	3.7641E-05	2.5187E+20	5.7240E+15
Sr-91	3.3001E+01	9.1038E-09	6.0246E+16	4.8446E+16
Sr-92	7.9155E+00	6.2974E-10	4.1222E+15	2.5223E+16
Y-90	4.0415E-01	7.4284E-10	4.9705E+15	2.4215E+14
Y-91	6.5722E-01	2.6799E-08	1.7735E+17	7.0188E+14
Y-92	1.2864E+01	1.3369E-09	8.7508E+15	1.2594E+16
Y-93	3.8759E-01	1.1617E-10	7.5226E+14	5.5944E+14
Zr-95	7.0764E-01	3.2940E-08	2.0881E+17	7.9017E+14
Zr-97	4.9345E-01	2.5813E-10	1.6025E+15	6.4055E+14
Nb-95	7.0044E-01	1.7913E-08	1.1355E+17	7.8082E+14
Mo-99	8.2423E+00	1.7185E-08	1.0454E+17	9.5479E+15
Tc-99m	7.6947E+00	1.4634E-09	8.9016E+15	8.6738E+15
Ru-103	7.7157E+00	2.3907E-07	1.3978E+18	8.6246E+15
Ru-105	1.5858E+00	2.3590E-10	1.3530E+15	3.2639E+15
Ru-106	3.2246E+00	9.6383E-07	5.4758E+18	3.5958E+15
Rh-105	4.8497E+00	5.7457E-09	3.2954E+16	5.6106E+15
Sb-127	8.4097E+00	3.1491E-08	1.4932E+17	9.6352E+15
Sb-129	7.6439E+00	1.3593E-09	6.3457E+15	1.6024E+16
Te-127	8.7223E+00	3.3050E-09	1.5672E+16	9.7599E+15
Te-127m	1.5105E+00	1.6014E-07	7.5934E+17	1.6839E+15
Te-129	1.1535E+01	5.5081E-10	2.5714E+15	1.9428E+16
Te-129m	4.9427E+00	1.6407E-07	7.6594E+17	5.5184E+15
Te-131m	1.5599E+01	1.9563E-08	8.9931E+16	1.8932E+16
Te-132	1.2543E+02	4.1314E-07	1.8849E+18	1.4442E+17
I-131	1.0872E+03	8.7694E-06	4.0313E+19	1.4476E+18
I-132	3.0312E+02	2.9366E-08	1.3397E+17	1.0160E+18
I-133	1.7758E+03	1.5676E-06	7.0980E+18	2.6788E+18
I-134	4.7617E+00	1.7850E-10	8.0218E+14	5.0613E+17
I-135	9.4687E+02	2.6962E-07	1.2027E+18	1.9600E+18
Xe-133	5.3721E+05	2.8700E-03	1.2995E+22	2.8509E+20
Xe-133m	1.5631E+04	3.5504E-05	1.6076E+20	8.4518E+18
Xe-135	1.5463E+05	6.0551E-05	2.7011E+20	9.8033E+19
Xe-135m	1.6876E+02	1.8538E-09	8.2696E+15	6.1920E+17
Xe-138	3.3359E-05	3.4766E-16	1.5171E+09	1.8776E+17
Cs-134	2.0861E+02	1.6123E-04	7.2461E+20	2.9908E+17
Cs-136	6.2556E+01	8.5352E-07	3.7794E+18	9.0510E+16
Cs-137	1.6200E+02	1.8625E-03	8.1869E+21	2.3223E+17
Ba-139	1.2985E+00	7.9387E-11	3.4394E+14	1.3909E+16
Ba-140	6.9332E+01	9.4705E-07	4.0738E+18	7.7932E+16
La-140	8.1481E+00	1.4659E-08	6.3057E+16	4.7090E+15
La-141	1.6165E-01	2.8583E-11	1.2208E+14	3.6263E+14
La-142	1.7822E-02	1.2450E-12	5.2798E+12	1.4501E+14
Ce-141	1.6591E+00	5.8229E-08	2.4870E+17	1.8546E+15
Ce-143	1.3741E+00	2.0691E-09	8.7137E+15	1.6547E+15
Ce-144	1.3349E+00	4.1853E-07	1.7503E+18	1.4887E+15
Pr-143	6.4797E-01	9.6225E-09	4.0523E+16	7.1557E+14
Nd-147	2.5412E-01	3.1412E-09	1.2869E+16	2.8602E+14
Np-239	1.7234E+01	7.4288E-08	1.8718E+17	2.0094E+16
Pu-238	4.1512E-03	2.4248E-07	6.1355E+17	4.6277E+12
Pu-239	4.1906E-04	6.7420E-06	1.6988E+19	4.6693E+11
Pu-240	7.3950E-04	3.2468E-07	8.1470E+17	8.2440E+11
Pu-241	1.6429E-01	1.6613E-06	4.1512E+18	1.8315E+14
Am-241	9.3141E-05	2.7188E-08	6.7937E+16	1.0371E+11
Cm-242	2.5497E-02	7.7026E-09	1.9168E+16	2.8443E+13
Cm-244	1.6882E-03	2.0625E-08	5.0906E+16	1.8821E+12

RB Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump	
Noble gases (atoms)	9.5794E+22	0.0000E+00		
Elemental I (atoms)	1.9281E+18	0.0000E+00		
Organic I (atoms)	5.3445E+18	0.0000E+00		
Aerosols (kg)	2.0860E-03	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.5703E-08	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.0065E-08	
Total I (Ci)			4.1177E+03	

DW to RB Transport Group Inventory:

Pathway

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Time (h) =	8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5232E+22	
Elemental I (atoms)	0.0000E+00	4.7279E+18	
Organic I (atoms)	0.0000E+00	5.6533E+18	
Aerosols (kg)	0.0000E+00	4.4075E-03	

WW to RB Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered
Noble gases (atoms)	0.0000E+00	4.2400E+22
Elemental I (atoms)	0.0000E+00	9.6566E+16
Organic I (atoms)	0.0000E+00	2.4134E+18
Aerosols (kg)	0.0000E+00	1.6073E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered
Noble gases (atoms)	0.0000E+00	4.1453E+22
Elemental I (atoms)	2.2542E+18	2.2770E+16
Organic I (atoms)	2.4125E+18	2.4369E+16
Aerosols (kg)	2.2019E-03	2.2242E-05

EAB Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8637E-01	1.8397E-01	7.9503E-01	
Accumulated dose (rem)	1.3531E+00	5.9874E+00	1.6105E+00	

LPZ Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4373E-02	1.7292E-03	1.4454E-02	
Accumulated dose (rem)	2.7365E-01	8.4992E-01	3.1034E-01	

CR Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4853E-02	5.2169E-01	7.3535E-02	
Accumulated dose (rem)	6.5047E-02	7.8211E+00	4.3299E-01	

RB Compartment Nuclide Inventory:

Time (h) =	24.0000	Ci	kg	Atoms	Decay
Kr-83m	8.9436E+00	4.4059E-10	3.1967E+15	4.1765E+18	
Kr-85m	3.7640E+03	4.5738E-07	3.2405E+18	4.8250E+19	
Kr-85	7.7987E+03	1.9896E-02	1.4096E+23	1.6669E+19	
Kr-87	6.4839E-01	2.2890E-11	1.5845E+14	8.0797E+18	
Kr-88	1.2088E+03	9.6398E-08	6.5969E+17	6.0492E+19	
Rb-86	6.8047E-01	8.3629E-09	5.8561E+16	5.4309E+15	
Rb-88	3.6628E+03	3.0342E-08	2.0764E+17	6.5263E+19	
Sr-89	2.7205E+01	9.3642E-07	6.3362E+18	1.2647E+17	
Sr-90	2.9503E+00	2.1629E-05	1.4472E+20	1.3612E+16	
Sr-91	5.9009E+00	1.6279E-09	1.0773E+16	8.0031E+16	
Sr-92	7.5957E-02	6.0430E-12	3.9556E+13	2.8650E+16	
Y-90	6.5800E-01	1.2094E-09	8.0926E+15	1.3634E+15	
Y-91	4.0948E-01	1.6697E-08	1.1050E+17	1.7573E+15	
Y-92	7.2817E-01	7.5675E-11	4.9535E+14	2.1950E+16	
Y-93	7.4281E-02	2.2264E-11	1.4417E+14	9.3983E+14	

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Zr-95	4.0371E-01	1.8792E-08	1.1912E+17	1.8738E+15
Zr-97	1.4711E-01	7.6952E-11	4.7775E+14	1.2139E+15
Nb-95	4.0248E-01	1.0293E-08	6.5247E+16	1.8566E+15
Mo-99	4.0037E+00	8.3477E-09	5.0779E+16	2.1297E+16
Tc-99m	4.0103E+00	7.6268E-10	4.6393E+15	1.9610E+16
Ru-103	4.3819E+00	1.3577E-07	7.9382E+17	2.0415E+16
Ru-105	7.4960E-02	1.1151E-11	6.3958E+13	4.2622E+15
Ru-106	1.8506E+00	5.5315E-07	3.1426E+18	8.5469E+15
Rh-105	2.1218E+00	2.5138E-09	1.4418E+16	1.2259E+16
Sb-127	4.2859E+00	1.6049E-08	7.6102E+16	2.1879E+16
Sb-129	3.3712E-01	5.9949E-11	2.7986E+14	2.0746E+16
Te-127	4.7823E+00	1.8121E-09	8.5926E+15	2.2589E+16
Te-127m	8.6778E-01	9.1998E-08	4.3624E+17	4.0041E+15
Te-129	2.9000E+00	1.3847E-10	6.4644E+14	2.9148E+16
Te-129m	2.8062E+00	9.3151E-08	4.3486E+17	1.3073E+16
Te-131m	6.1937E+00	7.7673E-09	3.5707E+16	3.9319E+16
Te-132	6.2545E+01	2.0602E-07	9.3989E+17	3.2529E+17
I-131	5.1396E+02	4.1457E-06	1.9058E+19	2.9660E+18
I-132	7.5142E+01	7.2797E-09	3.3212E+16	1.2634E+18
I-133	5.2115E+02	4.6005E-07	2.0831E+18	4.7124E+18
I-134	7.6350E-06	2.8620E-16	1.2862E+09	5.0687E+17
I-135	8.8462E+01	2.5190E-08	1.1237E+17	2.6829E+18
Xe-133	8.4442E+05	4.5112E-03	2.0427E+22	1.8944E+21
Xe-133m	2.1760E+04	4.9426E-05	2.2380E+20	5.2376E+19
Xe-135	7.8322E+04	3.0670E-05	1.3681E+20	3.6513E+20
Xe-135m	4.1035E+01	4.5077E-10	2.0108E+15	7.3029E+17
Cs-134	7.0557E+01	5.4534E-05	2.4508E+20	5.5022E+17
Cs-136	2.0437E+01	2.7885E-07	1.2348E+18	1.6477E+17
Cs-137	5.4825E+01	6.3030E-04	2.7706E+21	4.2730E+17
Ba-139	2.3901E-04	1.4612E-14	6.3307E+10	1.4220E+16
Ba-140	3.8421E+01	5.2482E-07	2.2575E+18	1.8272E+17
La-140	1.2865E+01	2.3145E-08	9.9558E+16	2.7044E+16
La-141	5.5258E-03	9.7709E-13	4.1732E+12	4.5603E+14
La-142	7.6937E-06	5.3745E-16	2.2793E+09	1.4973E+14
Ce-141	9.4050E-01	3.3008E-08	1.4098E+17	4.3881E+15
Ce-143	5.6422E-01	8.4962E-10	3.5780E+15	3.4762E+15
Ce-144	7.6583E-01	2.4011E-07	1.0042E+18	3.5380E+15
Pr-143	3.8195E-01	5.6721E-09	2.3887E+16	1.7231E+15
Nd-147	1.4001E-01	1.7306E-09	7.0899E+15	6.6908E+14
Np-239	8.1388E+00	3.5083E-08	8.8398E+16	4.4358E+16
Pu-238	2.3856E-03	1.3935E-07	3.5259E+17	1.1005E+13
Pu-239	2.4128E-04	3.8818E-06	9.7810E+18	1.1113E+12
Pu-240	4.2494E-04	1.8657E-07	4.6815E+17	1.9605E+12
Pu-241	9.4397E-02	9.5454E-07	2.3852E+18	4.3554E+14
Am-241	5.3794E-05	1.5702E-08	3.9237E+16	2.4712E+11
Cm-242	1.4610E-02	4.4137E-09	1.0983E+16	6.7565E+13
Cm-244	9.7004E-04	1.1851E-08	2.9250E+16	4.4756E+12

RB Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	1.6175E+23	0.0000E+00	
Elemental I (atoms)	3.4948E+17	0.0000E+00	
Organic I (atoms)	7.8725E+18	0.0000E+00	
Aerosols (kg)	7.1779E-04	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0990E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.2075E-08
Total I (Ci)			1.1987E+03

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0108E+23
Elemental I (atoms)	0.0000E+00	4.8272E+18
Organic I (atoms)	0.0000E+00	1.6277E+19
Aerosols (kg)	0.0000E+00	4.9221E-03

WW to RB Transport Group Inventory:

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	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5166E+23
Elemental I (atoms)	0.0000E+00	1.4925E+17
Organic I (atoms)	0.0000E+00	8.0522E+18
Aerosols (kg)	0.0000E+00	4.3388E-04

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8868E+23
Elemental I (atoms)	3.8417E+18	3.8805E+16
Organic I (atoms)	1.5049E+19	1.5201E+17
Aerosols (kg)	4.3349E-03	4.3787E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	7.1012E-01	2.1742E-01	7.2025E-01
Accumulated dose (rem)	2.0632E+00	6.2048E+00	2.3307E+00

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	5.5418E-03	1.1150E-03	5.5937E-03
Accumulated dose (rem)	2.7919E-01	8.5104E-01	3.1594E-01

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 96.0000			
Delta dose (rem)	1.2600E-02	7.7090E-03	1.3320E-02
Accumulated dose (rem)	7.7648E-02	7.8288E+00	4.4631E-01

RB Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 96.0000				
Kr-85m	2.8942E-02	3.5169E-12	2.4916E+13	5.0818E+19
Kr-85	4.1272E+03	1.0529E-02	7.4600E+22	6.0779E+19
Kr-88	1.4944E-05	1.1917E-15	8.1555E+09	6.1045E+19
Rb-86	1.7969E-01	2.2084E-09	1.5464E+16	7.8051E+15
Rb-88	4.5282E-05	3.7511E-16	2.5670E+09	6.5990E+19
Sr-89	1.0841E+01	3.7314E-07	2.5248E+18	2.5148E+17
Sr-90	1.2248E+00	8.9791E-06	6.0082E+19	2.7418E+16
Sr-91	1.2815E-02	3.5351E-12	2.3395E+13	8.6885E+16
Sr-92	3.1696E-10	2.5217E-20	1.6506E+05	2.8681E+16
Y-90	7.9148E-01	1.4548E-09	9.7342E+15	7.3245E+15
Y-91	1.7046E-01	6.9508E-09	4.5999E+16	3.6979E+15
Y-92	3.1009E-07	3.2226E-17	2.1094E+08	2.2356E+16
Y-93	2.2040E-04	6.6060E-14	4.2777E+11	1.0303E+15
Zr-95	1.6227E-01	7.5534E-09	4.7881E+16	3.7359E+15
Zr-97	3.1873E-03	1.6673E-12	1.0351E+13	1.4750E+15
Nb-95	1.6690E-01	4.2682E-09	2.7057E+16	3.7386E+15
Mo-99	7.8045E-01	1.6272E-09	9.8985E+15	3.5012E+16
Tc-99m	8.0014E-01	1.5217E-10	9.2564E+14	3.2886E+16
Ru-103	1.7256E+00	5.3469E-08	3.1262E+17	4.0446E+16
Ru-105	4.0884E-07	6.0820E-17	3.4883E+08	4.3096E+15
Ru-106	7.6409E-01	2.2839E-07	1.2975E+18	1.7186E+16
Rh-105	2.1590E-01	2.5579E-10	1.4670E+15	1.8048E+16
Sb-127	1.0369E+00	3.8829E-09	1.8412E+16	3.7848E+16

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Sb-129	1.3455E-06	2.3928E-16	1.1170E+09	2.0955E+16
Te-127	1.3460E+00	5.1001E-10	2.4184E+15	4.1008E+16
Te-127m	3.5819E-01	3.7973E-08	1.8006E+17	8.0562E+15
Te-129	9.4723E-01	4.5230E-11	2.1115E+14	3.7709E+16
Te-129m	1.0954E+00	3.6362E-08	1.6975E+17	2.5852E+16
Te-131m	4.8726E-01	6.1106E-10	2.8091E+15	5.4854E+16
Te-132	1.3719E+01	4.5188E-08	2.0616E+17	5.4950E+17
I-131	1.5487E+02	1.2492E-06	5.7426E+18	5.0196E+18
I-132	1.6375E+01	1.5864E-09	7.2373E+15	1.4957E+18
I-133	1.8433E+01	1.6272E-08	7.3676E+16	5.7351E+18
I-135	1.8130E-02	5.1626E-12	2.3030E+13	2.7585E+18
Xe-133	3.0318E+05	1.6197E-03	7.3338E+21	5.9117E+21
Xe-133m	4.5356E+03	1.0302E-05	4.6648E+19	1.3534E+20
Xe-135	1.7141E+02	6.7121E-08	2.9942E+17	4.6281E+20
Xe-135m	8.4103E-03	9.2387E-14	4.1213E+11	7.4299E+17
Cs-134	2.0771E+01	1.6054E-05	7.2147E+19	8.0767E+17
Cs-136	5.1474E+00	7.0233E-08	3.1099E+17	2.3472E+17
Cs-137	1.6181E+01	1.8603E-04	8.1772E+20	6.2756E+17
Ba-140	1.3551E+01	1.8510E-07	7.9622E+17	3.5010E+17
La-140	1.1913E+01	2.1433E-08	9.2195E+16	1.2845E+17
La-141	7.0085E-09	1.2393E-18	5.2929E+06	4.5919E+14
Ce-141	3.6635E-01	1.2857E-08	5.4914E+16	8.6668E+15
Ce-143	5.1634E-02	7.7753E-11	3.2744E+14	4.9604E+15
Ce-144	3.1567E-01	9.8973E-08	4.1391E+17	7.1103E+15
Pr-143	1.5286E-01	2.2700E-09	9.5597E+15	3.5033E+15
Nd-147	4.8104E-02	5.9462E-10	2.4360E+15	1.2722E+15
Np-239	1.3976E+00	6.0242E-09	1.5179E+16	7.0947E+16
Pu-238	9.9088E-04	5.7880E-08	1.4645E+17	2.2171E+13
Pu-239	1.0072E-04	1.6204E-06	4.0829E+18	2.2435E+12
Pu-240	1.7645E-04	7.7471E-08	1.9439E+17	3.9492E+12
Pu-241	3.9181E-02	3.9620E-07	9.9003E+17	8.7723E+14
Am-241	2.2851E-05	6.6702E-09	1.6667E+16	5.0141E+11
Cm-242	5.9896E-03	1.8094E-09	4.5027E+15	1.3555E+14
Cm-244	4.0266E-04	4.9194E-09	1.2141E+16	9.0146E+12

RB Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump	
Noble gases (atoms)	8.1980E+22	0.0000E+00	
Elemental I (atoms)	2.7361E+16	0.0000E+00	
Organic I (atoms)	2.9214E+18	0.0000E+00	
Aerosols (kg)	2.1505E-04	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.8768E-09
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.9196E-09
Total I (Ci)			1.8969E+02

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.4408E+23
Elemental I (atoms)	0.0000E+00	4.9982E+18
Organic I (atoms)	0.0000E+00	3.4584E+19
Aerosols (kg)	0.0000E+00	6.0608E-03

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8595E+23
Elemental I (atoms)	0.0000E+00	2.3972E+17
Organic I (atoms)	0.0000E+00	1.7734E+19
Aerosols (kg)	0.0000E+00	1.0361E-03

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17

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Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0416E+24
Elemental I (atoms)	4.3925E+18	4.4369E+16
Organic I (atoms)	4.6235E+19	4.6702E+17
Aerosols (kg)	6.5554E-03	6.6217E-05

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7695E-01	4.6238E-01	1.0116E+00
Accumulated dose (rem)	3.0402E+00	6.6672E+00	3.3423E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5249E-03	7.8529E-04	2.5838E-03
Accumulated dose (rem)	2.8172E-01	8.5183E-01	3.1852E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.7227E-03	6.4441E-03	8.2050E-03
Accumulated dose (rem)	8.5370E-02	7.8352E+00	4.5452E-01

RB Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	3.2970E+03	8.4115E-03	5.9594E+22	3.6793E+20
Rb-86	5.4869E-02	6.7434E-10	4.7220E+15	1.6545E+16
Sr-89	6.0877E+00	2.0954E-07	1.4179E+18	9.3581E+17
Sr-90	9.8112E-01	7.1926E-06	4.8128E+19	1.1868E+17
Y-90	9.8628E-01	1.8128E-09	1.2130E+16	9.3375E+16
Y-91	1.0054E-01	4.0997E-09	2.7131E+16	1.4702E+16
Zr-95	9.8240E-02	4.5730E-09	2.8988E+16	1.4336E+16
Nb-95	1.2474E-01	3.1901E-09	2.0222E+16	1.5858E+16
Mo-99	8.9255E-04	1.8610E-12	1.1320E+13	4.4573E+16
Tc-99m	9.1508E-04	1.7403E-13	1.0586E+12	4.2194E+16
Ru-103	8.7515E-01	2.7116E-08	1.5854E+17	1.4452E+17
Ru-106	5.8382E-01	1.7450E-07	9.9141E+17	7.2845E+16
Rh-105	8.4401E-07	9.9995E-16	5.7351E+09	1.9488E+16
Sb-127	7.7129E-03	2.8881E-11	1.3695E+14	5.5294E+16
Te-127	2.6057E-01	9.8735E-11	4.6818E+14	8.1611E+16
Te-127m	2.4821E-01	2.6314E-08	1.2478E+17	3.3106E+16
Te-129	4.4453E-01	2.1226E-11	9.9092E+13	7.9287E+16
Te-129m	5.1408E-01	1.7065E-08	7.9664E+16	8.9696E+16
Te-131m	2.1415E-07	2.6856E-16	1.2346E+09	5.7620E+16
Te-132	4.3613E-02	1.4366E-10	6.5540E+14	7.4703E+17
I-131	1.3214E+01	1.0659E-07	4.9000E+17	9.8019E+18
I-132	5.2057E-02	5.0432E-12	2.3008E+13	1.7001E+18
I-133	1.3774E-08	1.2159E-17	5.5055E+07	5.8080E+18
Xe-133	7.9191E+03	4.2307E-05	1.9156E+20	1.2664E+22
Xe-133m	1.1255E+00	2.5566E-09	1.1576E+16	1.8073E+20
Cs-134	1.6267E+01	1.2573E-05	5.6504E+19	2.3384E+18
Cs-136	1.0432E+00	1.4234E-08	6.3029E+16	4.4830E+17
Cs-137	1.2958E+01	1.4897E-04	6.5484E+20	1.8329E+18
Ba-140	2.6425E+00	3.6095E-08	1.5526E+17	9.0448E+17
La-140	3.0695E+00	5.5225E-09	2.3755E+16	7.3864E+17
Ce-141	1.6884E-01	5.9255E-09	2.5308E+16	2.9850E+16
Ce-143	8.4163E-08	1.2674E-16	5.3372E+08	5.2822E+15
Ce-144	2.3774E-01	7.4538E-08	3.1172E+17	2.9947E+16
Pr-143	3.3709E-02	5.0059E-10	2.1081E+15	1.0169E+16
Nd-147	7.4774E-03	9.2429E-11	3.7865E+14	3.0854E+15
Np-239	5.3246E-04	2.2952E-12	5.7832E+12	8.5688E+16

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Pu-238	7.9719E-04	4.6566E-08	1.1783E+17	9.6161E+13
Pu-239	8.1114E-05	1.3050E-06	3.2882E+18	9.7781E+12
Pu-240	1.4160E-04	6.2168E-08	1.5599E+17	1.7108E+13
Pu-241	3.1335E-02	3.1687E-07	7.9179E+17	3.7945E+15
Am-241	2.1910E-05	6.3955E-09	1.5981E+16	2.3653E+12
Cm-242	4.3030E-03	1.2999E-09	3.2348E+15	5.5927E+14
Cm-244	3.2220E-04	3.9364E-09	9.7154E+15	3.9002E+13

RB Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	5.9786E+22	0.0000E+00	
Elemental I (atoms)	2.2974E+15	0.0000E+00	
Organic I (atoms)	2.4588E+17	0.0000E+00	
Aerosols (kg)	1.7114E-04	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.4055E-10
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.4058E-10
Total I (Ci)			1.3266E+01

DW to RB Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8599E+24
Elemental I (atoms)	0.0000E+00	5.4533E+18
Organic I (atoms)	0.0000E+00	8.3282E+19
Aerosols (kg)	0.0000E+00	1.4761E-02

WW to RB Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0338E+24
Elemental I (atoms)	0.0000E+00	4.8037E+17
Organic I (atoms)	0.0000E+00	4.3489E+19
Aerosols (kg)	0.0000E+00	5.6373E-03

Drawdown Release from RB to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8637E+19
Elemental I (atoms)	0.0000E+00	2.0694E+17
Organic I (atoms)	0.0000E+00	1.0383E+16
Aerosols (kg)	0.0000E+00	1.9670E-04

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8204E+24
Elemental I (atoms)	5.0835E+18	5.1349E+16
Organic I (atoms)	1.2018E+20	1.2139E+18
Aerosols (kg)	1.9766E-02	1.9965E-04

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I-131 Summary
#####

	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	5.3565E-04
0.017	1.8470E+05	0.0000E+00	4.8394E-01
0.083	9.2044E+05	0.0000E+00	1.2032E+01
0.333	3.6817E+06	0.0000E+00	1.9249E+02
0.500	6.8012E+05	0.0000E+00	2.6945E+02
0.750	9.4093E+05	0.0000E+00	3.3885E+02
1.000	9.4889E+05	0.0000E+00	4.1268E+02

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1.400	9.5870E+05	0.0000E+00	5.3172E+02
1.700	9.6603E+05	0.0000E+00	6.2170E+02
2.000	9.7334E+05	0.0000E+00	7.1227E+02
2.250	5.9162E+04	4.0983E+04	7.2802E+02
2.400	6.0403E+04	3.7668E+04	7.3051E+02
2.700	6.0349E+04	3.7597E+04	7.3546E+02
3.000	6.0272E+04	3.7549E+04	7.4040E+02
3.300	6.0196E+04	3.7501E+04	7.4532E+02
3.600	6.0119E+04	3.7454E+04	7.5023E+02
3.900	6.0043E+04	3.7406E+04	7.5513E+02
4.200	5.9966E+04	3.7358E+04	7.6001E+02
4.500	5.9890E+04	3.7311E+04	7.6488E+02
4.800	5.9814E+04	3.7263E+04	7.6974E+02
5.100	5.9738E+04	3.7216E+04	7.7459E+02
5.400	5.9662E+04	3.7169E+04	7.7943E+02
5.700	5.9586E+04	3.7121E+04	7.8425E+02
6.000	5.9510E+04	3.7074E+04	7.8906E+02
6.300	5.9434E+04	3.7027E+04	7.9386E+02
6.600	5.9359E+04	3.6980E+04	7.9865E+02
6.900	5.9283E+04	3.6933E+04	8.0342E+02
7.200	5.9208E+04	3.6886E+04	8.0818E+02
7.500	5.9132E+04	3.6839E+04	8.1293E+02
7.800	5.9057E+04	3.6792E+04	8.1767E+02
8.000	5.9007E+04	3.6761E+04	8.2082E+02
8.300	5.8932E+04	3.6714E+04	8.2553E+02
8.600	5.8857E+04	3.6667E+04	8.3024E+02
8.900	5.8782E+04	3.6621E+04	8.3493E+02
9.200	5.8707E+04	3.6574E+04	8.3961E+02
9.500	5.8632E+04	3.6527E+04	8.4428E+02
9.800	5.8558E+04	3.6481E+04	8.4893E+02
10.100	5.8483E+04	3.6434E+04	8.5358E+02
10.400	5.8409E+04	3.6388E+04	8.5821E+02
24.000	5.5126E+04	3.4343E+04	1.0558E+03
96.000	4.1555E+04	2.5888E+04	1.2952E+03
720.000	3.5475E+03	2.2101E+03	5.2888E+02

	RB	Environment	CR
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	3.4387E-02	5.2586E-07	3.6481E-10
0.017	3.1054E+01	1.4277E-02	9.8982E-06
0.083	7.7068E+02	1.7685E+00	3.2799E-04
0.333	1.0617E+03	2.0053E+01	3.5038E-03
0.500	1.1777E+03	3.5732E+01	6.0824E-03
0.750	1.2710E+03	6.0966E+01	9.9714E-03
1.000	1.3699E+03	8.8228E+01	1.3880E-02
1.400	1.5093E+03	8.8869E+01	1.2020E-02
1.700	1.6111E+03	8.9390E+01	1.0792E-02
2.000	1.7106E+03	8.9945E+01	9.6903E-03
2.250	1.7038E+03	9.0422E+01	8.8571E-03
2.400	1.6822E+03	9.0705E+01	8.3920E-03
2.700	1.6399E+03	9.1259E+01	7.5341E-03
3.000	1.5990E+03	9.1800E+01	6.7640E-03
3.300	1.5595E+03	9.2327E+01	6.0729E-03
3.600	1.5213E+03	9.2842E+01	5.4526E-03
3.900	1.4844E+03	9.3344E+01	4.8959E-03
4.200	1.4487E+03	9.3833E+01	4.3963E-03
4.500	1.4142E+03	9.4311E+01	3.9478E-03
4.800	1.3808E+03	9.4778E+01	3.5453E-03
5.100	1.3486E+03	9.5234E+01	3.1840E-03
5.400	1.3174E+03	9.5679E+01	2.8597E-03
5.700	1.2873E+03	9.6114E+01	2.5686E-03
6.000	1.2581E+03	9.6539E+01	2.3074E-03
6.300	1.2300E+03	9.6954E+01	2.0729E-03
6.600	1.2028E+03	9.7360E+01	1.8624E-03
6.900	1.1764E+03	9.7758E+01	1.6734E-03
7.200	1.1510E+03	9.8146E+01	1.5038E-03
7.500	1.1264E+03	9.8527E+01	1.3515E-03
7.800	1.1026E+03	9.8899E+01	1.2149E-03
8.000	1.0872E+03	9.9143E+01	1.1316E-03

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8.300	1.0647E+03	9.9502E+01	1.0162E-03
8.600	1.0429E+03	9.9854E+01	9.1266E-04
8.900	1.0219E+03	1.0020E+02	8.1972E-04
9.200	1.0016E+03	1.0054E+02	7.3630E-04
9.500	9.8192E+02	1.0087E+02	6.6142E-04
9.800	9.6291E+02	1.0119E+02	5.9421E-04
10.100	9.4452E+02	1.0151E+02	5.3388E-04
10.400	9.2674E+02	1.0182E+02	4.7973E-04
24.000	5.1396E+02	1.1198E+02	7.1487E-06
96.000	1.5487E+02	1.2928E+02	7.2124E-07
720.000	1.3214E+01	1.6919E+02	4.5274E-08

#####

Cumulative Dose Summary

#####

Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	9.1664E-04	4.5228E-05	1.2479E-04	6.1570E-06	8.9558E-06	3.8315E-07
0.083	1.1347E-01	5.5753E-03	1.5447E-02	7.5900E-04	1.3129E-03	5.6799E-05
0.333	1.2841E+00	6.2469E-02	1.7482E-01	8.5042E-03	8.4230E-02	3.6405E-03
0.500	2.2853E+00	1.1065E-01	3.1110E-01	1.5064E-02	2.2700E-01	9.8038E-03
0.750	3.8945E+00	1.8896E-01	5.3017E-01	2.5724E-02	5.8530E-01	2.5299E-02
1.000	5.6342E+00	2.7739E-01	7.6701E-01	3.7762E-02	1.1166E+00	4.8518E-02
1.400	5.6444E+00	2.8449E-01	7.7190E-01	4.1170E-02	2.0360E+00	8.9158E-02
1.700	5.6527E+00	2.9347E-01	7.7587E-01	4.5478E-02	2.6413E+00	1.1613E-01
2.000	5.6615E+00	3.0612E-01	7.8010E-01	5.1545E-02	3.1827E+00	1.4047E-01
2.250	5.6691E+00	3.1947E-01	7.8372E-01	5.7952E-02	3.5901E+00	1.5897E-01
2.400	5.6735E+00	3.2852E-01	7.8587E-01	6.2291E-02	3.8170E+00	1.6934E-01
2.700	5.6823E+00	3.4862E-01	7.9007E-01	7.1936E-02	4.2347E+00	1.8859E-01
3.000	5.6908E+00	3.7092E-01	7.9415E-01	8.2634E-02	4.6084E+00	2.0607E-01
3.300	5.6990E+00	3.9496E-01	7.9811E-01	9.4163E-02	4.9429E+00	2.2198E-01
3.600	5.7071E+00	4.2034E-01	8.0197E-01	1.0634E-01	5.2423E+00	2.3651E-01
3.900	5.7149E+00	4.4673E-01	8.0572E-01	1.1900E-01	5.5102E+00	2.4982E-01
4.200	5.7225E+00	4.7385E-01	8.0937E-01	1.3201E-01	5.7501E+00	2.6205E-01
4.500	5.7299E+00	5.0146E-01	8.1292E-01	1.4526E-01	5.9649E+00	2.7331E-01
4.800	5.7371E+00	5.2937E-01	8.1637E-01	1.5864E-01	6.1572E+00	2.8372E-01
5.100	5.7441E+00	5.5740E-01	8.1974E-01	1.7209E-01	6.3294E+00	2.9337E-01
5.400	5.7510E+00	5.8543E-01	8.2301E-01	1.8554E-01	6.4836E+00	3.0233E-01
5.700	5.7576E+00	6.1332E-01	8.2621E-01	1.9892E-01	6.6218E+00	3.1067E-01
6.000	5.7641E+00	6.4100E-01	8.2932E-01	2.1220E-01	6.7456E+00	3.1846E-01
6.300	5.7704E+00	6.6837E-01	8.3235E-01	2.2533E-01	6.8564E+00	3.2574E-01
6.600	5.7766E+00	6.9538E-01	8.3531E-01	2.3829E-01	6.9558E+00	3.3257E-01
6.900	5.7826E+00	7.2198E-01	8.3820E-01	2.5105E-01	7.0448E+00	3.3898E-01
7.200	5.7885E+00	7.4813E-01	8.4101E-01	2.6359E-01	7.1246E+00	3.4501E-01
7.500	5.7942E+00	7.7380E-01	8.4376E-01	2.7591E-01	7.1962E+00	3.5069E-01
7.800	5.7998E+00	7.9897E-01	8.4644E-01	2.8798E-01	7.2604E+00	3.5605E-01
8.000	5.8034E+00	8.1546E-01	8.4820E-01	2.9589E-01	7.2994E+00	3.5946E-01
8.300	5.8088E+00	8.3975E-01	8.4825E-01	2.9633E-01	7.3529E+00	3.6428E-01
8.600	5.8141E+00	8.6351E-01	8.4830E-01	2.9676E-01	7.4008E+00	3.6869E-01
8.900	5.8192E+00	8.8674E-01	8.4834E-01	2.9719E-01	7.4437E+00	3.7273E-01
9.200	5.8242E+00	9.0943E-01	8.4839E-01	2.9760E-01	7.4822E+00	3.7641E-01
9.500	5.8291E+00	9.3160E-01	8.4844E-01	2.9800E-01	7.5167E+00	3.7978E-01
9.800	5.8339E+00	9.5324E-01	8.4848E-01	2.9839E-01	7.5476E+00	3.8286E-01
10.100	5.8386E+00	9.7436E-01	8.4853E-01	2.9878E-01	7.5753E+00	3.8569E-01
10.400	5.8432E+00	9.9498E-01	8.4857E-01	2.9915E-01	7.6001E+00	3.8828E-01
24.000	5.9874E+00	1.6105E+00	8.4992E-01	3.1034E-01	7.8211E+00	4.3299E-01
96.000	6.2048E+00	2.3307E+00	8.5104E-01	3.1594E-01	7.8288E+00	4.4631E-01
720.000	6.6672E+00	3.3423E+00	8.5183E-01	3.1852E-01	7.8352E+00	4.5452E-01

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
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0.0 6.4139E-02 5.6615E+00 3.0612E-01

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Attachment 13.13 – RADTRAD Output File “NMP2ES00.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:47:05
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2ES00.psf
Inventory file  = C:\radtrad3.03\NMP2\nmp2.nif
Release file   = C:\radtrad3.03\NMP2\BWR_I.RFT
Dose Conversion file = C:\radtrad3.03\NMP2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - Post-LOCA ESF Leakage - CAVEX Core Inventory
Nuclide Inventory File:
C:\radtrad3.03\NMP2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
4
Compartment 1:
Pool
3
1.4500E+05
0
0
0
0
0
Compartment 2:
RB
3
1.9400E+06
0
0
0
0
0
0
Compartment 3:
Environment
2
0.0000E+00
0
0
0
0
0
Compartment 4:
CR
1
3.8100E+05
0
0
1
0
0
Pathways:
6
Pathway 1:
CR Filtered Intake
3
```


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```

4
2
Pathway 2:
CR Unfiltered Inleakage
3
4
2
Pathway 3:
CR Exhaust to Environment
4
3
2
Pathway 4:
RB Drawdown Release to Environment
2
3
2
Pathway 5:
RB Exhaust to Environment
2
3
2
Pathway 6:
ESF leakage to RB
1
2
2
End of Plant Model File
Scenario Description Name:

Plant Model Filename:

Source Term:
1
1 1.0000E+00
C:\radtrad3.03\NMP2\nmp2.inp
C:\radtrad3.03\NMP2\BWR_I.RFT
0.0000E+00
1
0.0000E+00 9.7000E-01 3.0000E-02 1.0000E+00
Overlying Pool:
0
0.0000E+00
0
0
0
0
Compartments:
4
Compartment 1:
0
1
0
0
0
0
0
0
0
0
Compartment 2:
1
1
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0

```

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 593
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```

0
Compartment 4:
0
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Pathways:
6
Pathway 1:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 2:
0
0
0
0
0
1
6
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
9.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 3:
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0

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```

1
2
0.0000E+00  2.6700E+03  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.0000E+00  3.6000E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
0
1
2
0.0000E+00  8.2900E+00  0.0000E+00  9.0000E+01  9.0000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
3
1
3
0.0000E+00  1.1900E-04
1.0000E+00  2.9600E-05
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
3
1
6
0.0000E+00  1.6200E-05
1.0000E+00  1.4200E-05
8.0000E+00  5.4100E-07
2.4000E+01  2.3100E-07
9.6000E+01  7.6500E-08
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR

```

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4
0
1
2
0.0000E+00 3.5000E-04
7.2000E+02 3.5000E-04
1
4
0.0000E+00 1.0000E+00
2.4000E+01 6.0000E-01
9.6000E+01 4.0000E-01
7.2000E+02 0.0000E+00
Effective Volume Location:
1
7
0.0000E+00 1.4700E-03
1.0000E+00 8.0300E-05
2.0000E+00 4.4800E-05
8.0000E+00 1.6800E-05
2.4000E+01 1.2000E-05
9.6000E+01 8.8300E-06
7.2000E+02 0.0000E+00
Simulation Parameters:
7
0.0000E+00 1.0000E-02
1.0000E+00 1.0000E-01
2.0000E+00 5.0000E-01
8.0000E+00 1.0000E+00
2.4000E+01 2.0000E+00
9.6000E+01 5.0000E+00
7.2000E+02 0.0000E+00
Output Filename:
C:\radtrad3.o570
1
1
1
0
0
End of Scenario File

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#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:47:05
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#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 4

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: Pool

Compartment volume = 1.4500E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 1

Exit Pathway Number 6: ESF leakage to RB

Compartment number 2

Name: RB

Compartment volume = 1.9400E+06 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 6: ESF leakage to RB

Exit Pathway Number 4: RB Drawdown Release to Environment

Exit Pathway Number 5: RB Exhaust to Environment

Compartment number 3

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 3

Inlet Pathway Number 3: CR Exhaust to Environment

Inlet Pathway Number 4: RB Drawdown Release to Environment

Inlet Pathway Number 5: RB Exhaust to Environment

Exit Pathway Number 1: CR Filtered Intake

Exit Pathway Number 2: CR Unfiltered Inleakage

Compartment number 4

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 4

Inlet Pathway Number 1: CR Filtered Intake

Inlet Pathway Number 2: CR Unfiltered Inleakage

Exit Pathway Number 3: CR Exhaust to Environment

Total number of pathways = 6

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 RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:47:05
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
TELLURIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
STRONTIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
BARIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
RUTHENIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
CERIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00
LANTHANUM	0.0000E+00	0.0000E+00	0.0000E+00	0.000E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

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Iodine fractions

Aerosol = 0.0000E+00
 Elemental = 9.7000E-01
 Organic = 3.0000E-02

COMPARTMENT DATA

Compartment number 1: Pool

Compartment number 2: RB

Compartment number 3: Environment

Compartment number 4: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

PATHWAY DATA

Pathway number 1: CR Filtered Intake

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 2: CR Unfiltered Inleakage

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 3: CR Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: RB Drawdown Release to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.6700E+03	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: RB Exhaust to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E+00	3.6000E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: ESF leakage to RB

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Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.2900E+00	0.0000E+00	9.0000E+01	9.0000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 3

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
1.0000E+00	2.9600E-05
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 3

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
1.0000E+00	1.4200E-05
8.0000E+00	5.4100E-07
2.4000E+01	2.3100E-07
9.6000E+01	7.6500E-08
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
1.0000E+00	8.0300E-05
2.0000E+00	4.4800E-05
8.0000E+00	1.6800E-05
2.4000E+01	1.2000E-05
9.6000E+01	8.8300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	3.5000E-04

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 3/20/2020 at 10:47:05
#####
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#####
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
#####
```

```
#####
Dose, Detailed model and Detailed Inventory Output
#####
```

EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6236E-08	1.5457E-05	5.6519E-07	
Accumulated dose (rem)	7.6236E-08	1.5457E-05	5.6519E-07	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0378E-08	2.1043E-06	7.6941E-08	
Accumulated dose (rem)	1.0378E-08	2.1043E-06	7.6941E-08	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8862E-11	1.5102E-07	4.8260E-09	
Accumulated dose (rem)	4.8862E-11	1.5102E-07	4.8260E-09	

RB Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
I-131	5.2887E-01	4.2660E-09	1.9611E+16	6.9679E+11	
I-132	7.6670E-01	7.4278E-11	3.3887E+14	1.0118E+12	
I-133	1.0961E+00	9.6758E-10	4.3811E+15	1.4443E+12	
I-134	1.2416E+00	4.6542E-11	2.0917E+14	1.6434E+12	
I-135	1.0346E+00	2.9460E-10	1.3142E+15	1.3639E+12	
Xe-133	3.1420E-04	1.6786E-12	7.6006E+12	2.4961E+08	
Xe-133m	2.2093E-05	5.0183E-14	2.2722E+11	1.7552E+07	
Xe-135	3.6104E-03	1.4138E-12	6.3066E+12	2.8610E+09	
Xe-135m	2.2289E-02	2.4484E-13	1.0922E+12	1.7827E+10	

RB Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	1.5227E+13	0.0000E+00	
Elemental I (atoms)	2.5079E+16	0.0000E+00	
Organic I (atoms)	7.7563E+14	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3599E-11	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.7416E-11	
Total I (Ci)		4.6678E+00	

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway
Time (h) =	0.0167
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 4.0503E+09
Organic I (atoms)	0.0000E+00 1.1532E+13
Aerosols (kg)	0.0000E+00 3.5665E+11
	0.0000E+00 0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway
Time (h) =	0.0167
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2427E+13
Elemental I (atoms)	2.2586E+17	2.5096E+16
Organic I (atoms)	6.9855E+15	7.7617E+14
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5000			
Delta dose (rem)	1.8012E-03	4.0805E-01	1.4683E-02
Accumulated dose (rem)	1.8012E-03	4.0806E-01	1.4684E-02

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5000			
Delta dose (rem)	2.4520E-04	5.5549E-02	1.9989E-03
Accumulated dose (rem)	2.4521E-04	5.5551E-02	1.9990E-03

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5000			
Delta dose (rem)	7.8865E-06	2.5300E-02	8.0646E-04
Accumulated dose (rem)	7.8866E-06	2.5300E-02	8.0647E-04

RB Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
I-131	4.6681E+02	3.7654E-06	1.7310E+19	1.0718E+16
I-132	6.1458E+02	5.9540E-08	2.7164E+17	1.4478E+16
I-133	9.5358E+02	8.4179E-07	3.8115E+18	2.1977E+16
I-134	7.4908E+02	2.8080E-08	1.2620E+17	1.9058E+16
I-135	8.6951E+02	2.4759E-07	1.1045E+18	2.0222E+16
Xe-133	9.4394E+00	5.0429E-08	2.2834E+17	1.6303E+14
Xe-133m	6.6252E-01	1.5049E-09	6.8139E+15	1.1447E+13
Xe-135	1.1281E+02	4.4175E-08	1.9706E+17	1.9363E+15
Xe-135m	3.6757E+02	4.0378E-09	1.8012E+16	7.2135E+15

RB Transport Group Inventory:

Time (h) = 0.5000	Atmosphere	Sump
Noble gases (atoms)	4.5022E+17	0.0000E+00
Elemental I (atoms)	2.1945E+19	0.0000E+00
Organic I (atoms)	6.7871E+17	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1925E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.5090E-08
Total I (Ci)		3.6536E+03

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6685E+15
Elemental I (atoms)	0.0000E+00	3.0392E+17
Organic I (atoms)	0.0000E+00	9.3997E+15
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1486E+17
Elemental I (atoms)	2.0099E+20	2.2333E+19
Organic I (atoms)	6.2163E+18	6.9070E+17
Aerosols (kg)	0.0000E+00	0.0000E+00

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EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1939E-02	3.0721E+00	1.0874E-01	
Accumulated dose (rem)	1.3741E-02	3.4801E+00	1.2342E-01	

LPZ Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6253E-03	4.1821E-01	1.4803E-02	
Accumulated dose (rem)	1.8706E-03	4.7376E-01	1.6802E-02	

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0696E-04	3.7635E-01	1.1963E-02	
Accumulated dose (rem)	1.1485E-04	4.0165E-01	1.2770E-02	

RB Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
I-131	2.1485E+03	1.7330E-05	7.9669E+19	9.0614E+16	
I-132	2.6027E+03	2.5214E-07	1.1503E+18	1.1446E+17	
I-133	4.3236E+03	3.8167E-06	1.7282E+19	1.8368E+17	
I-134	2.3258E+03	8.7184E-08	3.9181E+17	1.2016E+17	
I-135	3.8039E+03	1.0832E-06	4.8318E+18	1.6446E+17	
Xe-133	8.0025E+01	4.2753E-07	1.9358E+18	2.6283E+15	
Xe-133m	5.6071E+00	1.2736E-08	5.7668E+16	1.8428E+14	
Xe-135	9.5392E+02	3.7354E-07	1.6663E+18	3.1373E+16	
Xe-135m	1.9251E+03	2.1147E-08	9.4333E+16	7.7223E+16	

RB Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)	3.7541E+18	0.0000E+00	
Elemental I (atoms)	1.0022E+20	0.0000E+00	
Organic I (atoms)	3.0997E+18	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)		5.4541E-08	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.8339E-08	
Total I (Ci)		1.5205E+04	

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway
Time (h) =	1.0000
Noble gases (atoms)	Filtered 0.0000E+00 Transported 7.5537E+16
Elemental I (atoms)	0.0000E+00 2.5888E+18
Organic I (atoms)	0.0000E+00 8.0065E+16
Aerosols (kg)	0.0000E+00 0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway
Time (h) =	1.0000
Noble gases (atoms)	Filtered 0.0000E+00 Transported 0.0000E+00
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway
Time (h) =	1.0000
Noble gases (atoms)	Filtered 0.0000E+00 Transported 3.5162E+18
Elemental I (atoms)	9.3120E+20 1.0347E+20
Organic I (atoms)	2.8800E+19 3.2000E+18
Aerosols (kg)	0.0000E+00 0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1049E-03	9.4378E-02	5.0710E-03	
Accumulated dose (rem)	1.5845E-02	3.5745E+00	1.2849E-01	

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	1.0098E-03	4.5276E-02	2.4327E-03
Accumulated dose (rem)	2.8804E-03	5.1904E-01	1.9234E-02

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3543E-04	1.3682E+00	4.3340E-02	
Accumulated dose (rem)	4.5028E-04	1.7699E+00	5.6109E-02	

RB Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
I-131		9.6801E+03	7.8081E-05	3.5894E+20	8.6968E+17
I-132		9.7737E+03	9.4687E-07	4.3198E+18	9.6557E+17
I-133		1.8905E+04	1.6689E-05	7.5566E+19	1.7231E+18
I-134		4.7687E+03	1.7876E-07	8.0336E+17	6.5418E+17
I-135		1.5484E+04	4.4092E-06	1.9669E+19	1.4614E+18
Xe-133		6.9554E+02	3.7158E-06	1.6825E+19	4.8005E+16
Xe-133m		4.8569E+01	1.1032E-07	4.9952E+17	3.3570E+15
Xe-135		7.9564E+03	3.1156E-06	1.3898E+19	5.5565E+17
Xe-135m		7.9576E+03	8.7415E-08	3.8994E+17	7.7370E+17

RB Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	3.1613E+19	0.0000E+00	
Elemental I (atoms)	4.4552E+20	0.0000E+00	
Organic I (atoms)	1.3779E+19	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.4280E-07	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.9954E-07	
Total I (Ci)		5.8612E+04	

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway
Time (h) =	2.0000
Noble gases (atoms)	Filtered 7.5537E+16
Elemental I (atoms)	Transported 2.5888E+18
Organic I (atoms)	0.0000E+00 8.0065E+16
Aerosols (kg)	0.0000E+00 0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway
Time (h) =	2.0000
Noble gases (atoms)	Filtered 1.6039E+18
Elemental I (atoms)	Transported 2.8180E+17
Organic I (atoms)	8.6282E+17 8.7154E+15
Aerosols (kg)	0.0000E+00 0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway
Time (h) =	2.0000
Noble gases (atoms)	Filtered 3.0718E+19
Elemental I (atoms)	Transported 4.8179E+20
Organic I (atoms)	4.3362E+21 1.4901E+19
Aerosols (kg)	1.3411E+20 0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.8699E-02	3.3580E+00	2.0338E-01	
Accumulated dose (rem)	1.1454E-01	6.9324E+00	3.3188E-01	

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7349E-02	1.6109E+00	9.7569E-02	
Accumulated dose (rem)	5.0229E-02	2.1300E+00	1.1680E-01	

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9977E-03	3.0215E+00	9.7382E-02	
Accumulated dose (rem)	3.4480E-03	4.7913E+00	1.5349E-01	

RB Compartment Nuclide Inventory:

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Time (h) =	8.0000	Ci	kg	Atoms	Decay
I-131		5.2598E+04	4.2426E-04	1.9503E+21	2.8186E+19
I-132		9.6805E+03	9.3784E-07	4.2786E+18	1.2263E+19
I-133		8.5927E+04	7.5853E-05	3.4346E+20	4.9678E+19
I-134		2.3041E+02	8.6370E-09	3.8816E+16	2.3853E+18
I-135		4.5817E+04	1.3046E-05	5.8198E+19	3.2149E+19
Xe-133		2.1807E+04	1.1650E-04	5.2751E+20	7.5790E+18
Xe-133m		1.4814E+03	3.3648E-06	1.5236E+19	5.1958E+17
Xe-135		1.6717E+05	6.5460E-05	2.9201E+20	6.6519E+19
Xe-135m		1.3021E+04	1.4303E-07	6.3805E+17	1.1522E+19

RB Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump	
Noble gases (atoms)		8.3540E+20	0.0000E+00	
Elemental I (atoms)		2.2856E+21	0.0000E+00	
Organic I (atoms)		7.0690E+19	0.0000E+00	
Aerosols (kg)		0.0000E+00	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)			1.2430E-06
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)			1.4514E-06
Total I (Ci)				1.9425E+05

RB Drawdown Release to Environment Transport Group Inventory:

Time (h) =	8.0000	Pathway	
Noble gases (atoms)		Filtered	Transported
Elemental I (atoms)		0.0000E+00	7.5537E+16
Organic I (atoms)		0.0000E+00	2.5888E+18
Aerosols (kg)		0.0000E+00	8.0065E+16
		0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

Time (h) =	8.0000	Pathway	
Noble gases (atoms)		Filtered	Transported
Elemental I (atoms)		0.0000E+00	2.5111E+20
Organic I (atoms)		1.0202E+21	1.0305E+19
Aerosols (kg)		3.1554E+19	3.1872E+17
		0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

Time (h) =	8.0000	Pathway	
Noble gases (atoms)		Filtered	Transported
Elemental I (atoms)		0.0000E+00	1.0790E+21
Organic I (atoms)		3.0957E+22	3.4397E+21
Aerosols (kg)		9.5744E+20	1.0638E+20
		0.0000E+00	0.0000E+00

EAB Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.3200E-01	1.7894E+01	1.2849E+00
Accumulated dose (rem)		8.4655E-01	2.4826E+01	1.6168E+00

LPZ Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3379E-02	1.6820E-01	1.8576E-02
Accumulated dose (rem)		6.3608E-02	2.2981E+00	1.3538E-01

CR Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.8684E-02	1.5488E+00	6.6589E-02
Accumulated dose (rem)		2.2132E-02	6.3402E+00	2.2008E-01

RB Compartment Nuclide Inventory:

Time (h) =	24.0000	Ci	kg	Atoms	Decay
I-131		8.1956E+04	6.6107E-04	3.0390E+21	1.8486E+20
I-132		1.2958E+02	1.2554E-08	5.7274E+16	1.7485E+19
I-133		8.3203E+04	7.3448E-05	3.3257E+20	2.5031E+20
I-134		1.2189E-03	4.5693E-14	2.0535E+11	2.4283E+18
I-135		1.4123E+04	4.0215E-06	1.7939E+19	9.6226E+19
Xe-133		1.0756E+05	5.7461E-04	2.6018E+21	1.5144E+20
Xe-133m		6.7547E+03	1.5343E-05	6.9470E+19	9.8438E+18
Xe-135		2.6702E+05	1.0456E-04	4.6643E+20	6.4552E+20

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Xe-135m 7.0682E+03 7.7644E-08 3.4636E+17 3.0958E+19

RB Transport Group Inventory:

Time (h) =	24.0000	Atmosphere	Sump	
Noble gases (atoms)	3.1380E+21	0.0000E+00		
Elemental I (atoms)	3.2878E+21	0.0000E+00		
Organic I (atoms)	1.0169E+20	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.7514E-06	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.9182E-06	
Total I (Ci)			1.7941E+05	

RB Drawdown Release to Environment Transport Group Inventory:

		Pathway	
Time (h) =	24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16	
Elemental I (atoms)	0.0000E+00	2.5888E+18	
Organic I (atoms)	0.0000E+00	8.0065E+16	
Aerosols (kg)	0.0000E+00	0.0000E+00	

RB Exhaust to Environment Transport Group Inventory:

		Pathway	
Time (h) =	24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0149E+21	
Elemental I (atoms)	6.3723E+21	6.4367E+19	
Organic I (atoms)	1.9708E+20	1.9907E+18	
Aerosols (kg)	0.0000E+00	0.0000E+00	

ESF leakage to RB Transport Group Inventory:

		Pathway	
Time (h) =	24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.6038E+21	
Elemental I (atoms)	9.2357E+22	1.0262E+22	
Organic I (atoms)	2.8564E+21	3.1738E+20	
Aerosols (kg)	0.0000E+00	0.0000E+00	

EAB Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0477E+00	6.7123E+01	3.1015E+00
Accumulated dose (rem)		1.8942E+00	9.1950E+01	4.7183E+00

LPZ Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.1760E-03	3.4423E-01	1.8709E-02
Accumulated dose (rem)		7.1784E-02	2.6424E+00	1.5409E-01

CR Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5297E-02	1.9407E+00	7.4683E-02
Accumulated dose (rem)		3.7429E-02	8.2809E+00	2.9476E-01

RB Compartment Nuclide Inventory:

Time (h) =	96.0000	Ci	kg	Atoms	Decay
I-131		5.3989E+04	4.3548E-04	2.0019E+21	8.4928E+20
I-132		4.1727E-08	4.0425E-18	1.8443E+07	1.7543E+19
I-133		6.4441E+03	5.6886E-06	2.5758E+19	5.4910E+20
I-135		6.3385E+00	1.8049E-09	8.0513E+15	1.1440E+20
Xe-133		1.6065E+05	8.5823E-04	3.8860E+21	1.7454E+21
Xe-133m		6.8043E+03	1.5455E-05	6.9981E+19	9.2789E+19
Xe-135		2.4170E+03	9.4645E-07	4.2220E+18	1.3273E+21
Xe-135m		3.1526E+00	3.4632E-11	1.5449E+14	3.7142E+19

RB Transport Group Inventory:

Time (h) =	96.0000	Atmosphere	Sump	
Noble gases (atoms)	3.9602E+21	0.0000E+00		
Elemental I (atoms)	1.9669E+21	0.0000E+00		
Organic I (atoms)	6.0831E+19	0.0000E+00		
Aerosols (kg)	0.0000E+00	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0023E-06	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0142E-06	
Total I (Ci)			6.0439E+04	

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RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7936E+22
Elemental I (atoms)	2.7199E+22	2.7474E+20
Organic I (atoms)	8.4120E+20	8.4970E+18
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4306E+22
Elemental I (atoms)	2.7837E+23	3.0930E+22
Organic I (atoms)	8.6094E+21	9.5659E+20
Aerosols (kg)	0.0000E+00	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0365E-01	9.5155E+01	3.3014E+00
Accumulated dose (rem)	2.2979E+00	1.8710E+02	8.0197E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0432E-03	1.6161E-01	5.9647E-03
Accumulated dose (rem)	7.2827E-02	2.8040E+00	1.6005E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1099E-03	1.3415E+00	4.3962E-02
Accumulated dose (rem)	4.0539E-02	9.6224E+00	3.3873E-01

RB Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
I-131	6.7487E+02	5.4436E-06	2.5024E+19	1.8588E+21
I-133	7.0576E-07	6.2301E-16	2.8210E+09	5.7241E+20
Xe-133	6.9275E+02	3.7009E-06	1.6758E+19	4.3507E+21
Xe-133m	3.0048E-01	6.8252E-10	3.0904E+15	1.5463E+20

RB Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.6761E+19	0.0000E+00
Elemental I (atoms)	2.4274E+19	0.0000E+00
Organic I (atoms)	7.5073E+17	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2285E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2285E-08
Total I (Ci)		6.7487E+02

RB Drawdown Release to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5537E+16
Elemental I (atoms)	0.0000E+00	2.5888E+18
Organic I (atoms)	0.0000E+00	8.0065E+16
Aerosols (kg)	0.0000E+00	0.0000E+00

RB Exhaust to Environment Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.1376E+22

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Elemental I (atoms)	5.7429E+22	5.8009E+20
Organic I (atoms)	1.7762E+21	1.7941E+19
Aerosols (kg)	0.0000E+00	0.0000E+00

ESF leakage to RB Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.6389E+22
Elemental I (atoms)	5.4472E+23	6.0525E+22
Organic I (atoms)	1.6847E+22	1.8719E+21
Aerosols (kg)	0.0000E+00	0.0000E+00

928

```
#####
                          I-131 Summary
#####
```

	Pool	RB	Environment
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1457E+03	5.8560E-04	8.9550E-09
0.017	1.8472E+05	5.2887E-01	2.4314E-04
0.270	2.9827E+06	1.3713E+02	1.0213E+00
0.500	5.5172E+06	4.6681E+02	6.4503E+00
0.750	1.0104E+07	1.1203E+03	2.2180E+01
1.000	1.4679E+07	2.1485E+03	5.5284E+01
1.400	2.1975E+07	4.5139E+03	5.6734E+01
1.700	2.7428E+07	6.8614E+03	5.8620E+01
2.000	3.2865E+07	9.6801E+03	6.1370E+01
2.300	3.2796E+07	1.2673E+04	6.5105E+01
2.600	3.2727E+07	1.5557E+04	6.9822E+01
2.900	3.2658E+07	1.8337E+04	7.5485E+01
3.200	3.2589E+07	2.1016E+04	8.2059E+01
3.500	3.2520E+07	2.3597E+04	8.9511E+01
3.800	3.2452E+07	2.6083E+04	9.7809E+01
4.100	3.2384E+07	2.8478E+04	1.0692E+02
4.400	3.2315E+07	3.0785E+04	1.1682E+02
4.700	3.2247E+07	3.3007E+04	1.2747E+02
5.000	3.2180E+07	3.5147E+04	1.3886E+02
5.300	3.2112E+07	3.7208E+04	1.5094E+02
5.600	3.2044E+07	3.9192E+04	1.6370E+02
5.900	3.1977E+07	4.1101E+04	1.7711E+02
6.200	3.1910E+07	4.2940E+04	1.9115E+02
6.500	3.1842E+07	4.4709E+04	2.0578E+02
6.800	3.1775E+07	4.6411E+04	2.2100E+02
7.100	3.1708E+07	4.8049E+04	2.3677E+02
7.400	3.1642E+07	4.9625E+04	2.5309E+02
7.700	3.1575E+07	5.1140E+04	2.6991E+02
8.000	3.1509E+07	5.2598E+04	2.8724E+02
8.300	3.1442E+07	5.3999E+04	3.0504E+02
8.600	3.1376E+07	5.5346E+04	3.2330E+02
8.900	3.1310E+07	5.6641E+04	3.4200E+02
9.200	3.1244E+07	5.7885E+04	3.6112E+02
9.500	3.1179E+07	5.9080E+04	3.8066E+02
9.800	3.1113E+07	6.0229E+04	4.0058E+02
10.100	3.1047E+07	6.1331E+04	4.2088E+02
10.400	3.0982E+07	6.2390E+04	4.4154E+02
24.000	2.8160E+07	8.1956E+04	1.5857E+03
96.000	1.6984E+07	5.3989E+04	7.1352E+03
720.000	2.1230E+05	6.7487E+02	1.5573E+04

	CR
Time (hr)	I-131 (Curies)
0.000	6.2125E-12
0.017	1.6857E-07
0.270	1.8235E-04
0.500	1.1278E-03
0.750	3.7980E-03
1.000	9.2852E-03
1.400	8.0509E-03
1.700	7.2429E-03
2.000	6.5260E-03
2.300	5.8763E-03
2.600	5.2984E-03
2.900	4.7848E-03
3.200	4.3287E-03
3.500	3.9241E-03

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3.800 3.5654E-03
 4.100 3.2478E-03
 4.400 2.9669E-03
 4.700 2.7188E-03
 5.000 2.5001E-03
 5.300 2.3075E-03
 5.600 2.1382E-03
 5.900 1.9897E-03
 6.200 1.8597E-03
 6.500 1.7462E-03
 6.800 1.6475E-03
 7.100 1.5618E-03
 7.400 1.4878E-03
 7.700 1.4240E-03
 8.000 1.3695E-03
 8.300 1.2642E-03
 8.600 1.1707E-03
 8.900 1.0877E-03
 9.200 1.0140E-03
 9.500 9.4864E-04
 9.800 8.9078E-04
 10.100 8.3961E-04
 10.400 7.9440E-04
 24.000 5.2066E-04
 96.000 2.5356E-04
 720.000 2.3323E-06

 Cumulative Dose Summary
 #####

Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.5457E-05	5.6519E-07	2.1043E-06	7.6941E-08	1.5102E-07	4.8260E-09
0.270	6.4760E-02	2.3476E-03	8.8161E-03	3.1959E-04	2.2085E-03	7.0487E-05
0.500	4.0806E-01	1.4684E-02	5.5551E-02	1.9990E-03	2.5300E-02	8.0647E-04
0.750	1.3997E+00	4.9986E-02	1.9054E-01	6.8048E-03	1.2593E-01	4.0088E-03
1.000	3.4801E+00	1.2342E-01	4.7376E-01	1.6802E-02	4.0165E-01	1.2770E-02
1.400	3.5027E+00	1.2461E-01	4.8460E-01	1.7375E-02	1.0096E+00	3.2054E-02
1.700	3.5320E+00	1.2619E-01	4.9864E-01	1.8129E-02	1.4104E+00	4.4741E-02
2.000	3.5745E+00	1.2849E-01	5.1904E-01	1.9234E-02	1.7699E+00	5.6109E-02
2.300	3.6321E+00	1.3163E-01	5.4665E-01	2.0741E-02	2.0925E+00	6.6304E-02
2.600	3.7045E+00	1.3561E-01	5.8140E-01	2.2650E-02	2.3823E+00	7.5451E-02
2.900	3.7912E+00	1.4040E-01	6.2298E-01	2.4947E-02	2.6428E+00	8.3676E-02
3.200	3.8914E+00	1.4597E-01	6.7108E-01	2.7619E-02	2.8775E+00	9.1087E-02
3.500	4.0047E+00	1.5230E-01	7.2544E-01	3.0657E-02	3.0893E+00	9.7782E-02
3.800	4.1305E+00	1.5939E-01	7.8576E-01	3.4057E-02	3.2810E+00	1.0385E-01
4.100	4.2681E+00	1.6722E-01	8.5180E-01	3.7815E-02	3.4548E+00	1.0936E-01
4.400	4.4172E+00	1.7579E-01	9.2331E-01	4.1926E-02	3.6128E+00	1.1438E-01
4.700	4.5772E+00	1.8509E-01	1.0000E+00	4.6386E-02	3.7570E+00	1.1898E-01
5.000	4.7475E+00	1.9511E-01	1.0818E+00	5.1192E-02	3.8889E+00	1.2321E-01
5.300	4.9279E+00	2.0583E-01	1.1683E+00	5.6337E-02	4.0101E+00	1.2712E-01
5.600	5.1177E+00	2.1725E-01	1.2594E+00	6.1816E-02	4.1218E+00	1.3075E-01
5.900	5.3167E+00	2.2936E-01	1.3548E+00	6.7623E-02	4.2253E+00	1.3414E-01
6.200	5.5244E+00	2.4213E-01	1.4545E+00	7.3750E-02	4.3215E+00	1.3732E-01
6.500	5.7404E+00	2.5555E-01	1.5581E+00	8.0190E-02	4.4114E+00	1.4032E-01
6.800	5.9643E+00	2.6962E-01	1.6655E+00	8.6936E-02	4.4958E+00	1.4317E-01
7.100	6.1958E+00	2.8430E-01	1.7766E+00	9.3979E-02	4.5753E+00	1.4590E-01
7.400	6.4345E+00	2.9958E-01	1.8911E+00	1.0131E-01	4.6508E+00	1.4851E-01
7.700	6.6802E+00	3.1544E-01	2.0089E+00	1.0892E-01	4.7226E+00	1.5104E-01
8.000	6.9324E+00	3.3188E-01	2.1300E+00	1.1680E-01	4.7913E+00	1.5349E-01
8.300	7.1910E+00	3.4885E-01	2.1324E+00	1.1704E-01	4.8560E+00	1.5582E-01
8.600	7.4555E+00	3.6635E-01	2.1349E+00	1.1729E-01	4.9156E+00	1.5799E-01
8.900	7.7258E+00	3.8436E-01	2.1374E+00	1.1754E-01	4.9707E+00	1.6000E-01
9.200	8.0015E+00	4.0286E-01	2.1400E+00	1.1781E-01	5.0219E+00	1.6189E-01
9.500	8.2824E+00	4.2182E-01	2.1426E+00	1.1808E-01	5.0696E+00	1.6366E-01
9.800	8.5683E+00	4.4123E-01	2.1453E+00	1.1835E-01	5.1142E+00	1.6534E-01
10.100	8.8589E+00	4.6107E-01	2.1481E+00	1.1863E-01	5.1560E+00	1.6693E-01
10.400	9.1539E+00	4.8132E-01	2.1508E+00	1.1892E-01	5.1955E+00	1.6844E-01
24.000	2.4826E+01	1.6168E+00	2.2981E+00	1.3538E-01	6.3402E+00	2.2008E-01
96.000	9.1950E+01	4.7183E+00	2.6424E+00	1.5409E-01	8.2809E+00	2.9476E-01
720.000	1.8710E+02	8.0197E+00	2.8040E+00	1.6005E-01	9.6224E+00	3.3873E-01

 Worst Two-Hour Doses
 #####

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EAB			
Time	Whole Body	Thyroid	TEDE
(hr)	(rem)	(rem)	(rem)
10.4	9.5810E-02	2.3048E+00	1.6698E-01

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Attachment 13.14 - RADTRAD Nuclide Inventory File “nmp2.nif”

Nuclide Inventory Name:

NMP2 149 MTU Core CAVEX Window NF184178 (41 GWD/MTU Max)

Power Level:

1.0000E+00

Nuclides:

63

Nuclide 001:

Kr-83m

1

6.6960000000E+03

8.3000E+01

4.0500E+03

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 002:

Kr-85m

1

1.6128000000E+04

8.5000E+01

9.1200E+03

Kr-85 2.1000E-01

none 0.0000E+00

none 0.0000E+00

Nuclide 003:

Kr-85

1

3.3861304800E+08

8.5000E+01

4.6100E+02

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 004:

Kr-87

1

4.5780000000E+03

8.7000E+01

1.8400E+04

Rb-87 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 005:

Kr-88

1

1.0224000000E+04

8.8000E+01

2.5000E+04

Rb-88 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 006:

Rb-86

3

1.6122240000E+06

8.6000E+01

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6.2600E+01
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 007:
 Rb-88
 3
 1.0620000000E+03
 8.8000E+01
 2.5200E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 008:
 Sr-89
 5
 4.3632000000E+06
 8.9000E+01
 3.4400E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 009:
 Sr-90
 5
 9.1895731200E+08
 9.0000E+01
 3.6800E+03
 Y-90 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 010:
 Sr-91
 5
 3.4200000000E+04
 9.1000E+01
 4.2400E+04
 Y-91m 5.8000E-01
 Y-91 4.2000E-01
 none 0.0000E+00
 Nuclide 011:
 Sr-92
 5
 9.7560000000E+03
 9.2000E+01
 4.3900E+04
 Y-92 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 012:
 Y-90
 9
 2.3040000000E+05
 9.0000E+01
 3.8100E+03
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 013:

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Y-91

9

5.0552640000E+06

9.1000E+01

4.3100E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 014:

Y-92

9

1.2744000000E+04

9.2000E+01

4.4400E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 015:

Y-93

9

3.6360000000E+04

9.3000E+01

4.8100E+04

Zr-93 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 016:

Zr-95

9

5.5278720000E+06

9.5000E+01

5.0900E+04

Nb-95m 7.0000E-03

Nb-95 9.9000E-01

none 0.0000E+00

Nuclide 017:

Zr-97

9

6.0840000000E+04

9.7000E+01

4.9100E+04

Nb-97m 9.5000E-01

Nb-97 5.3000E-02

none 0.0000E+00

Nuclide 018:

Nb-95

9

3.0369600000E+06

9.5000E+01

5.0200E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 019:

Mo-99

7

2.3760000000E+05

9.9000E+01

5.1400E+04

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Tc-99m 8.8000E-01
 Tc-99 1.2000E-01
 none 0.0000E+00
 Nuclide 020:
 Tc-99m
 7
 2.1672000000E+04
 9.9000E+01
 4.5300E+04
 Tc-99 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 021:
 Ru-103
 7
 3.3937920000E+06
 1.0300E+02
 4.4500E+04
 Rh-103m 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 022:
 Ru-105
 7
 1.5984000000E+04
 1.0500E+02
 3.1700E+04
 Rh-105 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 023:
 Ru-106
 7
 3.1812480000E+07
 1.0600E+02
 1.8500E+04
 Rh-106 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 024:
 Rh-105
 7
 1.2729600000E+05
 1.0500E+02
 2.9500E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 025:
 Sb-127
 4
 3.3264000000E+05
 1.2700E+02
 2.5600E+03
 Te-127m 1.8000E-01
 Te-127 8.2000E-01
 none 0.0000E+00
 Nuclide 026:
 Sb-129

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4
 1.5552000000E+04
 1.2900E+02
 7.9100E+03
 Te-129m 2.2000E-01
 Te-129 7.7000E-01
 none 0.0000E+00
 Nuclide 027:
 Te-127
 4
 3.3660000000E+04
 1.2700E+02
 2.5300E+03
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 028:
 Te-127m
 4
 9.4176000000E+06
 1.2700E+02
 4.3300E+02
 Te-127 9.8000E-01
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 029:
 Te-129
 4
 4.1760000000E+03
 1.2900E+02
 7.4100E+03
 I-129 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 030:
 Te-129m
 4
 2.9030400000E+06
 1.2900E+02
 1.4200E+03
 Te-129 6.5000E-01
 I-129 3.5000E-01
 none 0.0000E+00
 Nuclide 031:
 Te-131m
 4
 1.0800000000E+05
 1.3100E+02
 5.3800E+03
 Te-131 2.2000E-01
 I-131 7.8000E-01
 none 0.0000E+00
 Nuclide 032:
 Te-132
 4
 2.8152000000E+05
 1.3200E+02
 3.8600E+04
 I-132 1.0000E+00

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none 0.0000E+00
 none 0.0000E+00
 Nuclide 033:
 I-131
 2
 6.9465600000E+05
 1.3100E+02
 2.7200E+04
 Xe-131m 1.1000E-02
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 034:
 I-132
 2
 8.2800000000E+03
 1.3200E+02
 3.9600E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 035:
 I-133
 2
 7.4880000000E+04
 1.3300E+02
 5.6400E+04
 Xe-133m 2.9000E-02
 Xe-133 9.7000E-01
 none 0.0000E+00
 Nuclide 036:
 I-134
 2
 3.1560000000E+03
 1.3400E+02
 6.4700E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 037:
 I-135
 2
 2.3796000000E+04
 1.3500E+02
 5.3300E+04
 Xe-135m 1.5000E-01
 Xe-135 8.5000E-01
 none 0.0000E+00
 Nuclide 038:
 Xe-133
 1
 4.5316800000E+05
 1.3300E+02
 5.6400E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 039:
 Xe-133m
 1

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1.92672000000E+05
 1.3300E+02
 1.7300E+03
 Xe-133 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 040:
 Xe-135
 1
 3.27240000000E+04
 1.3500E+02
 2.3700E+04
 Cs-135 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 041:
 Xe-135m
 1
 9.18000000000E+02
 1.3500E+02
 1.1700E+04
 Xe-135 9.9400E-01
 Cs-135 6.0000E-04
 none 0.0000E+00
 Nuclide 042:
 Xe-138
 1
 8.52000000000E+02
 1.3800E+02
 5.0600E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 043:
 Cs-134
 3
 6.5071771200E+07
 1.3400E+02
 6.2600E+03
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 044:
 Cs-136
 3
 1.13184000000E+06
 1.3600E+02
 1.9100E+03
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 045:
 Cs-137
 3
 9.46728000000E+08
 1.3700E+02
 4.8600E+03
 Ba-137m 9.5000E-01
 none 0.0000E+00

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none 0.0000E+00

Nuclide 046:

Ba-139

6

4.9620000000E+03

1.3900E+02

5.2000E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 047:

Ba-140

6

1.1007360000E+06

1.4000E+02

5.0600E+04

La-140 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 048:

La-140

9

1.4497920000E+05

1.4000E+02

5.1100E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 049:

La-141

9

1.4148000000E+04

1.4100E+02

4.7500E+04

Ce-141 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 050:

La-142

9

5.5500000000E+03

1.4200E+02

4.6600E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 051:

Ce-141

8

2.8080864000E+06

1.4100E+02

4.7800E+04

none 0.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 052:

Ce-143

8

1.1880000000E+05

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1.4300E+02
 4.6600E+04
 Pr-143 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 053:
 Ce-144
 8
 2.4563520000E+07
 1.4400E+02
 3.8300E+04
 Pr-144m 1.8000E-02
 Pr-144 9.8000E-01
 none 0.0000E+00
 Nuclide 054:
 Pr-143
 9
 1.1715840000E+06
 1.4300E+02
 4.5600E+04
 none 0.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 055:
 Nd-147
 9
 9.4867200000E+05
 1.4700E+02
 1.8600E+04
 Pm-147 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 056:
 Np-239
 8
 2.0347200000E+05
 2.3900E+02
 5.4500E+05
 Pu-239 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 057:
 Pu-238
 8
 2.7688638240E+09
 2.3800E+02
 1.1900E+02
 U-234 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00
 Nuclide 058:
 Pu-239
 8
 7.5943364400E+11
 2.3900E+02
 1.2000E+01
 U-235 1.0000E+00
 none 0.0000E+00
 none 0.0000E+00

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Nuclide 059:

Pu-240

8

2.0638670000E+10

2.4000E+02

2.1200E+01

U-236 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 060:

Pu-241

8

4.7336400000E+08

2.4100E+02

4.7100E+03

Am-241 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 061:

Am-241

9

1.3664441000E+10

2.4100E+02

6.6600E+00

Np-237 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 062:

Cm-242

9

1.4083200000E+07

2.4200E+02

1.8300E+03

Pu-238 1.0000E+00

none 0.0000E+00

none 0.0000E+00

Nuclide 063:

Cm-244

9

5.6488104000E+08

2.4400E+02

1.2100E+02

Pu-240 1.0000E+00

none 0.0000E+00

none 0.0000E+00

End of Nuclear Inventory File

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Attachment 13.15 - RADTRAD Release Fraction and Timing Files**“bwr_dba.rft”**

Release Fraction and Timing Name:
 BWR, RG 1.183, Table 1 Section 3.2
 Duration (h): Design Basis Accident
 0.5000E+00 0.1500E+01 0.0000E+00 0.0000E+00
 Noble Gases:
 0.5000E-01 0.9500E+00 0.0000E+00 0.0000E+00
 Iodine:
 0.5000E-01 0.2500E+00 0.0000E+00 0.0000E+00
 Cesium:
 0.5000E-01 0.2000E+00 0.0000E+00 0.0000E+00
 Tellurium:
 0.0000E+00 0.0500E+00 0.0000E+00 0.0000E+00
 Strontium:
 0.0000E+00 0.2000E-01 0.0000E+00 0.0000E+00
 Barium:
 0.0000E+00 0.2000E-01 0.0000E+00 0.0000E+00
 Ruthenium:
 0.0000E+00 0.2500E-02 0.0000E+00 0.0000E+00
 Cerium:
 0.0000E+00 0.5000E-03 0.0000E+00 0.0000E+00
 Lanthanum:
 0.0000E+00 0.2000E-03 0.0000E+00 0.0000E+00
 Non-Radioactive Aerosols (kg):
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 End of Release File

BWR_I.RFT

Release Fraction and Timing Name: Iodine only
 NUREG 1465 BWR
 Duration (h):
 0.5000E+00 1.5000E+00 0.0000E+00 0.0000E+00
 Noble Gases:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Iodine:
 0.0500E+00 0.2500E+00 0.0000E+00 0.0000E+00
 Cesium:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Tellurium:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Strontium:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Barium:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Ruthenium:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Cerium:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Lanthanum:
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 Non-Radioactive Aerosols (kg):
 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 End of Release File

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Attachment 13.16 - RADTRAD Dose Conversion Factor File “nmp2.inp”

FGRDCF 10/24/95 03:24:50 beta-test version 1.10, minor FORTRAN fixes 5/4/95
 Implicit daughter halflives (m) less than 90 and less than 0.100 of parent

9 ORGANS DEFINED IN THIS FILE:

GONADS
 BREAST
 LUNGS
 RED MARR
 BONE SUR
 THYROID
 REMAINDER
 EFFECTIVE
 SKIN (FGR)

63 NUCLIDES DEFINED IN THIS FILE:

Kr-83m	
Kr-85m	
Kr-85	
Kr-87	
Kr-88	
Rb-86	D
Rb-88	D
Sr-89	Y
Sr-90	Y
Sr-91	Y Including:Y-91m
Sr-92	Y
Y-90	Y
Y-91	Y
Y-92	Y
Y-93	Y
Zr-95	D
Zr-97	Y Including:Nb-97m , Including:Nb-97
Nb-95	Y
Mo-99	Y
Tc-99m	D
Ru-103	Y Including:Rh-103m
Ru-105	Y
Ru-106	Y Including:Rh-106
Rh-105	Y
Sb-127	W
Sb-129	W
Te-127	W
Te-127m	W
Te-129	W
Te-129m	W Including:Te-129
Te-131m	W Including:Te-131
Te-132	W
I-131	D
I-132	D
I-133	D
I-134	D
I-135	D Including:Xe-135m
Xe-133	
Xe-133m	
Xe-135	
Xe-135m	
Xe-138	
Cs-134	D
Cs-136	D
Cs-137	D Including:Ba-137m
Ba-139	D
Ba-140	D
La-140	W
La-141	D
La-142	D
Ce-141	Y
Ce-143	Y
Ce-144	Y Including:Pr-144m, Including:Pr-144

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Pr-143 Y
Nd-147 Y
Np-239 W
Pu-238 Y
Pu-239 Y
Pu-240
Pu-241
Am-241
Cm-242
Cm-244

CLOUDSHINE	GROUND	GROUND	GROUND	INHALED	INHALED	INGESTION
SHINE 8HR	SHINE 7DAY	SHINE RATE	ACUTE	CHRONIC		
Kr-83m						
GONADS	1.710E-18	5.572E-15	5.855E-15	6.160E-19-1.000E+00	0.000E+00	0.000E+00
BREAST	5.050E-18	9.498E-15	9.980E-15	1.050E-18-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.640E-19	1.266E-16	1.331E-16	1.400E-20-1.000E+00	0.000E+00	0.000E+00
RED MARR	3.830E-19	5.617E-16	5.902E-16	6.210E-20-1.000E+00	0.000E+00	0.000E+00
BONE SUR	2.250E-18	3.437E-15	3.612E-15	3.800E-19-1.000E+00	0.000E+00	0.000E+00
THYROID	6.430E-19	7.698E-16	8.088E-16	8.510E-20-1.000E+00	0.000E+00	0.000E+00
REMAINDER	5.300E-19	1.393E-15	1.464E-15	1.540E-19-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.500E-18	3.437E-15	3.612E-15	3.800E-19-1.000E+00	0.000E+00	0.000E+00
SKIN (FGR)	3.560E-17	1.167E-13	1.226E-13	1.290E-17-1.000E+00	0.000E+00	0.000E+00
Kr-85m						
GONADS	7.310E-15	2.594E-12	3.653E-12	1.570E-16-1.000E+00	0.000E+00	0.000E+00
BREAST	8.410E-15	2.527E-12	3.560E-12	1.530E-16-1.000E+00	0.000E+00	0.000E+00
LUNGS	7.040E-15	2.379E-12	3.351E-12	1.440E-16-1.000E+00	0.000E+00	0.000E+00
RED MARR	6.430E-15	2.346E-12	3.304E-12	1.420E-16-1.000E+00	0.000E+00	0.000E+00
BONE SUR	1.880E-14	5.286E-12	7.446E-12	3.200E-16-1.000E+00	0.000E+00	0.000E+00
THYROID	7.330E-15	2.395E-12	3.374E-12	1.450E-16-1.000E+00	0.000E+00	0.000E+00
REMAINDER	6.640E-15	2.313E-12	3.257E-12	1.400E-16-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	7.480E-15	2.511E-12	3.537E-12	1.520E-16-1.000E+00	0.000E+00	0.000E+00
SKIN (FGR)	2.240E-14	2.247E-11	3.164E-11	1.360E-15-1.000E+00	0.000E+00	0.000E+00
Kr-85						
GONADS	1.170E-16	8.121E-14	1.704E-12	2.820E-18-1.000E+00	0.000E+00	0.000E+00
BREAST	1.340E-16	7.891E-14	1.656E-12	2.740E-18-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.140E-16	7.056E-14	1.481E-12	2.450E-18-1.000E+00	0.000E+00	0.000E+00
RED MARR	1.090E-16	6.998E-14	1.469E-12	2.430E-18-1.000E+00	0.000E+00	0.000E+00
BONE SUR	2.200E-16	1.287E-13	2.702E-12	4.470E-18-1.000E+00	0.000E+00	0.000E+00
THYROID	1.180E-16	7.459E-14	1.565E-12	2.590E-18-1.000E+00	0.000E+00	0.000E+00
REMAINDER	1.090E-16	6.941E-14	1.457E-12	2.410E-18-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.190E-16	7.603E-14	1.596E-12	2.640E-18-1.000E+00	0.000E+00	0.000E+00
SKIN (FGR)	1.320E-14	2.304E-11	4.835E-10	8.000E-16-1.000E+00	0.000E+00	0.000E+00
Kr-87						
GONADS	4.000E-14	4.962E-12	5.026E-12	7.610E-16-1.000E+00	0.000E+00	0.000E+00
BREAST	4.500E-14	4.740E-12	4.802E-12	7.270E-16-1.000E+00	0.000E+00	0.000E+00
LUNGS	4.040E-14	4.603E-12	4.663E-12	7.060E-16-1.000E+00	0.000E+00	0.000E+00
RED MARR	4.000E-14	4.708E-12	4.769E-12	7.220E-16-1.000E+00	0.000E+00	0.000E+00
BONE SUR	6.020E-14	6.514E-12	6.598E-12	9.990E-16-1.000E+00	0.000E+00	0.000E+00
THYROID	4.130E-14	4.473E-12	4.531E-12	6.860E-16-1.000E+00	0.000E+00	0.000E+00
REMAINDER	3.910E-14	4.590E-12	4.650E-12	7.040E-16-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	4.120E-14	4.773E-12	4.835E-12	7.320E-16-1.000E+00	0.000E+00	0.000E+00
SKIN (FGR)	1.370E-13	8.802E-11	8.916E-11	1.350E-14-1.000E+00	0.000E+00	0.000E+00
Kr-88						
GONADS	9.900E-14	2.278E-11	2.655E-11	1.800E-15-1.000E+00	0.000E+00	0.000E+00
BREAST	1.110E-13	2.177E-11	2.537E-11	1.720E-15-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.010E-13	2.139E-11	2.493E-11	1.690E-15-1.000E+00	0.000E+00	0.000E+00
RED MARR	1.000E-13	2.190E-11	2.552E-11	1.730E-15-1.000E+00	0.000E+00	0.000E+00
BONE SUR	1.390E-13	2.886E-11	3.363E-11	2.280E-15-1.000E+00	0.000E+00	0.000E+00
THYROID	1.030E-13	2.012E-11	2.345E-11	1.590E-15-1.000E+00	0.000E+00	0.000E+00
REMAINDER	9.790E-14	2.139E-11	2.493E-11	1.690E-15-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.020E-13	2.202E-11	2.567E-11	1.740E-15-1.000E+00	0.000E+00	0.000E+00
SKIN (FGR)	1.350E-13	5.607E-11	6.534E-11	4.430E-15-1.000E+00	0.000E+00	0.000E+00
Rb-86						
GONADS	4.710E-15	2.788E-12	5.187E-11	9.740E-17-1.000E+00	1.340E-09	2.150E-09
BREAST	5.340E-15	2.662E-12	4.953E-11	9.300E-17-1.000E+00	1.330E-09	2.140E-09
LUNGS	4.710E-15	2.553E-12	4.750E-11	8.920E-17-1.000E+00	3.300E-09	2.140E-09
RED MARR	4.640E-15	2.619E-12	4.873E-11	9.150E-17-1.000E+00	2.320E-09	3.720E-09
BONE SUR	7.050E-15	3.635E-12	6.764E-11	1.270E-16-1.000E+00	4.270E-09	6.860E-09
THYROID	4.840E-15	2.599E-12	4.836E-11	9.080E-17-1.000E+00	1.330E-09	2.140E-09

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REMAINDER	4.520E-15	2.542E-12	4.729E-11	8.880E-17-1.000E+00	1.380E-09	2.330E-09	
EFFECTIVE	4.810E-15	2.665E-12	4.958E-11	9.310E-17-1.000E+00	1.790E-09	2.530E-09	
SKIN(FGR)	4.850E-14	2.210E-10	4.111E-09	7.720E-15-1.000E+00	0.000E+00	0.000E+00	
Rb-88							
GONADS	3.260E-14	2.788E-12	5.187E-11	9.740E-17-1.000E+00	1.310E-12	2.150E-09	
BREAST	3.670E-14	2.662E-12	4.953E-11	9.300E-17-1.000E+00	1.430E-12	2.140E-09	
LUNGS	3.310E-14	2.553E-12	4.750E-11	8.920E-17-1.000E+00	1.470E-10	2.140E-09	
RED MARR	3.300E-14	2.619E-12	4.873E-11	9.150E-17-1.000E+00	1.450E-12	3.720E-09	
BONE SUR	4.620E-14	3.635E-12	6.764E-11	1.270E-16-1.000E+00	1.470E-12	6.860E-09	
THYROID	3.370E-14	2.599E-12	4.836E-11	9.080E-17-1.000E+00	1.370E-12	2.140E-09	
REMAINDER	3.210E-14	2.542E-12	4.729E-11	8.880E-17-1.000E+00	1.380E-11	2.330E-09	
EFFECTIVE	3.360E-14	2.665E-12	4.958E-11	9.310E-17-1.000E+00	2.260E-11	2.530E-09	
SKIN(FGR)	1.830E-13	2.210E-10	4.111E-09	7.720E-15-1.000E+00	0.000E+00	0.000E+00	
Sr-89							
GONADS	7.730E-17	7.155E-14	1.436E-12	2.490E-18-1.000E+00	7.950E-12	8.050E-12	
BREAST	9.080E-17	7.212E-14	1.447E-12	2.510E-18-1.000E+00	7.960E-12	7.980E-12	
LUNGS	7.080E-17	5.689E-14	1.142E-12	1.980E-18-1.000E+00	8.350E-08	7.970E-12	
RED MARR	6.390E-17	5.345E-14	1.073E-12	1.860E-18-1.000E+00	1.070E-10	1.080E-10	
BONE SUR	1.940E-16	1.560E-13	3.131E-12	5.430E-18-1.000E+00	1.590E-10	1.610E-10	
THYROID	7.600E-17	6.063E-14	1.217E-12	2.110E-18-1.000E+00	7.960E-12	7.970E-12	
REMAINDER	6.710E-17	5.603E-14	1.124E-12	1.950E-18-1.000E+00	3.970E-09	8.250E-09	
EFFECTIVE	7.730E-17	6.523E-14	1.309E-12	2.270E-18-1.000E+00	1.760E-09	2.500E-09	
SKIN(FGR)	3.690E-14	1.914E-10	3.841E-09	6.660E-15-1.000E+00	0.000E+00	0.000E+00	
Sr-90							
GONADS	7.780E-18	9.590E-15	2.014E-13	3.330E-19-1.000E+00	2.690E-10	5.040E-11	
BREAST	9.490E-18	1.008E-14	2.116E-13	3.500E-19-1.000E+00	2.690E-10	5.040E-11	
LUNGS	6.440E-18	6.307E-15	1.324E-13	2.190E-19-1.000E+00	2.860E-06	5.040E-11	
RED MARR	5.440E-18	5.558E-15	1.167E-13	1.930E-19-1.000E+00	3.280E-08	6.450E-09	
BONE SUR	2.280E-17	2.393E-14	5.025E-13	8.310E-19-1.000E+00	7.090E-08	1.390E-08	
THYROID	7.330E-18	7.171E-15	1.506E-13	2.490E-19-1.000E+00	2.690E-10	5.040E-11	
REMAINDER	6.110E-18	6.422E-15	1.348E-13	2.230E-19-1.000E+00	5.730E-09	6.700E-09	
EFFECTIVE	7.530E-18	8.179E-15	1.717E-13	2.840E-19-1.000E+00	6.470E-08	3.230E-09	
SKIN(FGR)	9.200E-15	4.032E-12	8.465E-11	1.400E-16-1.000E+00	0.000E+00	0.000E+00	
Sr-91							
GONADS	3.380E-14	2.155E-11	5.062E-11	1.026E-15-1.000E+00	5.650E-11	2.520E-10	
BREAST	3.830E-14	2.059E-11	4.838E-11	9.806E-16-1.000E+00	1.740E-11	3.676E-11	
LUNGS	3.370E-14	1.970E-11	4.626E-11	9.376E-16-1.000E+00	2.130E-09	1.055E-11	
RED MARR	3.310E-14	2.011E-11	4.722E-11	9.570E-16-1.000E+00	2.230E-11	5.659E-11	
BONE SUR	5.200E-14	2.852E-11	6.709E-11	1.360E-15-1.000E+00	1.270E-11	2.070E-11	
THYROID	3.470E-14	2.035E-11	4.782E-11	9.693E-16-1.000E+00	9.640E-12	1.968E-12	
REMAINDER	3.240E-14	1.948E-11	4.573E-11	9.268E-16-1.000E+00	5.780E-10	2.557E-09	
EFFECTIVE	4.929E-14	2.057E-11	4.832E-11	9.793E-16-1.000E+00	2.577E-10	8.455E-10	
SKIN(FGR)	8.140E-14	1.748E-10	3.987E-10	8.080E-15-1.000E+00	0.000E+00	0.000E+00	
Sr-92							
GONADS	6.610E-14	1.593E-11	1.830E-11	1.300E-15-1.000E+00	1.020E-11	8.180E-11	
BREAST	7.480E-14	1.520E-11	1.745E-11	1.240E-15-1.000E+00	6.490E-12	1.700E-11	
LUNGS	6.670E-14	1.483E-11	1.703E-11	1.210E-15-1.000E+00	1.050E-09	7.220E-12	
RED MARR	6.620E-14	1.520E-11	1.745E-11	1.240E-15-1.000E+00	6.980E-12	2.290E-11	
BONE SUR	9.490E-14	2.010E-11	2.308E-11	1.640E-15-1.000E+00	4.360E-12	8.490E-12	
THYROID	6.820E-14	1.446E-11	1.661E-11	1.180E-15-1.000E+00	3.920E-12	1.300E-12	
REMAINDER	6.450E-14	1.471E-11	1.689E-11	1.200E-15-1.000E+00	2.900E-10	1.720E-09	
EFFECTIVE	6.790E-14	1.532E-11	1.759E-11	1.250E-15-1.000E+00	1.700E-10	5.430E-10	
SKIN(FGR)	8.560E-14	2.280E-11	2.618E-11	1.860E-15-1.000E+00	0.000E+00	0.000E+00	
Y-90							
GONADS	1.890E-16	1.586E-13	1.601E-12	5.750E-18-1.000E+00	5.170E-13	1.430E-14	
BREAST	2.200E-16	1.578E-13	1.593E-12	5.720E-18-1.000E+00	5.170E-13	1.270E-14	
LUNGS	1.770E-16	1.313E-13	1.326E-12	4.760E-18-1.000E+00	9.310E-09	1.260E-14	
RED MARR	1.620E-16	1.261E-13	1.273E-12	4.570E-18-1.000E+00	1.520E-11	3.700E-13	
BONE SUR	4.440E-16	3.228E-13	3.259E-12	1.170E-17-1.000E+00	1.510E-11	3.670E-13	
THYROID	1.870E-16	1.385E-13	1.398E-12	5.020E-18-1.000E+00	5.170E-13	1.260E-14	
REMAINDER	1.680E-16	1.291E-13	1.303E-12	4.680E-18-1.000E+00	3.870E-09	9.680E-09	
EFFECTIVE	1.900E-16	1.468E-13	1.482E-12	5.320E-18-1.000E+00	2.280E-09	2.910E-09	
SKIN(FGR)	6.240E-14	2.897E-10	2.924E-09	1.050E-14-1.000E+00	0.000E+00	0.000E+00	
Y-91							
GONADS	2.560E-16	1.756E-13	3.546E-12	6.110E-18-1.000E+00	8.200E-12	3.540E-12	
BREAST	2.930E-16	1.713E-13	3.459E-12	5.960E-18-1.000E+00	8.920E-12	5.540E-13	
LUNGS	2.500E-16	1.526E-13	3.082E-12	5.310E-18-1.000E+00	9.870E-08	2.020E-13	
RED MARR	2.410E-16	1.521E-13	3.070E-12	5.290E-18-1.000E+00	3.190E-10	6.590E-12	
BONE SUR	4.560E-16	2.903E-13	5.862E-12	1.010E-17-1.000E+00	3.180E-10	6.130E-12	

CALCULATION NO. H21C-106				REV. No. 4		PAGE NO. 624	
THYROID	2.600E-16	1.564E-13	3.157E-12	5.440E-18-1.000E+00	8.500E-12	1.290E-13	
REMAINDER	2.390E-16	1.509E-13	3.047E-12	5.250E-18-1.000E+00	4.200E-09	8.570E-09	
EFFECTIVE	2.600E-16	1.650E-13	3.332E-12	5.740E-18-1.000E+00	1.320E-08	2.570E-09	
SKIN (FGR)	3.850E-14	1.989E-10	4.016E-09	6.920E-15-1.000E+00	0.000E+00	0.000E+00	
Y-92							
GONADS	1.270E-14	3.855E-12	4.872E-12	2.650E-16-1.000E+00	2.610E-12	1.960E-11	
BREAST	1.440E-14	3.680E-12	4.652E-12	2.530E-16-1.000E+00	1.500E-12	3.550E-12	
LUNGS	1.270E-14	3.535E-12	4.468E-12	2.430E-16-1.000E+00	1.240E-09	1.390E-12	
RED MARR	1.250E-14	3.608E-12	4.560E-12	2.480E-16-1.000E+00	2.070E-12	4.910E-12	
BONE SUR	1.950E-14	5.091E-12	6.435E-12	3.500E-16-1.000E+00	1.510E-12	1.750E-12	
THYROID	1.300E-14	3.579E-12	4.523E-12	2.460E-16-1.000E+00	1.050E-12	1.770E-13	
REMAINDER	1.220E-14	3.506E-12	4.431E-12	2.410E-16-1.000E+00	2.030E-10	1.700E-09	
EFFECTIVE	1.300E-14	3.680E-12	4.652E-12	2.530E-16-1.000E+00	2.110E-10	5.150E-10	
SKIN (FGR)	1.140E-13	2.022E-10	2.556E-10	1.390E-14-1.000E+00	0.000E+00	0.000E+00	
Y-93							
GONADS	4.670E-15	2.108E-12	4.989E-12	9.510E-17-1.000E+00	5.310E-12	2.200E-11	
BREAST	5.300E-15	2.026E-12	4.794E-12	9.140E-17-1.000E+00	1.740E-12	3.130E-12	
LUNGS	4.680E-15	1.937E-12	4.585E-12	8.740E-17-1.000E+00	2.520E-09	8.670E-13	
RED MARR	4.580E-15	1.972E-12	4.669E-12	8.900E-17-1.000E+00	4.040E-12	4.930E-12	
BONE SUR	7.580E-15	2.948E-12	6.977E-12	1.330E-16-1.000E+00	3.140E-12	1.730E-12	
THYROID	4.790E-15	1.908E-12	4.516E-12	8.610E-17-1.000E+00	9.260E-13	1.260E-13	
REMAINDER	4.510E-15	1.919E-12	4.543E-12	8.660E-17-1.000E+00	9.250E-10	4.090E-09	
EFFECTIVE	4.800E-15	2.021E-12	4.784E-12	9.120E-17-1.000E+00	5.820E-10	1.230E-09	
SKIN (FGR)	8.500E-14	2.726E-10	6.452E-10	1.230E-14-1.000E+00	0.000E+00	0.000E+00	
Zr-95							
GONADS	3.530E-14	2.182E-11	4.421E-10	7.590E-16-1.000E+00	1.880E-09	8.160E-10	
BREAST	4.010E-14	2.084E-11	4.223E-10	7.250E-16-1.000E+00	1.910E-09	1.050E-10	
LUNGS	3.510E-14	1.989E-11	4.030E-10	6.920E-16-1.000E+00	2.170E-09	2.340E-11	
RED MARR	3.430E-14	2.030E-11	4.112E-10	7.060E-16-1.000E+00	1.300E-08	2.140E-10	
BONE SUR	5.620E-14	2.875E-11	5.824E-10	1.000E-15-1.000E+00	1.030E-07	4.860E-10	
THYROID	3.610E-14	2.076E-11	4.205E-10	7.220E-16-1.000E+00	1.440E-09	8.270E-12	
REMAINDER	3.360E-14	1.963E-11	3.978E-10	6.830E-16-1.000E+00	2.280E-09	2.530E-09	
EFFECTIVE	3.600E-14	2.078E-11	4.211E-10	7.230E-16-1.000E+00	6.390E-09	1.020E-09	
SKIN (FGR)	4.500E-14	2.561E-11	5.190E-10	8.910E-16-1.000E+00	0.000E+00	0.000E+00	
Zr-97							
GONADS	8.800E-15	2.179E-11	7.799E-11	9.253E-16-1.000E+00	1.840E-10	6.228E-10	
BREAST	9.990E-15	2.083E-11	7.455E-11	8.846E-16-1.000E+00	4.700E-11	8.137E-11	
LUNGS	8.810E-15	1.992E-11	7.127E-11	8.456E-16-1.000E+00	4.110E-09	1.770E-11	
RED MARR	8.640E-15	2.034E-11	7.279E-11	8.634E-16-1.000E+00	6.370E-11	1.302E-10	
BONE SUR	1.380E-14	2.881E-11	1.031E-10	1.224E-15-1.000E+00	3.500E-11	4.558E-11	
THYROID	9.030E-15	2.061E-11	7.377E-11	8.755E-16-1.000E+00	2.310E-11	2.671E-12	
REMAINDER	8.480E-15	1.966E-11	7.035E-11	8.345E-16-1.000E+00	2.040E-09	6.990E-09	
EFFECTIVE	4.432E-14	2.078E-11	7.438E-11	8.824E-16-1.000E+00	1.171E-09	2.283E-09	
SKIN (FGR)	5.550E-14	2.281E-10	8.148E-10	9.587E-15-1.000E+00	0.000E+00	0.000E+00	
Nb-95							
GONADS	3.660E-14	2.253E-11	4.435E-10	7.850E-16-1.000E+00	4.320E-10	8.050E-10	
BREAST	4.160E-14	2.150E-11	4.231E-10	7.490E-16-1.000E+00	4.070E-10	1.070E-10	
LUNGS	3.650E-14	2.055E-11	4.045E-10	7.160E-16-1.000E+00	8.320E-09	2.740E-11	
RED MARR	3.560E-14	2.101E-11	4.135E-10	7.320E-16-1.000E+00	4.420E-10	1.990E-10	
BONE SUR	5.790E-14	2.957E-11	5.819E-10	1.030E-15-1.000E+00	5.130E-10	2.940E-10	
THYROID	3.750E-14	2.144E-11	4.220E-10	7.470E-16-1.000E+00	3.580E-10	1.180E-11	
REMAINDER	3.490E-14	2.032E-11	4.000E-10	7.080E-16-1.000E+00	1.070E-09	1.470E-09	
EFFECTIVE	3.740E-14	2.147E-11	4.226E-10	7.480E-16-1.000E+00	1.570E-09	6.950E-10	
SKIN (FGR)	4.300E-14	2.598E-11	5.112E-10	9.050E-16-1.000E+00	0.000E+00	0.000E+00	
Mo-99							
GONADS	7.130E-15	4.282E-12	4.403E-11	1.550E-16-1.000E+00	9.510E-11	2.180E-10	
BREAST	8.130E-15	4.116E-12	4.233E-11	1.490E-16-1.000E+00	2.750E-11	3.430E-11	
LUNGS	7.060E-15	3.867E-12	3.977E-11	1.400E-16-1.000E+00	4.290E-09	1.510E-11	
RED MARR	6.820E-15	3.923E-12	4.034E-11	1.420E-16-1.000E+00	5.240E-11	8.320E-11	
BONE SUR	1.240E-14	6.105E-12	6.278E-11	2.210E-16-1.000E+00	4.130E-11	6.320E-11	
THYROID	7.270E-15	4.033E-12	4.147E-11	1.460E-16-1.000E+00	1.520E-11	1.030E-11	
REMAINDER	6.740E-15	3.812E-12	3.920E-11	1.380E-16-1.000E+00	1.740E-09	4.280E-09	
EFFECTIVE	7.280E-15	4.061E-12	4.176E-11	1.470E-16-1.000E+00	1.070E-09	1.360E-09	
SKIN (FGR)	3.140E-14	1.039E-10	1.068E-09	3.760E-15-1.000E+00	0.000E+00	0.000E+00	
Tc-99m							
GONADS	5.750E-15	2.334E-12	3.877E-12	1.240E-16-1.000E+00	2.770E-12	9.750E-12	
BREAST	6.650E-15	2.258E-12	3.752E-12	1.200E-16-1.000E+00	2.150E-12	3.570E-12	
LUNGS	5.490E-15	2.127E-12	3.533E-12	1.130E-16-1.000E+00	2.280E-11	3.140E-12	
RED MARR	4.910E-15	2.070E-12	3.439E-12	1.100E-16-1.000E+00	3.360E-12	6.290E-12	

CALCULATION NO. H21C-106				REV. No. 4		PAGE NO. 625	
BONE SUR	1.630E-14	5.383E-12	8.942E-12	2.860E-16-1.000E+00	2.620E-12	4.060E-12	
THYROID	5.750E-15	2.145E-12	3.564E-12	1.140E-16-1.000E+00	5.010E-11	8.460E-11	
REMAINDER	5.150E-15	2.070E-12	3.439E-12	1.100E-16-1.000E+00	1.020E-11	3.340E-11	
EFFECTIVE	5.890E-15	2.277E-12	3.783E-12	1.210E-16-1.000E+00	8.800E-12	1.680E-11	
SKIN (FGR)	7.140E-15	2.710E-12	4.502E-12	1.440E-16-1.000E+00	0.000E+00	0.000E+00	
Ru-103							
GONADS	2.191E-14	1.404E-11	2.783E-10	4.892E-16-1.000E+00	3.070E-10	5.720E-10	
BREAST	2.512E-14	1.350E-11	2.677E-10	4.705E-16-1.000E+00	3.110E-10	1.200E-10	
LUNGS	2.180E-14	1.273E-11	2.522E-10	4.432E-16-1.000E+00	1.561E-08	7.310E-11	
RED MARR	2.100E-14	1.287E-11	2.551E-10	4.483E-16-1.000E+00	3.190E-10	1.660E-10	
BONE SUR	3.892E-14	1.958E-11	3.882E-10	6.823E-16-1.000E+00	2.370E-10	9.631E-11	
THYROID	2.241E-14	1.331E-11	2.639E-10	4.638E-16-1.000E+00	2.570E-10	6.250E-11	
REMAINDER	2.080E-14	1.248E-11	2.472E-10	4.346E-16-1.000E+00	1.250E-09	2.110E-09	
EFFECTIVE	2.251E-14	1.332E-11	2.641E-10	4.642E-16-1.000E+00	2.421E-09	8.271E-10	
SKIN (FGR)	2.774E-14	1.785E-11	3.543E-10	6.229E-16-1.000E+00	0.000E+00	0.000E+00	
Ru-105							
GONADS	3.720E-14	1.327E-11	1.861E-11	8.070E-16-1.000E+00	1.590E-11	9.670E-11	
BREAST	4.240E-14	1.271E-11	1.783E-11	7.730E-16-1.000E+00	6.610E-12	1.590E-11	
LUNGS	3.700E-14	1.210E-11	1.697E-11	7.360E-16-1.000E+00	5.730E-10	6.210E-12	
RED MARR	3.590E-14	1.230E-11	1.725E-11	7.480E-16-1.000E+00	7.700E-12	2.350E-11	
BONE SUR	6.280E-14	1.809E-11	2.537E-11	1.100E-15-1.000E+00	4.620E-12	8.890E-12	
THYROID	3.800E-14	1.260E-11	1.766E-11	7.660E-16-1.000E+00	4.150E-12	1.820E-12	
REMAINDER	3.540E-14	1.189E-11	1.667E-11	7.230E-16-1.000E+00	1.610E-10	8.540E-10	
EFFECTIVE	3.810E-14	1.265E-11	1.773E-11	7.690E-16-1.000E+00	1.230E-10	2.870E-10	
SKIN (FGR)	6.730E-14	7.368E-11	1.033E-10	4.480E-15-1.000E+00	0.000E+00	0.000E+00	
Ru-106							
GONADS	1.010E-14	6.411E-12	1.340E-10	2.230E-16-1.000E+00	1.300E-09	1.640E-09	
BREAST	1.160E-14	6.152E-12	1.286E-10	2.140E-16-1.000E+00	1.780E-09	1.440E-09	
LUNGS	1.010E-14	5.836E-12	1.220E-10	2.030E-16-1.000E+00	1.040E-06	1.420E-09	
RED MARR	9.750E-15	5.893E-12	1.232E-10	2.050E-16-1.000E+00	1.760E-09	1.460E-09	
BONE SUR	1.720E-14	8.883E-12	1.856E-10	3.090E-16-1.000E+00	1.610E-09	1.430E-09	
THYROID	1.030E-14	6.066E-12	1.268E-10	2.110E-16-1.000E+00	1.720E-09	1.410E-09	
REMAINDER	9.630E-15	5.721E-12	1.196E-10	1.990E-16-1.000E+00	1.200E-08	2.110E-08	
EFFECTIVE	1.040E-14	6.095E-12	1.274E-10	2.120E-16-1.000E+00	1.290E-07	7.400E-09	
SKIN (FGR)	1.090E-13	4.082E-10	8.531E-09	1.420E-14-1.000E+00	0.000E+00	0.000E+00	
Rh-105							
GONADS	3.640E-15	2.127E-12	1.411E-11	7.980E-17-1.000E+00	2.110E-11	5.800E-11	
BREAST	4.160E-15	2.063E-12	1.369E-11	7.740E-17-1.000E+00	5.610E-12	8.970E-12	
LUNGS	3.570E-15	1.935E-12	1.284E-11	7.260E-17-1.000E+00	9.580E-10	3.860E-12	
RED MARR	3.380E-15	1.946E-12	1.291E-11	7.300E-17-1.000E+00	7.770E-12	1.470E-11	
BONE SUR	7.530E-15	3.332E-12	2.210E-11	1.250E-16-1.000E+00	4.460E-12	6.750E-12	
THYROID	3.680E-15	1.983E-12	1.316E-11	7.440E-17-1.000E+00	2.880E-12	2.910E-12	
REMAINDER	3.390E-15	1.885E-12	1.250E-11	7.070E-17-1.000E+00	4.530E-10	1.270E-09	
EFFECTIVE	3.720E-15	2.031E-12	1.347E-11	7.620E-17-1.000E+00	2.580E-10	3.990E-10	
SKIN (FGR)	1.070E-14	4.691E-12	3.112E-11	1.760E-16-1.000E+00	0.000E+00	0.000E+00	
Sb-127							
GONADS	3.260E-14	1.985E-11	2.441E-10	7.100E-16-1.000E+00	2.520E-10	6.140E-10	
BREAST	3.720E-14	1.904E-11	2.341E-10	6.810E-16-1.000E+00	9.120E-11	7.600E-11	
LUNGS	3.240E-14	1.809E-11	2.224E-10	6.470E-16-1.000E+00	6.940E-09	1.570E-11	
RED MARR	3.140E-14	1.834E-11	2.255E-10	6.560E-16-1.000E+00	1.610E-10	1.330E-10	
BONE SUR	5.520E-14	2.720E-11	3.345E-10	9.730E-16-1.000E+00	1.340E-10	5.240E-11	
THYROID	3.330E-14	1.884E-11	2.317E-10	6.740E-16-1.000E+00	6.150E-11	4.640E-12	
REMAINDER	3.090E-14	1.775E-11	2.183E-10	6.350E-16-1.000E+00	2.330E-09	5.870E-09	
EFFECTIVE	3.330E-14	1.890E-11	2.324E-10	6.760E-16-1.000E+00	1.630E-09	1.950E-09	
SKIN (FGR)	5.580E-14	7.967E-11	9.799E-10	2.850E-15-1.000E+00	0.000E+00	0.000E+00	
Sb-129							
GONADS	6.970E-14	2.336E-11	3.231E-11	1.440E-15-1.000E+00	2.150E-11	1.510E-10	
BREAST	7.910E-14	2.222E-11	3.074E-11	1.370E-15-1.000E+00	1.280E-11	2.560E-11	
LUNGS	6.980E-14	2.141E-11	2.962E-11	1.320E-15-1.000E+00	8.980E-10	9.390E-12	
RED MARR	6.860E-14	2.190E-11	3.029E-11	1.350E-15-1.000E+00	1.700E-11	3.670E-11	
BONE SUR	1.070E-13	3.033E-11	4.196E-11	1.870E-15-1.000E+00	1.460E-11	1.340E-11	
THYROID	7.160E-14	2.174E-11	3.007E-11	1.340E-15-1.000E+00	9.720E-12	1.470E-12	
REMAINDER	6.710E-14	2.125E-11	2.939E-11	1.310E-15-1.000E+00	1.870E-10	1.450E-09	
EFFECTIVE	7.140E-14	2.238E-11	3.096E-11	1.380E-15-1.000E+00	1.740E-10	4.840E-10	
SKIN (FGR)	1.050E-13	8.273E-11	1.144E-10	5.100E-15-1.000E+00	0.000E+00	0.000E+00	
Te-127							
GONADS	2.370E-16	1.191E-13	2.661E-13	5.480E-18-1.000E+00	2.020E-12	4.020E-12	
BREAST	2.730E-16	1.158E-13	2.588E-13	5.330E-18-1.000E+00	1.880E-12	3.000E-12	
LUNGS	2.320E-16	1.060E-13	2.370E-13	4.880E-18-1.000E+00	4.270E-10	2.890E-12	

CALCULATION NO. H21C-106				REV. No. 4		PAGE NO. 626	
RED MARR	2.210E-16	1.058E-13	2.365E-13	4.870E-18-1.000E+00	4.090E-12	6.570E-12	
BONE SUR	4.650E-16	1.862E-13	4.162E-13	8.570E-18-1.000E+00	4.090E-12	6.460E-12	
THYROID	2.400E-16	1.106E-13	2.472E-13	5.090E-18-1.000E+00	1.840E-12	2.860E-12	
REMAINDER	2.210E-16	1.036E-13	2.316E-13	4.770E-18-1.000E+00	1.110E-10	6.130E-10	
EFFECTIVE	2.420E-16	1.125E-13	2.515E-13	5.180E-18-1.000E+00	8.600E-11	1.870E-10	
SKIN (FGR)	1.140E-14	1.173E-11	2.622E-11	5.400E-16-1.000E+00	0.000E+00	0.000E+00	
Te-127m							
GONADS	1.900E-16	4.689E-13	9.642E-12	1.630E-17-1.000E+00	1.100E-10	1.250E-10	
BREAST	2.690E-16	5.150E-13	1.059E-11	1.790E-17-1.000E+00	1.100E-10	9.740E-11	
LUNGS	7.620E-17	1.602E-13	3.295E-12	5.570E-18-1.000E+00	3.340E-08	9.620E-11	
RED MARR	6.430E-17	1.249E-13	2.567E-12	4.340E-18-1.000E+00	5.360E-09	5.430E-09	
BONE SUR	3.940E-16	9.005E-13	1.852E-11	3.130E-17-1.000E+00	2.040E-08	2.070E-08	
THYROID	1.500E-16	2.779E-13	5.714E-12	9.660E-18-1.000E+00	9.660E-11	9.430E-11	
REMAINDER	8.640E-17	1.999E-13	4.111E-12	6.950E-18-1.000E+00	1.660E-09	2.980E-09	
EFFECTIVE	1.470E-16	3.251E-13	6.684E-12	1.130E-17-1.000E+00	5.810E-09	2.230E-09	
SKIN (FGR)	8.490E-16	1.496E-12	3.076E-11	5.200E-17-1.000E+00	0.000E+00	0.000E+00	
Te-129							
GONADS	2.710E-15	3.889E-13	3.922E-13	6.510E-17-1.000E+00	5.050E-13	1.590E-12	
BREAST	3.120E-15	3.800E-13	3.832E-13	6.360E-17-1.000E+00	5.390E-13	6.050E-13	
LUNGS	2.640E-15	3.298E-13	3.326E-13	5.520E-17-1.000E+00	1.530E-10	4.910E-13	
RED MARR	2.540E-15	3.298E-13	3.326E-13	5.520E-17-1.000E+00	6.190E-13	7.640E-13	
BONE SUR	4.880E-15	5.753E-13	5.802E-13	9.630E-17-1.000E+00	6.220E-13	5.400E-13	
THYROID	2.740E-15	3.525E-13	3.555E-13	5.900E-17-1.000E+00	5.090E-13	3.360E-13	
REMAINDER	2.520E-15	3.262E-13	3.289E-13	5.460E-17-1.000E+00	7.280E-12	1.790E-10	
EFFECTIVE	2.750E-15	3.590E-13	3.621E-13	6.010E-17-1.000E+00	2.090E-11	5.450E-11	
SKIN (FGR)	3.570E-14	3.429E-11	3.458E-11	5.740E-15-1.000E+00	0.000E+00	0.000E+00	
Te-129m							
GONADS	1.560E-15	2.206E-12	4.799E-11	8.561E-17-1.000E+00	1.780E-10	2.420E-10	
BREAST	1.810E-15	2.181E-12	4.739E-11	8.454E-17-1.000E+00	1.690E-10	1.664E-10	
LUNGS	1.460E-15	1.741E-12	3.815E-11	6.808E-17-1.000E+00	4.030E-08	1.593E-10	
RED MARR	1.420E-15	1.729E-12	3.793E-11	6.768E-17-1.000E+00	3.100E-09	3.500E-09	
BONE SUR	2.600E-15	3.287E-12	7.147E-11	1.275E-16-1.000E+00	7.050E-09	7.990E-09	
THYROID	1.560E-15	1.923E-12	4.201E-11	7.495E-17-1.000E+00	1.560E-10	1.572E-10	
REMAINDER	1.410E-15	1.746E-12	3.822E-11	6.819E-17-1.000E+00	3.270E-09	7.196E-09	
EFFECTIVE	3.337E-15	1.974E-12	4.308E-11	7.686E-17-1.000E+00	6.484E-09	2.925E-09	
SKIN (FGR)	1.490E-14	1.501E-10	3.360E-09	6.001E-15-1.000E+00	0.000E+00	0.000E+00	
Te-131m							
GONADS	6.850E-14	4.020E-11	2.343E-10	1.535E-15-1.000E+00	2.340E-10	7.415E-10	
BREAST	7.780E-14	3.853E-11	2.246E-10	1.472E-15-1.000E+00	9.250E-11	1.361E-10	
LUNGS	6.830E-14	3.657E-11	2.131E-10	1.397E-15-1.000E+00	2.230E-09	6.335E-11	
RED MARR	6.680E-14	3.736E-11	2.178E-10	1.427E-15-1.000E+00	1.410E-10	2.435E-10	
BONE SUR	1.090E-13	5.467E-11	3.189E-10	2.090E-15-1.000E+00	2.270E-10	3.248E-10	
THYROID	7.020E-14	3.741E-11	2.181E-10	1.429E-15-1.000E+00	3.610E-08	4.383E-08	
REMAINDER	6.550E-14	3.626E-11	2.113E-10	1.385E-15-1.000E+00	9.460E-10	3.153E-09	
EFFECTIVE	7.463E-14	3.825E-11	2.229E-10	1.461E-15-1.000E+00	1.758E-09	2.514E-09	
SKIN (FGR)	8.850E-14	1.033E-10	6.188E-10	4.056E-15-1.000E+00	0.000E+00	0.000E+00	
Te-132							
GONADS	1.020E-14	6.812E-12	7.706E-11	2.450E-16-1.000E+00	4.150E-10	5.410E-10	
BREAST	1.180E-14	6.756E-12	7.643E-11	2.430E-16-1.000E+00	3.630E-10	3.500E-10	
LUNGS	9.650E-15	5.727E-12	6.479E-11	2.060E-16-1.000E+00	1.670E-09	3.300E-10	
RED MARR	8.950E-15	5.588E-12	6.322E-11	2.010E-16-1.000E+00	4.270E-10	4.440E-10	
BONE SUR	2.420E-14	1.273E-11	1.441E-10	4.580E-16-1.000E+00	7.120E-10	8.300E-10	
THYROID	1.020E-14	5.978E-12	6.762E-11	2.150E-16-1.000E+00	6.280E-08	5.950E-08	
REMAINDER	9.160E-15	5.644E-12	6.385E-11	2.030E-16-1.000E+00	7.890E-10	1.490E-09	
EFFECTIVE	1.030E-14	6.339E-12	7.171E-11	2.280E-16-1.000E+00	2.550E-09	2.540E-09	
SKIN (FGR)	1.390E-14	8.313E-12	9.405E-11	2.990E-16-1.000E+00	0.000E+00	0.000E+00	
I-131							
GONADS	1.780E-14	1.119E-11	1.789E-10	3.940E-16-1.000E+00	2.530E-11	4.070E-11	
BREAST	2.040E-14	1.082E-11	1.730E-10	3.810E-16-1.000E+00	7.880E-11	1.210E-10	
LUNGS	1.760E-14	1.016E-11	1.626E-10	3.580E-16-1.000E+00	6.570E-10	1.020E-10	
RED MARR	1.680E-14	1.022E-11	1.635E-10	3.600E-16-1.000E+00	6.260E-11	9.440E-11	
BONE SUR	3.450E-14	1.675E-11	2.679E-10	5.900E-16-1.000E+00	5.730E-11	8.720E-11	
THYROID	1.810E-14	1.053E-11	1.685E-10	3.710E-16-1.000E+00	2.920E-07	4.760E-07	
REMAINDER	1.670E-14	9.908E-12	1.585E-10	3.490E-16-1.000E+00	8.030E-11	1.570E-10	
EFFECTIVE	1.820E-14	1.067E-11	1.707E-10	3.760E-16-1.000E+00	8.890E-09	1.440E-08	
SKIN (FGR)	2.980E-14	1.825E-11	2.920E-10	6.430E-16-1.000E+00	0.000E+00	0.000E+00	
I-132							
GONADS	1.090E-13	2.523E-11	2.771E-11	2.320E-15-1.000E+00	9.950E-12	2.330E-11	
BREAST	1.240E-13	2.414E-11	2.652E-11	2.220E-15-1.000E+00	1.410E-11	2.520E-11	

CALCULATION NO. H21C-106				REV. No. 4		PAGE NO. 627	
LUNGS	1.090E-13	2.305E-11	2.532E-11	2.120E-15-1.000E+00	2.710E-10	2.640E-11	
RED MARR	1.070E-13	2.360E-11	2.592E-11	2.170E-15-1.000E+00	1.400E-11	2.460E-11	
BONE SUR	1.730E-13	3.327E-11	3.655E-11	3.060E-15-1.000E+00	1.240E-11	2.190E-11	
THYROID	1.120E-13	2.381E-11	2.616E-11	2.190E-15-1.000E+00	1.740E-09	3.870E-09	
REMAINDER	1.050E-13	2.283E-11	2.509E-11	2.100E-15-1.000E+00	3.780E-11	1.650E-10	
EFFECTIVE	1.120E-13	2.403E-11	2.640E-11	2.210E-15-1.000E+00	1.030E-10	1.820E-10	
SKIN (FGR)	1.580E-13	8.199E-11	9.007E-11	7.540E-15-1.000E+00	0.000E+00	0.000E+00	
I-133							
GONADS	2.870E-14	1.585E-11	6.748E-11	6.270E-16-1.000E+00	1.950E-11	3.630E-11	
BREAST	3.280E-14	1.519E-11	6.468E-11	6.010E-16-1.000E+00	2.940E-11	4.680E-11	
LUNGS	2.860E-14	1.446E-11	6.156E-11	5.720E-16-1.000E+00	8.200E-10	4.530E-11	
RED MARR	2.770E-14	1.466E-11	6.242E-11	5.800E-16-1.000E+00	2.720E-11	4.300E-11	
BONE SUR	4.870E-14	2.161E-11	9.202E-11	8.550E-16-1.000E+00	2.520E-11	4.070E-11	
THYROID	2.930E-14	1.502E-11	6.393E-11	5.940E-16-1.000E+00	4.860E-08	9.100E-08	
REMAINDER	2.730E-14	1.418E-11	6.038E-11	5.610E-16-1.000E+00	5.000E-11	1.550E-10	
EFFECTIVE	2.940E-14	1.509E-11	6.425E-11	5.970E-16-1.000E+00	1.580E-09	2.800E-09	
SKIN (FGR)	5.830E-14	1.150E-10	4.897E-10	4.550E-15-1.000E+00	0.000E+00	0.000E+00	
I-134							
GONADS	1.270E-13	1.200E-11	1.202E-11	2.640E-15-1.000E+00	4.250E-12	1.100E-11	
BREAST	1.440E-13	1.145E-11	1.147E-11	2.520E-15-1.000E+00	6.170E-12	1.170E-11	
LUNGS	1.270E-13	1.100E-11	1.102E-11	2.420E-15-1.000E+00	1.430E-10	1.260E-11	
RED MARR	1.250E-13	1.127E-11	1.129E-11	2.480E-15-1.000E+00	6.080E-12	1.090E-11	
BONE SUR	1.960E-13	1.568E-11	1.571E-11	3.450E-15-1.000E+00	5.310E-12	9.320E-12	
THYROID	1.300E-13	1.127E-11	1.129E-11	2.480E-15-1.000E+00	2.880E-10	6.210E-10	
REMAINDER	1.220E-13	1.091E-11	1.093E-11	2.400E-15-1.000E+00	2.270E-11	1.340E-10	
EFFECTIVE	1.300E-13	1.150E-11	1.152E-11	2.530E-15-1.000E+00	3.550E-11	6.660E-11	
SKIN (FGR)	1.870E-13	4.477E-11	4.485E-11	9.850E-15-1.000E+00	0.000E+00	0.000E+00	
I-135							
GONADS	8.078E-14	3.113E-11	5.489E-11	1.599E-15-1.000E+00	1.700E-11	3.610E-11	
BREAST	9.143E-14	2.971E-11	5.240E-11	1.526E-15-1.000E+00	2.340E-11	3.850E-11	
LUNGS	8.145E-14	2.886E-11	5.089E-11	1.482E-15-1.000E+00	4.410E-10	3.750E-11	
RED MARR	8.054E-14	2.965E-11	5.228E-11	1.523E-15-1.000E+00	2.240E-11	3.650E-11	
BONE SUR	1.184E-13	3.983E-11	7.024E-11	2.046E-15-1.000E+00	2.010E-11	3.360E-11	
THYROID	8.324E-14	2.852E-11	5.030E-11	1.465E-15-1.000E+00	8.460E-09	1.790E-08	
REMAINDER	7.861E-14	2.883E-11	5.084E-11	1.481E-15-1.000E+00	4.700E-11	1.540E-10	
EFFECTIVE	8.294E-14	2.989E-11	5.271E-11	1.535E-15-1.000E+00	3.320E-10	6.080E-10	
SKIN (FGR)	1.156E-13	9.826E-11	1.733E-10	5.047E-15-1.000E+00	0.000E+00	0.000E+00	
Xe-133							
GONADS	1.610E-15	1.465E-12	2.052E-11	5.200E-17-1.000E+00	0.000E+00	0.000E+00	
BREAST	1.960E-15	1.505E-12	2.107E-11	5.340E-17-1.000E+00	0.000E+00	0.000E+00	
LUNGS	1.320E-15	1.045E-12	1.464E-11	3.710E-17-1.000E+00	0.000E+00	0.000E+00	
RED MARR	1.070E-15	8.791E-13	1.231E-11	3.120E-17-1.000E+00	0.000E+00	0.000E+00	
BONE SUR	5.130E-15	4.254E-12	5.958E-11	1.510E-16-1.000E+00	0.000E+00	0.000E+00	
THYROID	1.510E-15	1.181E-12	1.653E-11	4.190E-17-1.000E+00	0.000E+00	0.000E+00	
REMAINDER	1.240E-15	1.042E-12	1.460E-11	3.700E-17-1.000E+00	0.000E+00	0.000E+00	
EFFECTIVE	1.560E-15	1.299E-12	1.819E-11	4.610E-17-1.000E+00	0.000E+00	0.000E+00	
SKIN (FGR)	4.970E-15	1.953E-12	2.734E-11	6.930E-17-1.000E+00	0.000E+00	0.000E+00	
Xe-133m							
GONADS	1.610E-15	1.465E-12	2.052E-11	5.200E-17-1.000E+00	0.000E+00	0.000E+00	
BREAST	1.960E-15	1.505E-12	2.107E-11	5.340E-17-1.000E+00	0.000E+00	0.000E+00	
LUNGS	1.320E-15	1.045E-12	1.464E-11	3.710E-17-1.000E+00	0.000E+00	0.000E+00	
RED MARR	1.070E-15	8.791E-13	1.231E-11	3.120E-17-1.000E+00	0.000E+00	0.000E+00	
BONE SUR	5.130E-15	4.254E-12	5.958E-11	1.510E-16-1.000E+00	0.000E+00	0.000E+00	
THYROID	1.510E-15	1.181E-12	1.653E-11	4.190E-17-1.000E+00	0.000E+00	0.000E+00	
REMAINDER	1.240E-15	1.042E-12	1.460E-11	3.700E-17-1.000E+00	0.000E+00	0.000E+00	
EFFECTIVE	1.370E-15	1.299E-12	1.819E-11	4.610E-17-1.000E+00	0.000E+00	0.000E+00	
SKIN (FGR)	4.970E-15	1.953E-12	2.734E-11	6.930E-17-1.000E+00	0.000E+00	0.000E+00	
Xe-135							
GONADS	1.170E-14	5.455E-12	1.194E-11	2.530E-16-1.000E+00	0.000E+00	0.000E+00	
BREAST	1.330E-14	5.325E-12	1.166E-11	2.470E-16-1.000E+00	0.000E+00	0.000E+00	
LUNGS	1.130E-14	4.959E-12	1.086E-11	2.300E-16-1.000E+00	0.000E+00	0.000E+00	
RED MARR	1.070E-14	4.959E-12	1.086E-11	2.300E-16-1.000E+00	0.000E+00	0.000E+00	
BONE SUR	2.570E-14	9.120E-12	1.997E-11	4.230E-16-1.000E+00	0.000E+00	0.000E+00	
THYROID	1.180E-14	5.023E-12	1.100E-11	2.330E-16-1.000E+00	0.000E+00	0.000E+00	
REMAINDER	1.080E-14	4.829E-12	1.058E-11	2.240E-16-1.000E+00	0.000E+00	0.000E+00	
EFFECTIVE	1.190E-14	5.217E-12	1.142E-11	2.420E-16-1.000E+00	0.000E+00	0.000E+00	
SKIN (FGR)	3.120E-14	4.506E-11	9.867E-11	2.090E-15-1.000E+00	0.000E+00	0.000E+00	
Xe-135m							
GONADS	2.000E-14	5.933E-13	5.933E-13	4.480E-16-1.000E+00	0.000E+00	0.000E+00	

CALCULATION NO. H21C-106				REV. No. 4		PAGE NO. 628	
BREAST	2.290E-14	5.695E-13	5.695E-13	4.300E-16-1.000E+00	0.000E+00	0.000E+00	
LUNGS	1.980E-14	5.351E-13	5.351E-13	4.040E-16-1.000E+00	0.000E+00	0.000E+00	
RED MARR	1.910E-14	5.404E-13	5.404E-13	4.080E-16-1.000E+00	0.000E+00	0.000E+00	
BONE SUR	3.500E-14	8.251E-13	8.251E-13	6.230E-16-1.000E+00	0.000E+00	0.000E+00	
THYROID	2.040E-14	5.615E-13	5.615E-13	4.240E-16-1.000E+00	0.000E+00	0.000E+00	
REMAINDER	1.890E-14	5.245E-13	5.245E-13	3.960E-16-1.000E+00	0.000E+00	0.000E+00	
EFFECTIVE	2.040E-14	5.615E-13	5.615E-13	4.240E-16-1.000E+00	0.000E+00	0.000E+00	
SKIN (FGR)	2.970E-14	1.867E-12	1.867E-12	1.410E-15-1.000E+00	0.000E+00	0.000E+00	
Xe-138							
GONADS	5.590E-14	1.315E-12	1.315E-12	1.070E-15-1.000E+00	0.000E+00	0.000E+00	
BREAST	6.320E-14	1.254E-12	1.254E-12	1.020E-15-1.000E+00	0.000E+00	0.000E+00	
LUNGS	5.660E-14	1.225E-12	1.225E-12	9.970E-16-1.000E+00	0.000E+00	0.000E+00	
RED MARR	5.600E-14	1.254E-12	1.254E-12	1.020E-15-1.000E+00	0.000E+00	0.000E+00	
BONE SUR	8.460E-14	1.733E-12	1.733E-12	1.410E-15-1.000E+00	0.000E+00	0.000E+00	
THYROID	5.770E-14	1.174E-12	1.174E-12	9.550E-16-1.000E+00	0.000E+00	0.000E+00	
REMAINDER	5.490E-14	1.222E-12	1.222E-12	9.940E-16-1.000E+00	0.000E+00	0.000E+00	
EFFECTIVE	5.770E-14	1.266E-12	1.266E-12	1.030E-15-1.000E+00	0.000E+00	0.000E+00	
SKIN (FGR)	1.070E-13	9.403E-12	9.403E-12	7.650E-15-1.000E+00	0.000E+00	0.000E+00	
Cs-134							
GONADS	7.400E-14	4.607E-11	9.646E-10	1.600E-15-1.000E+00	1.300E-08	2.060E-08	
BREAST	8.430E-14	4.406E-11	9.224E-10	1.530E-15-1.000E+00	1.080E-08	1.720E-08	
LUNGS	7.370E-14	4.204E-11	8.802E-10	1.460E-15-1.000E+00	1.180E-08	1.760E-08	
RED MARR	7.190E-14	4.262E-11	8.922E-10	1.480E-15-1.000E+00	1.180E-08	1.870E-08	
BONE SUR	1.200E-13	6.105E-11	1.278E-09	2.120E-15-1.000E+00	1.100E-08	1.740E-08	
THYROID	7.570E-14	4.377E-11	9.163E-10	1.520E-15-1.000E+00	1.110E-08	1.760E-08	
REMAINDER	7.060E-14	4.147E-11	8.681E-10	1.440E-15-1.000E+00	1.390E-08	2.210E-08	
EFFECTIVE	7.570E-14	4.377E-11	9.163E-10	1.520E-15-1.000E+00	1.250E-08	1.980E-08	
SKIN (FGR)	9.450E-14	6.249E-11	1.308E-09	2.170E-15-1.000E+00	0.000E+00	0.000E+00	
Cs-136							
GONADS	1.040E-13	6.223E-11	1.102E-09	2.180E-15-1.000E+00	1.880E-09	3.040E-09	
BREAST	1.180E-13	5.966E-11	1.056E-09	2.090E-15-1.000E+00	1.670E-09	2.650E-09	
LUNGS	1.040E-13	5.710E-11	1.011E-09	2.000E-15-1.000E+00	2.320E-09	2.620E-09	
RED MARR	1.010E-13	5.824E-11	1.031E-09	2.040E-15-1.000E+00	1.860E-09	2.950E-09	
BONE SUR	1.660E-13	8.422E-11	1.491E-09	2.950E-15-1.000E+00	1.700E-09	2.710E-09	
THYROID	1.070E-13	5.852E-11	1.036E-09	2.050E-15-1.000E+00	1.730E-09	2.740E-09	
REMAINDER	9.950E-14	5.652E-11	1.001E-09	1.980E-15-1.000E+00	2.190E-09	3.520E-09	
EFFECTIVE	1.060E-13	5.966E-11	1.056E-09	2.090E-15-1.000E+00	1.980E-09	3.040E-09	
SKIN (FGR)	1.250E-13	7.251E-11	1.284E-09	2.540E-15-1.000E+00	0.000E+00	0.000E+00	
Cs-137							
GONADS	2.669E-14	1.669E-11	3.530E-10	5.840E-16-1.000E+00	8.760E-09	1.390E-08	
BREAST	3.047E-14	1.596E-11	3.376E-10	5.585E-16-1.000E+00	7.840E-09	1.240E-08	
LUNGS	2.649E-14	1.517E-11	3.209E-10	5.309E-16-1.000E+00	8.820E-09	1.270E-08	
RED MARR	2.583E-14	1.542E-11	3.260E-10	5.394E-16-1.000E+00	8.300E-09	1.320E-08	
BONE SUR	4.382E-14	2.238E-11	4.734E-10	7.832E-16-1.000E+00	7.940E-09	1.260E-08	
THYROID	2.725E-14	1.588E-11	3.358E-10	5.556E-16-1.000E+00	7.930E-09	1.260E-08	
REMAINDER	2.536E-14	1.490E-11	3.152E-10	5.215E-16-1.000E+00	9.120E-09	1.450E-08	
EFFECTIVE	2.725E-14	1.585E-11	3.353E-10	5.546E-16-1.000E+00	8.630E-09	1.350E-08	
SKIN (FGR)	4.392E-14	5.253E-11	1.110E-09	1.836E-15-1.000E+00	0.000E+00	0.000E+00	
Ba-139							
GONADS	2.130E-15	3.368E-13	3.429E-13	4.790E-17-1.000E+00	2.560E-12	1.560E-12	
BREAST	2.450E-15	3.297E-13	3.357E-13	4.690E-17-1.000E+00	2.460E-12	5.170E-13	
LUNGS	2.030E-15	3.002E-13	3.057E-13	4.270E-17-1.000E+00	2.530E-10	3.890E-13	
RED MARR	1.870E-15	2.932E-13	2.985E-13	4.170E-17-1.000E+00	3.410E-12	8.590E-13	
BONE SUR	5.290E-15	6.841E-13	6.965E-13	9.730E-17-1.000E+00	2.490E-12	4.380E-13	
THYROID	2.130E-15	3.044E-13	3.100E-13	4.330E-17-1.000E+00	2.400E-12	2.660E-13	
REMAINDER	1.920E-15	2.932E-13	2.985E-13	4.170E-17-1.000E+00	4.820E-11	3.570E-10	
EFFECTIVE	2.170E-15	3.227E-13	3.286E-13	4.590E-17-1.000E+00	4.640E-11	1.080E-10	
SKIN (FGR)	6.160E-14	7.241E-11	7.373E-11	1.030E-14-1.000E+00	0.000E+00	0.000E+00	
Ba-140							
GONADS	8.410E-15	5.451E-12	9.607E-11	1.910E-16-1.000E+00	4.300E-10	9.960E-10	
BREAST	9.640E-15	5.280E-12	9.305E-11	1.850E-16-1.000E+00	2.870E-10	1.590E-10	
LUNGS	8.270E-15	4.852E-12	8.550E-11	1.700E-16-1.000E+00	1.660E-09	6.630E-11	
RED MARR	7.930E-15	4.880E-12	8.601E-11	1.710E-16-1.000E+00	1.290E-09	4.390E-10	
BONE SUR	1.550E-14	8.020E-12	1.413E-10	2.810E-16-1.000E+00	2.410E-09	5.530E-10	
THYROID	8.530E-15	5.109E-12	9.003E-11	1.790E-16-1.000E+00	2.560E-10	5.250E-11	
REMAINDER	7.890E-15	4.766E-12	8.399E-11	1.670E-16-1.000E+00	1.410E-09	7.370E-09	
EFFECTIVE	8.580E-15	5.137E-12	9.053E-11	1.800E-16-1.000E+00	1.010E-09	2.560E-09	
SKIN (FGR)	2.520E-14	5.565E-11	9.808E-10	1.950E-15-1.000E+00	0.000E+00	0.000E+00	
La-140							

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GONADS	1.140E-13	6.027E-11	4.425E-10	2.240E-15-1.000E+00	4.540E-10	1.340E-09	
BREAST	1.290E-13	5.758E-11	4.228E-10	2.140E-15-1.000E+00	1.450E-10	1.800E-10	
LUNGS	1.150E-13	5.596E-11	4.109E-10	2.080E-15-1.000E+00	4.210E-09	4.010E-11	
RED MARR	1.140E-13	5.731E-11	4.208E-10	2.130E-15-1.000E+00	2.140E-10	2.810E-10	
BONE SUR	1.690E-13	7.776E-11	5.709E-10	2.890E-15-1.000E+00	1.410E-10	9.770E-11	
THYROID	1.180E-13	5.462E-11	4.010E-10	2.030E-15-1.000E+00	6.870E-11	6.400E-12	
REMAINDER	1.110E-13	5.569E-11	4.089E-10	2.070E-15-1.000E+00	2.120E-09	6.260E-09	
EFFECTIVE	1.170E-13	5.812E-11	4.267E-10	2.160E-15-1.000E+00	1.310E-09	2.280E-09	
SKIN (FGR)	1.660E-13	2.217E-10	1.628E-09	8.240E-15-1.000E+00	0.000E+00	0.000E+00	
La-141							
GONADS	2.330E-15	7.315E-13	9.675E-13	4.740E-17-1.000E+00	1.010E-11	3.770E-12	
BREAST	2.640E-15	7.007E-13	9.267E-13	4.540E-17-1.000E+00	9.840E-12	7.070E-13	
LUNGS	2.340E-15	6.713E-13	8.879E-13	4.350E-17-1.000E+00	6.460E-10	2.720E-13	
RED MARR	2.310E-15	6.852E-13	9.063E-13	4.440E-17-1.000E+00	2.930E-11	1.070E-12	
BONE SUR	3.490E-15	9.923E-13	1.312E-12	6.430E-17-1.000E+00	1.200E-10	6.060E-13	
THYROID	2.390E-15	6.590E-13	8.716E-13	4.270E-17-1.000E+00	9.400E-12	5.290E-14	
REMAINDER	2.260E-15	6.682E-13	8.838E-13	4.330E-17-1.000E+00	2.280E-10	1.240E-09	
EFFECTIVE	2.390E-15	7.007E-13	9.267E-13	4.540E-17-1.000E+00	1.570E-10	3.740E-10	
SKIN (FGR)	6.580E-14	1.667E-10	2.204E-10	1.080E-14-1.000E+00	0.000E+00	0.000E+00	
La-142							
GONADS	1.400E-13	1.978E-11	2.034E-11	2.540E-15-1.000E+00	1.660E-11	6.990E-11	
BREAST	1.570E-13	1.885E-11	1.938E-11	2.420E-15-1.000E+00	1.130E-11	1.540E-11	
LUNGS	1.420E-13	1.846E-11	1.898E-11	2.370E-15-1.000E+00	3.010E-10	8.400E-12	
RED MARR	1.420E-13	1.900E-11	1.954E-11	2.440E-15-1.000E+00	1.360E-11	1.930E-11	
BONE SUR	1.950E-13	2.484E-11	2.554E-11	3.190E-15-1.000E+00	1.110E-11	7.400E-12	
THYROID	1.450E-13	1.768E-11	1.818E-11	2.270E-15-1.000E+00	8.740E-12	1.160E-12	
REMAINDER	1.380E-13	1.853E-11	1.906E-11	2.380E-15-1.000E+00	8.070E-11	5.200E-10	
EFFECTIVE	1.440E-13	1.916E-11	1.970E-11	2.460E-15-1.000E+00	6.840E-11	1.790E-10	
SKIN (FGR)	2.160E-13	9.111E-11	9.368E-11	1.170E-14-1.000E+00	0.000E+00	0.000E+00	
Ce-141							
GONADS	3.380E-15	2.213E-12	4.332E-11	7.710E-17-1.000E+00	5.540E-11	1.080E-10	
BREAST	3.930E-15	2.170E-12	4.247E-11	7.560E-17-1.000E+00	4.460E-11	1.110E-11	
LUNGS	3.170E-15	1.951E-12	3.820E-11	6.800E-17-1.000E+00	1.670E-08	1.430E-12	
RED MARR	2.830E-15	1.860E-12	3.641E-11	6.480E-17-1.000E+00	8.960E-11	3.390E-11	
BONE SUR	9.410E-15	5.166E-12	1.011E-10	1.800E-16-1.000E+00	2.540E-10	2.300E-11	
THYROID	3.350E-15	2.003E-12	3.922E-11	6.980E-17-1.000E+00	2.550E-11	1.800E-13	
REMAINDER	2.980E-15	1.894E-12	3.708E-11	6.600E-17-1.000E+00	1.260E-09	2.500E-09	
EFFECTIVE	3.430E-15	2.118E-12	4.146E-11	7.380E-17-1.000E+00	2.420E-09	7.830E-10	
SKIN (FGR)	1.020E-14	3.788E-12	7.416E-11	1.320E-16-1.000E+00	0.000E+00	0.000E+00	
Ce-143							
GONADS	1.280E-14	7.900E-12	4.958E-11	2.980E-16-1.000E+00	7.530E-11	2.120E-10	
BREAST	1.470E-14	7.688E-12	4.825E-11	2.900E-16-1.000E+00	1.660E-11	2.320E-11	
LUNGS	1.230E-14	6.893E-12	4.325E-11	2.600E-16-1.000E+00	3.880E-09	3.820E-12	
RED MARR	1.170E-14	6.787E-12	4.259E-11	2.560E-16-1.000E+00	2.960E-11	5.070E-11	
BONE SUR	2.520E-14	1.323E-11	8.302E-11	4.990E-16-1.000E+00	1.640E-11	1.610E-11	
THYROID	1.280E-14	7.211E-12	4.525E-11	2.720E-16-1.000E+00	6.230E-12	4.350E-13	
REMAINDER	1.170E-14	6.734E-12	4.226E-11	2.540E-16-1.000E+00	1.420E-09	3.890E-09	
EFFECTIVE	1.290E-14	7.396E-12	4.642E-11	2.790E-16-1.000E+00	9.160E-10	1.230E-09	
SKIN (FGR)	3.960E-14	1.058E-10	6.638E-10	3.990E-15-1.000E+00	0.000E+00	0.000E+00	
Ce-144							
GONADS	2.725E-15	6.328E-13	1.319E-11	6.088E-17-1.000E+00	2.390E-10	6.987E-11	
BREAST	3.129E-15	6.274E-13	1.307E-11	5.922E-17-1.000E+00	3.480E-10	1.223E-11	
LUNGS	2.639E-15	5.228E-13	1.089E-11	5.362E-17-1.000E+00	7.911E-07	6.551E-12	
RED MARR	2.507E-15	4.755E-13	9.907E-12	5.247E-17-1.000E+00	2.880E-09	8.923E-11	
BONE SUR	5.441E-15	1.646E-12	3.429E-11	1.127E-16-1.000E+00	4.720E-09	1.280E-10	
THYROID	2.753E-15	5.529E-13	1.152E-11	5.418E-17-1.000E+00	2.920E-10	5.154E-12	
REMAINDER	2.534E-15	5.086E-13	1.060E-11	5.283E-17-1.000E+00	1.910E-08	1.890E-08	
EFFECTIVE	2.773E-15	5.909E-13	1.231E-11	5.766E-17-1.000E+00	1.010E-07	5.711E-09	
SKIN (FGR)	8.574E-14	7.648E-13	1.594E-11	1.250E-14-1.000E+00	0.000E+00	0.000E+00	
Pr-143							
GONADS	2.130E-17	2.264E-14	4.032E-13	7.930E-19-1.000E+00	4.370E-18	8.990E-18	
BREAST	2.550E-17	2.330E-14	4.149E-13	8.160E-19-1.000E+00	2.220E-18	1.090E-18	
LUNGS	1.860E-17	1.642E-14	2.923E-13	5.750E-19-1.000E+00	1.330E-08	1.910E-19	
RED MARR	1.620E-17	1.493E-14	2.659E-13	5.230E-19-1.000E+00	1.480E-11	1.030E-12	
BONE SUR	5.930E-17	5.454E-14	9.711E-13	1.910E-18-1.000E+00	1.490E-11	1.030E-12	
THYROID	2.050E-17	1.802E-14	3.208E-13	6.310E-19-1.000E+00	1.680E-18	2.660E-20	
REMAINDER	1.760E-17	1.642E-14	2.923E-13	5.750E-19-1.000E+00	1.970E-09	4.220E-09	
EFFECTIVE	2.100E-17	2.002E-14	3.564E-13	7.010E-19-1.000E+00	2.190E-09	1.270E-09	
SKIN (FGR)	1.760E-14	5.711E-11	1.017E-09	2.000E-15-1.000E+00	0.000E+00	0.000E+00	

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Nd-147

GONADS	6.130E-15	4.218E-12	7.235E-11	1.480E-16-1.000E+00	8.410E-11	1.790E-10
BREAST	7.120E-15	4.132E-12	7.088E-11	1.450E-16-1.000E+00	3.450E-11	1.870E-11
LUNGS	5.820E-15	3.648E-12	6.257E-11	1.280E-16-1.000E+00	1.060E-08	2.440E-12
RED MARR	5.400E-15	3.505E-12	6.013E-11	1.230E-16-1.000E+00	9.190E-11	5.050E-11
BONE SUR	1.320E-14	8.265E-12	1.418E-10	2.900E-16-1.000E+00	3.260E-10	2.220E-11
THYROID	6.120E-15	3.876E-12	6.648E-11	1.360E-16-1.000E+00	1.820E-11	2.640E-13
REMAINDER	5.530E-15	3.562E-12	6.111E-11	1.250E-16-1.000E+00	1.760E-09	3.760E-09
EFFECTIVE	6.190E-15	3.961E-12	6.795E-11	1.390E-16-1.000E+00	1.850E-09	1.180E-09
SKIN (FGR)	1.950E-14	3.135E-11	5.377E-10	1.100E-15-1.000E+00	0.000E+00	0.000E+00

Np-239

GONADS	7.530E-15	4.691E-12	4.380E-11	1.710E-16-1.000E+00	7.450E-11	1.620E-10
BREAST	8.730E-15	4.636E-12	4.329E-11	1.690E-16-1.000E+00	1.630E-11	1.720E-11
LUNGS	7.180E-15	4.115E-12	3.842E-11	1.500E-16-1.000E+00	2.360E-09	2.400E-12
RED MARR	6.500E-15	4.005E-12	3.740E-11	1.460E-16-1.000E+00	2.080E-10	4.660E-11
BONE SUR	2.000E-14	1.001E-11	9.349E-11	3.650E-16-1.000E+00	2.030E-09	3.590E-11
THYROID	7.520E-15	4.197E-12	3.919E-11	1.530E-16-1.000E+00	7.620E-12	2.070E-13
REMAINDER	6.760E-15	4.005E-12	3.740E-11	1.460E-16-1.000E+00	9.590E-10	2.770E-09
EFFECTIVE	7.690E-15	4.471E-12	4.175E-11	1.630E-16-1.000E+00	6.780E-10	8.820E-10
SKIN (FGR)	1.600E-14	7.215E-12	6.737E-11	2.630E-16-1.000E+00	0.000E+00	0.000E+00

Pu-238

GONADS	6.560E-18	4.291E-14	9.011E-13	1.490E-18-1.000E+00	1.040E-05	2.330E-09
BREAST	1.270E-17	5.558E-14	1.167E-12	1.930E-18-1.000E+00	4.400E-10	1.800E-13
LUNGS	1.060E-18	2.267E-15	4.759E-14	7.870E-20-1.000E+00	3.200E-04	8.640E-14
RED MARR	1.680E-18	5.587E-15	1.173E-13	1.940E-19-1.000E+00	5.800E-05	1.270E-08
BONE SUR	9.300E-18	3.514E-14	7.378E-13	1.220E-18-1.000E+00	7.250E-04	1.580E-07
THYROID	4.010E-18	9.792E-15	2.056E-13	3.400E-19-1.000E+00	3.860E-10	7.990E-14
REMAINDER	1.990E-18	9.216E-15	1.935E-13	3.200E-19-1.000E+00	2.740E-05	2.180E-08
EFFECTIVE	4.880E-18	2.413E-14	5.068E-13	8.380E-19-1.000E+00	7.790E-05	1.340E-08
SKIN (FGR)	4.090E-17	2.776E-13	5.830E-12	9.640E-18-1.000E+00	0.000E+00	0.000E+00

Pu-239

GONADS	4.840E-18	1.768E-14	3.713E-13	6.140E-19-1.000E+00	1.200E-05	2.640E-09
BREAST	7.550E-18	2.238E-14	4.699E-13	7.770E-19-1.000E+00	3.990E-10	1.210E-13
LUNGS	2.650E-18	2.267E-15	4.760E-14	7.870E-20-1.000E+00	3.230E-04	7.890E-14
RED MARR	2.670E-18	3.456E-15	7.258E-14	1.200E-19-1.000E+00	6.570E-05	1.410E-08
BONE SUR	9.470E-18	1.673E-14	3.514E-13	5.810E-19-1.000E+00	8.210E-04	1.760E-07
THYROID	3.880E-18	5.126E-15	1.077E-13	1.780E-19-1.000E+00	3.750E-10	7.500E-14
REMAINDER	2.860E-18	4.838E-15	1.016E-13	1.680E-19-1.000E+00	3.020E-05	2.120E-08
EFFECTIVE	4.240E-18	1.057E-14	2.220E-13	3.670E-19-1.000E+00	8.330E-05	1.400E-08
SKIN (FGR)	1.860E-17	1.057E-13	2.220E-12	3.670E-18-1.000E+00	0.000E+00	0.000E+00

Pu-240

GONADS	6.360E-18	4.118E-14	8.649E-13	1.430E-18-1.000E+00	1.200E-05	2.640E-09
BREAST	1.230E-17	5.328E-14	1.119E-12	1.850E-18-1.000E+00	4.330E-10	1.730E-13
LUNGS	1.090E-18	2.249E-15	4.723E-14	7.810E-20-1.000E+00	3.230E-04	8.220E-14
RED MARR	1.650E-18	5.386E-15	1.131E-13	1.870E-19-1.000E+00	6.570E-05	1.410E-08
BONE SUR	9.260E-18	3.398E-14	7.137E-13	1.180E-18-1.000E+00	8.210E-04	1.760E-07
THYROID	3.920E-18	9.446E-15	1.984E-13	3.280E-19-1.000E+00	3.760E-10	7.510E-14
REMAINDER	1.960E-18	8.870E-15	1.863E-13	3.080E-19-1.000E+00	3.020E-05	2.130E-08
EFFECTIVE	4.750E-18	2.313E-14	4.857E-13	8.030E-19-1.000E+00	8.330E-05	1.400E-08
SKIN (FGR)	3.920E-17	2.644E-13	5.552E-12	9.180E-18-1.000E+00	0.000E+00	0.000E+00

Pu-241

GONADS	7.190E-20	6.653E-17	1.396E-15	2.310E-21-1.000E+00	2.760E-07	5.660E-11
BREAST	8.670E-20	7.229E-17	1.517E-15	2.510E-21-1.000E+00	2.140E-11	2.790E-15
LUNGS	6.480E-20	4.090E-17	8.584E-16	1.420E-21-1.000E+00	3.180E-06	4.480E-15
RED MARR	5.630E-20	4.003E-17	8.403E-16	1.390E-21-1.000E+00	1.430E-06	2.780E-10
BONE SUR	2.190E-19	1.385E-16	2.908E-15	4.810E-21-1.000E+00	1.780E-05	3.480E-09
THYROID	6.980E-20	4.522E-17	9.491E-16	1.570E-21-1.000E+00	9.150E-12	1.010E-15
REMAINDER	6.090E-20	4.291E-17	9.007E-16	1.490E-21-1.000E+00	6.020E-07	1.850E-10
EFFECTIVE	7.250E-20	5.558E-17	1.167E-15	1.930E-21-1.000E+00	1.340E-06	2.070E-10
SKIN (FGR)	1.170E-19	2.033E-16	4.268E-15	7.060E-21-1.000E+00	0.000E+00	0.000E+00

Am-241

GONADS	8.580E-16	9.360E-13	1.966E-11	3.250E-17-1.000E+00	3.250E-05	2.700E-07
BREAST	1.070E-15	1.014E-12	2.129E-11	3.520E-17-1.000E+00	2.670E-09	2.620E-11
LUNGS	6.740E-16	5.789E-13	1.216E-11	2.010E-17-1.000E+00	1.840E-05	3.360E-11
RED MARR	5.210E-16	4.838E-13	1.016E-11	1.680E-17-1.000E+00	1.740E-04	1.450E-06
BONE SUR	2.870E-15	2.678E-12	5.625E-11	9.300E-17-1.000E+00	2.170E-03	1.810E-05
THYROID	7.830E-16	6.365E-13	1.337E-11	2.210E-17-1.000E+00	1.600E-09	1.320E-11
REMAINDER	6.340E-16	5.933E-13	1.246E-11	2.060E-17-1.000E+00	7.820E-05	6.660E-07
EFFECTIVE	8.180E-16	7.920E-13	1.663E-11	2.750E-17-1.000E+00	1.200E-04	9.840E-07

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 631
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SKIN (FGR)	1.280E-15	2.396E-12	5.032E-11	8.320E-17	1.000E+00	0.000E+00	0.000E+00
Cm-242							
GONADS	7.830E-18	4.893E-14	1.013E-12	1.700E-18	1.000E+00	5.700E-07	5.200E-09
BREAST	1.480E-17	6.159E-14	1.275E-12	2.140E-18	1.000E+00	9.440E-10	8.950E-12
LUNGS	1.130E-18	3.022E-15	6.257E-14	1.050E-19	1.000E+00	1.550E-05	8.840E-12
RED MARR	1.890E-18	6.562E-15	1.359E-13	2.280E-19	1.000E+00	3.900E-06	3.570E-08
BONE SUR	1.060E-17	4.231E-14	8.759E-13	1.470E-18	1.000E+00	4.870E-05	4.460E-07
THYROID	4.910E-18	1.261E-14	2.610E-13	4.380E-19	1.000E+00	9.410E-10	8.820E-12
REMAINDER	2.270E-18	1.079E-14	2.235E-13	3.750E-19	1.000E+00	2.450E-06	4.020E-08
EFFECTIVE	5.690E-18	2.751E-14	5.697E-13	9.560E-19	1.000E+00	4.670E-06	3.100E-08
SKIN (FGR)	4.290E-17	2.700E-13	5.589E-12	9.380E-18	1.000E+00	0.000E+00	0.000E+00
Cm-244							
GONADS	6.900E-18	4.522E-14	9.492E-13	1.570E-18	1.000E+00	1.590E-05	1.330E-07
BREAST	1.330E-17	5.702E-14	1.197E-12	1.980E-18	1.000E+00	1.040E-09	8.820E-12
LUNGS	7.080E-19	2.592E-15	5.441E-14	9.000E-20	1.000E+00	1.930E-05	8.810E-12
RED MARR	1.460E-18	5.875E-15	1.233E-13	2.040E-19	1.000E+00	9.380E-05	7.820E-07
BONE SUR	8.820E-18	3.859E-14	8.101E-13	1.340E-18	1.000E+00	1.170E-03	9.770E-06
THYROID	4.190E-18	1.146E-14	2.406E-13	3.980E-19	1.000E+00	1.010E-09	8.440E-12
REMAINDER	1.810E-18	9.821E-15	2.062E-13	3.410E-19	1.000E+00	4.780E-05	4.150E-07
EFFECTIVE	4.910E-18	2.529E-14	5.308E-13	8.780E-19	1.000E+00	6.700E-05	5.450E-07
SKIN (FGR)	3.910E-17	2.506E-13	5.260E-12	8.700E-18	1.000E+00	0.000E+00	0.000E+00

CALCULATION NO. H21C-106

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Attachment 13.17 – MicroShield Output Files “NMP2CS[02, 08, 24, 96, &720].MSD

MicroShield 10.04
ENERCON Services, Inc.

Date	By	Checked

File Name	Run Date	Run Time	Duration
NMP2CS02.MSD	April 9, 2020	3:27:42 PM	00:00:02

Project Info

Case Title	Case 1
Description	Containment Shine Dose to CR at 2 hrs
Geometry	7 - Cylinder Volume - Side Shields

Source Dimensions

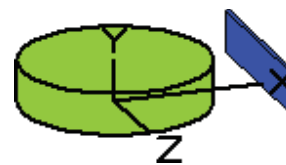
Height	1.2e+3 cm (39 ft 5.0 in)
Radius	2.7e+3 cm (88 ft)

Dose Points

A	X	Y	Z
#1	4.3e+3 cm (141 ft .0 in)	600.761 cm (19 ft 8.5 in)	0.0 cm (1 in)

Shield

Shield N	Dimension	Material	Density (g/cm ³)
Source	2.72e+10 cm ³	Air	0.00122
Transition	1495.044 cm	Air	0.00122
Shield 2	89.916 cm	Concrete	2.16
Air Gap		Air	0.00122



Source Input: Grouping Method - Standard Indices

Number of Groups: 25

Lower Energy Cutoff: 0

Photons< 0: Included

Library: Grove

Nuclide	Ci	Bq	μCi/cm ³	Bq/cm ³
Am-241	1.3185e-004	4.8785e+006	4.8552e-009	1.7964e-004
Ba-137m	2.6478e+002	9.7967e+012	9.7499e-003	3.6075e+002
Ba-139	3.7639e+001	1.3926e+012	1.3860e-003	5.1282e+001
Ba-140	9.9683e+001	3.6883e+012	3.6707e-003	1.3581e+002
Ce-141	2.3634e+000	8.7446e+010	8.7028e-005	3.2200e+000
Ce-143	2.2107e+000	8.1796e+010	8.1405e-005	3.0120e+000
Ce-144	1.8945e+000	7.0097e+010	6.9762e-005	2.5812e+000
Cm-242	3.6202e-002	1.3395e+009	1.3331e-006	4.9324e-002
Cm-244	2.3945e-003	8.8597e+007	8.8174e-008	3.2624e-003
Cs-134	3.6050e+002	1.3339e+013	1.3275e-002	4.9117e+002
Cs-136	1.0952e+002	4.0522e+012	4.0329e-003	1.4922e+002
Cs-137	2.7989e+002	1.0356e+013	1.0306e-002	3.8134e+002
I-131	1.1391e+004	4.2146e+014	4.1944e-001	1.5519e+004
I-132	1.1447e+004	4.2353e+014	4.2151e-001	1.5596e+004

CALCULATION NO. H21C-106		REV. No. 4		PAGE NO. 633
I-133	2.2246e+004	8.2311e+014	8.1918e-001	3.0310e+004
I-134	5.6115e+003	2.0762e+014	2.0663e-001	7.6454e+003
I-135	1.8221e+004	6.7416e+014	6.7094e-001	2.4825e+004
Kr-83m	3.2210e+003	1.1918e+014	1.1861e-001	4.3885e+003
Kr-85	7.7257e+002	2.8585e+013	2.8449e-002	1.0526e+003
Kr-85m	1.1216e+004	4.1499e+014	4.1301e-001	1.5281e+004
Kr-87	1.0366e+004	3.8354e+014	3.8171e-001	1.4123e+004
Kr-88	2.5714e+004	9.5142e+014	9.4688e-001	3.5034e+004
La-140	2.3450e+000	8.6765e+010	8.6351e-005	3.1950e+000
La-141	6.6060e-001	2.4442e+010	2.4326e-005	9.0004e-001
La-142	3.7523e-001	1.3884e+010	1.3817e-005	5.1124e-001
Mo-99	1.2451e+001	4.6069e+011	4.5849e-004	1.6964e+001
Nb-95	9.9345e-001	3.6758e+010	3.6582e-005	1.3535e+000
Nd-147	3.6616e-001	1.3548e+010	1.3483e-005	4.9888e-001
Np-239	2.6310e+001	9.7347e+011	9.6882e-004	3.5846e+001
Pr-143	9.0467e-001	3.3473e+010	3.3313e-005	1.2326e+000
Pr-144	1.8674e+000	6.9094e+010	6.8764e-005	2.5443e+000
Pu-238	5.8876e-003	2.1784e+008	2.1680e-007	8.0216e-003
Pu-239	5.9387e-004	2.1973e+007	2.1868e-008	8.0913e-004
Pu-240	1.0489e-003	3.8809e+007	3.8624e-008	1.4291e-003
Pu-241	2.3302e-001	8.6217e+009	8.5806e-006	3.1748e-001
Rb-86	3.5941e+000	1.3298e+011	1.3235e-004	4.8968e+000
Rb-88	2.1009e+004	7.7733e+014	7.7362e-001	2.8624e+004
Rh-103m	1.0963e+001	4.0563e+011	4.0370e-004	1.4937e+001
Rh-105	7.2757e+000	2.6920e+011	2.6792e-004	9.9129e+000
Rh-106	4.5757e+000	1.6930e+011	1.6849e-004	6.2342e+000
Ru-103	1.0992e+001	4.0670e+011	4.0476e-004	1.4976e+001
Ru-105	5.7387e+000	2.1233e+011	2.1132e-004	7.8188e+000
Ru-106	4.5757e+000	1.6930e+011	1.6849e-004	6.2342e+000
Sb-127	1.2477e+001	4.6165e+011	4.5944e-004	1.6999e+001
Sb-129	2.8392e+001	1.0505e+012	1.0455e-003	3.8683e+001
Sr-89	6.7999e+001	2.5160e+012	2.5040e-003	9.2646e+001
Sr-90	7.2826e+000	2.6946e+011	2.6817e-004	9.9223e+000
Sr-91	7.2516e+001	2.6831e+012	2.6703e-003	9.8800e+001
Sr-92	5.2089e+001	1.9273e+012	1.9181e-003	7.0969e+001
Tc-99m	1.1185e+001	4.1385e+011	4.1187e-004	1.5239e+001
Te-127	1.2505e+001	4.6269e+011	4.6048e-004	1.7038e+001
Te-127m	2.1423e+000	7.9265e+010	7.8887e-005	2.9188e+000
Te-129	3.2104e+001	1.1878e+012	1.1822e-003	4.3741e+001
Te-129m	7.0259e+000	2.5996e+011	2.5872e-004	9.5725e+000
Te-131m	2.5415e+001	9.4036e+011	9.3587e-004	3.4627e+001
Te-132	1.8762e+002	6.9419e+012	6.9088e-003	2.5563e+002
	9.4684e+004	3.5033e+015	3.4866e+000	1.2900e+005

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Xe-133m	2.9068e+003	1.0755e+014	1.0704e-001	3.9604e+003
Xe-135	4.8107e+004	1.7800e+015	1.7715e+000	6.5545e+004
Xe-135m	9.6360e+003	3.5653e+014	3.5483e-001	1.3129e+004
Xe-138	2.4236e+002	8.9673e+012	8.9245e-003	3.3021e+002
Y-90	1.3679e-001	5.0612e+009	5.0371e-006	1.8637e-001
Y-91	8.6463e-001	3.1991e+010	3.1839e-005	1.1780e+000
Y-92	9.1130e+000	3.3718e+011	3.3557e-004	1.2416e+001
Y-93	8.2980e-001	3.0703e+010	3.0556e-005	1.1306e+000
Zr-95	1.0064e+000	3.7237e+010	3.7059e-005	1.3712e+000
Zr-97	8.9515e-001	3.3121e+010	3.2962e-005	1.2196e+000

Buildup: The material reference is Shield 2.
Integration Parameters

Radial	30
Circumferential	30
Y Direction (axial)	30

Results

Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup	Absorbed Dose Rate mrad/hr No Buildup	Absorbed Dose Rate mrad/hr With Buildup	Absorbed Dose Rate mGy/hr No Buildup	Absorbed Dose Rate mGy/hr With Buildup
0.015	3.807e+14	0.000e+00	2.989e-22	0.000e+00	2.564e-23	0.000e+00	2.238e-23	0.000e+00	2.238e-25
0.02	8.175e+10	1.113e-298	1.010e-25	3.855e-300	3.499e-27	3.366e-300	3.055e-27	3.366e-302	3.055e-29
0.03	1.938e+15	2.654e-93	5.296e-21	2.630e-95	5.248e-23	2.296e-95	4.582e-23	2.296e-97	4.582e-25
0.04	3.950e+11	4.825e-48	2.862e-24	2.134e-50	1.266e-26	1.863e-50	1.105e-26	1.863e-52	1.105e-28
0.05	9.127e+11	3.297e-30	2.162e-23	8.783e-33	5.759e-26	7.667e-33	5.028e-26	7.667e-35	5.028e-28
0.06	5.324e+11	1.268e-22	6.126e-21	2.519e-25	1.217e-23	2.199e-25	1.062e-23	2.199e-27	1.062e-25
0.08	1.297e+15	1.062e-12	8.337e-11	1.680e-15	1.319e-13	1.467e-15	1.152e-13	1.467e-17	1.152e-15
0.1	2.946e+12	1.164e-12	1.914e-10	1.781e-15	2.928e-13	1.555e-15	2.556e-13	1.555e-17	2.556e-15
0.15	3.614e+14	9.700e-08	3.021e-05	1.597e-10	4.975e-08	1.395e-10	4.343e-08	1.395e-12	4.343e-10
0.2	1.892e+15	1.345e-05	4.601e-03	2.374e-08	8.120e-06	2.072e-08	7.089e-06	2.072e-10	7.089e-08
0.3	1.349e+14	5.221e-05	1.254e-02	9.903e-08	2.380e-05	8.646e-08	2.077e-05	8.646e-10	2.077e-07
0.4	6.493e+14	3.468e-03	5.351e-01	6.758e-06	1.043e-03	5.900e-06	9.101e-04	5.900e-08	9.101e-06
0.5	1.208e+15	4.515e-02	4.741e+00	8.863e-05	9.305e-03	7.737e-05	8.124e-03	7.737e-07	8.124e-05
0.6	7.484e+14	1.288e-01	9.732e+00	2.514e-04	1.900e-02	2.195e-04	1.658e-02	2.195e-06	1.658e-04
0.8	1.188e+15	2.049e+00	9.229e+01	3.897e-03	1.755e-01	3.402e-03	1.532e-01	3.402e-05	1.532e-03
1.0	5.899e+14	5.540e+00	1.688e+02	1.021e-02	3.112e-01	8.916e-03	2.717e-01	8.916e-05	2.717e-03
1.5	6.731e+14	1.078e+02	1.709e+03	1.814e-01	2.876e+00	1.584e-01	2.511e+00	1.584e-03	2.511e-02
2.0	8.716e+14	8.155e+02	8.756e+03	1.261e+00	1.354e+01	1.101e+00	1.182e+01	1.101e-02	1.182e-01
3.0	8.302e+13	6.460e+02	4.305e+03	8.764e-01	5.841e+00	7.651e-01	5.099e+00	7.651e-03	5.099e-02
4.0	3.644e+08	9.928e-03	4.949e-02	1.228e-05	6.123e-05	1.072e-05	5.345e-05	1.072e-07	5.345e-07

CALCULATION NO. H21C-106				REV. No. 4				PAGE NO. 635	
5.0	1.115e+12	7.008e+01	2.841e+02	8.033e-02	3.257e-01	7.013e-02	2.844e-01	7.013e-04	2.844e-03
Total	1.202e+16	1.647e+03	1.533e+04	2.414e+00	2.310e+01	2.107e+00	2.017e+01	2.107e-02	2.017e-01

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 636

MicroShield 10.04**ENERCON Services, Inc.****By****Checked****File Name****Run Date****Run Time****Duration**

NMP2CS08.MSD

April 9, 2020

3:36:42 PM

00:00:02

Project Info

Case Title

Case 2

Description

Containment Shine Dose to CR at 8 hrs

Geometry

7 - Cylinder Volume - Side Shields

Source Dimensions

Height

1.2e+3 cm (39 ft 5.0 in)

Radius

2.7e+3 cm (88 ft)

Dose Points**A****X****Y****Z**

#1

4.3e+3 cm (141 ft .0 in)

600.761 cm (19 ft 8.5 in)

0.0 cm (1 in)

Shield**Shield N****Dimension****Material****Density (g/cm³)**

Source

2.72e+10 cm³

Air

0.00122

Transition

1495.044 cm

Air

0.00122

Shield 2

89.916 cm

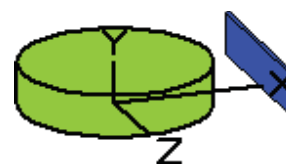
Concrete

2.16

Air Gap

Air

0.00122

**Source Input: Grouping Method - Standard Indices****Number of Groups: 25****Lower Energy Cutoff: 0****Photons< 0: Included****Library: Grove**

Nuclide	Ci	Bq	μCi/cm ³	Bq/cm ³
Am-241	9.3141e-005	3.4462e+006	3.4298e-009	1.2690e-004
Ba-137m	1.5325e+002	5.6703e+012	5.6433e-003	2.0880e+002
Ba-139	1.2985e+000	4.8045e+010	4.7815e-005	1.7692e+000
Ba-140	6.9332e+001	2.5653e+012	2.5530e-003	9.4462e+001
Ce-141	1.6591e+000	6.1387e+010	6.1094e-005	2.2605e+000
Ce-143	1.3741e+000	5.0842e+010	5.0599e-005	1.8722e+000
Ce-144	1.3349e+000	4.9391e+010	4.9155e-005	1.8188e+000
Cm-242	2.5497e-002	9.4339e+008	9.3888e-007	3.4739e-002
Cm-244	1.6882e-003	6.2463e+007	6.2165e-008	2.3001e-003
Cs-134	2.0861e+002	7.7186e+012	7.6817e-003	2.8422e+002
Cs-136	6.2556e+001	2.3146e+012	2.3035e-003	8.5230e+001
Cs-137	1.6200e+002	5.9940e+012	5.9654e-003	2.2072e+002
I-131	5.3685e+004	1.9863e+015	1.9769e+000	7.3144e+004
I-132	9.9836e+003	3.6939e+014	3.6763e-001	1.3602e+004

I-133

8.7703e+004

3.2450e+015

3.2295e+000

1.1949e+005

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I-134	2.3517e+002	8.7013e+012	8.6597e-003	3.2041e+002
I-135	4.6764e+004	1.7303e+015	1.7220e+000	6.3714e+004
Kr-83m	2.0296e+003	7.5095e+013	7.4737e-002	2.7653e+003
Kr-85	4.5547e+003	1.6852e+014	1.6772e-001	6.2056e+003
Kr-85m	2.6131e+004	9.6685e+014	9.6223e-001	3.5603e+004
Kr-87	2.3215e+003	8.5896e+013	8.5485e-002	3.1630e+003
Kr-88	3.5050e+004	1.2969e+015	1.2907e+000	4.7754e+004
La-140	8.1481e+000	3.0148e+011	3.0004e-004	1.1101e+001
La-141	1.6165e-001	5.9811e+009	5.9525e-006	2.2024e-001
La-142	1.7822e-002	6.5941e+008	6.5627e-007	2.4282e-002
Mo-99	8.2423e+000	3.0497e+011	3.0351e-004	1.1230e+001
Nb-95	7.0044e-001	2.5916e+010	2.5793e-005	9.5432e-001
Nd-147	2.5412e-001	9.4024e+009	9.3575e-006	3.4623e-001
Np-239	1.7234e+001	6.3766e+011	6.3461e-004	2.3481e+001
Pr-143	6.4797e-001	2.3975e+010	2.3860e-005	8.8284e-001
Pr-144	1.3158e+000	4.8685e+010	4.8453e-005	1.7927e+000
Pu-238	4.1512e-003	1.5359e+008	1.5286e-007	5.6559e-003
Pu-239	4.1906e-004	1.5505e+007	1.5431e-008	5.7095e-004
Pu-240	7.3950e-004	2.7362e+007	2.7231e-008	1.0075e-003
Pu-241	1.6429e-001	6.0787e+009	6.0497e-006	2.2384e-001
Rb-86	2.0611e+000	7.6261e+010	7.5897e-005	2.8082e+000
Rb-88	4.3908e+004	1.6246e+015	1.6168e+000	5.9823e+004
Rh-103m	7.6954e+000	2.8473e+011	2.8337e-004	1.0485e+001
Rh-105	4.8497e+000	1.7944e+011	1.7858e-004	6.6075e+000
Rh-106	3.2246e+000	1.1931e+011	1.1874e-004	4.3934e+000
Ru-103	7.7157e+000	2.8548e+011	2.8412e-004	1.0512e+001
Ru-105	1.5858e+000	5.8675e+010	5.8394e-005	2.1606e+000
Ru-106	3.2246e+000	1.1931e+011	1.1874e-004	4.3934e+000
Sb-127	8.4097e+000	3.1116e+011	3.0967e-004	1.1458e+001
Sb-129	7.6439e+000	2.8282e+011	2.8147e-004	1.0415e+001
Sr-89	4.7779e+001	1.7678e+012	1.7594e-003	6.5097e+001
Sr-90	5.1345e+000	1.8998e+011	1.8907e-004	6.9956e+000
Sr-91	3.3001e+001	1.2210e+012	1.2152e-003	4.4963e+001
Sr-92	7.9155e+000	2.9287e+011	2.9148e-004	1.0785e+001
Tc-99m	7.6947e+000	2.8470e+011	2.8334e-004	1.0484e+001
Te-127	8.7223e+000	3.2273e+011	3.2118e-004	1.1884e+001
Te-127m	1.5105e+000	5.5889e+010	5.5622e-005	2.0580e+000
Te-129	1.1535e+001	4.2680e+011	4.2476e-004	1.5716e+001
Te-129m	4.9427e+000	1.8288e+011	1.8201e-004	6.7343e+000
Te-131m	1.5599e+001	5.7716e+011	5.7441e-004	2.1253e+001
Te-132	1.2543e+002	4.6409e+012	4.6188e-003	1.7089e+002
	5.5902e+005	2.0684e+016	2.0585e+001	7.6164e+005
Xe-133m	1.7112e+004	6.3314e+014	6.3012e-001	2.3314e+004

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Xe-135	3.2180e+005	1.1907e+016	1.1850e+001	4.3844e+005
Xe-135m	1.3190e+004	4.8803e+014	4.8570e-001	1.7971e+004
Xe-138	3.3359e-005	1.2343e+006	1.2284e-009	4.5450e-005
Y-90	4.0415e-001	1.4954e+010	1.4882e-005	5.5064e-001
Y-91	6.5722e-001	2.4317e+010	2.4201e-005	8.9544e-001
Y-92	1.2864e+001	4.7597e+011	4.7370e-004	1.7527e+001
Y-93	3.8759e-001	1.4341e+010	1.4272e-005	5.2808e-001
Zr-95	7.0764e-001	2.6183e+010	2.6058e-005	9.6413e-001
Zr-97	4.9345e-001	1.8258e+010	1.8170e-005	6.7231e-001

Buildup: The material reference is Shield 2.
Integration Parameters

Radial	30
Circumferential	30
Y Direction (axial)	30

Results

Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup	Absorbed Dose Rate mrad/hr No Buildup	Absorbed Dose Rate mrad/hr With Buildup	Absorbed Dose Rate mGy/hr No Buildup	Absorbed Dose Rate mGy/hr With Buildup
0.015	1.606e+15	0.000e+00	1.261e-21	0.000e+00	1.082e-22	0.000e+00	9.442e-23	0.000e+00	9.442e-25
0.02	5.582e+10	7.600e-299	6.898e-26	2.632e-300	2.389e-27	2.298e-300	2.086e-27	2.298e-302	2.086e-29
0.03	1.110e+16	1.520e-92	3.032e-20	1.506e-94	3.005e-22	1.315e-94	2.624e-22	1.315e-96	2.624e-24
0.04	2.311e+11	2.822e-48	1.674e-24	1.248e-50	7.405e-27	1.090e-50	6.465e-27	1.090e-52	6.465e-29
0.05	6.102e+11	2.204e-30	1.445e-23	5.872e-33	3.851e-26	5.126e-33	3.362e-26	5.126e-35	3.362e-28
0.06	3.062e+11	7.294e-23	3.524e-21	1.449e-25	6.999e-24	1.265e-25	6.110e-24	1.265e-27	6.110e-26
0.08	7.643e+15	6.258e-12	4.913e-10	9.903e-15	7.774e-13	8.645e-15	6.787e-13	8.645e-17	6.787e-15
0.1	3.256e+12	1.287e-12	2.116e-10	1.969e-15	3.237e-13	1.719e-15	2.826e-13	1.719e-17	2.826e-15
0.15	8.075e+14	2.168e-07	6.750e-05	3.569e-10	1.112e-07	3.116e-10	9.704e-08	3.116e-12	9.704e-10
0.2	1.117e+16	7.940e-05	2.716e-02	1.401e-07	4.794e-05	1.223e-07	4.185e-05	1.223e-09	4.185e-07
0.3	3.601e+14	1.394e-04	3.349e-02	2.644e-07	6.353e-05	2.308e-07	5.546e-05	2.308e-09	5.546e-07
0.4	1.879e+15	1.004e-02	1.549e+00	1.956e-05	3.018e-03	1.708e-05	2.635e-03	1.708e-07	2.635e-05
0.5	3.511e+15	1.312e-01	1.378e+01	2.576e-04	2.704e-02	2.249e-04	2.361e-02	2.249e-06	2.361e-04
0.6	1.064e+15	1.831e-01	1.383e+01	3.573e-04	2.700e-02	3.119e-04	2.357e-02	3.119e-06	2.357e-04
0.8	1.221e+15	2.106e+00	9.485e+01	4.005e-03	1.804e-01	3.496e-03	1.575e-01	3.496e-05	1.575e-03
1.0	1.012e+15	9.509e+00	2.898e+02	1.753e-02	5.341e-01	1.530e-02	4.663e-01	1.530e-04	4.663e-03
1.5	1.326e+15	2.124e+02	3.366e+03	3.573e-01	5.664e+00	3.119e-01	4.945e+00	3.119e-03	4.945e-02
2.0	1.354e+15	1.267e+03	1.361e+04	1.960e+00	2.104e+01	1.711e+00	1.837e+01	1.711e-02	1.837e-01
3.0	6.809e+13	5.298e+02	3.531e+03	7.188e-01	4.791e+00	6.275e-01	4.182e+00	6.275e-03	4.182e-02
4.0	1.731e+07	4.715e-04	2.351e-03	5.833e-07	2.908e-06	5.093e-07	2.539e-06	5.093e-09	2.539e-08

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5.0	2.329e+12	1.465e+02	5.939e+02	1.679e-01	6.808e-01	1.466e-01	5.943e-01	1.466e-03	5.943e-03
Total	4.413e+16	2.168e+03	2.151e+04	3.226e+00	3.295e+01	2.816e+00	2.876e+01	2.816e-02	2.876e-01

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REV. No. 4

PAGE NO. 640

MicroShield 10.04**ENERCON Services, Inc.****By****Checked**

File Name	Run Date	Run Time	Duration
NMP2CS24.MSD	April 9, 2020	3:42:49 PM	00:00:02

Project Info

Case Title	Case 3
Description	Containment Shine Dose to CR at 24 hrs
Geometry	7 - Cylinder Volume - Side Shields

Source Dimensions

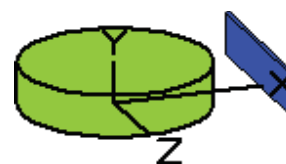
Height	1.2e+3 cm (39 ft 5.0 in)
Radius	2.7e+3 cm (88 ft)

Dose Points

A	X	Y	Z
#1	4.3e+3 cm (141 ft .0 in)	600.761 cm (19 ft 8.5 in)	0.0 cm (1 in)

Shield

Shield N	Dimension	Material	Density (g/cm ³)
Source	2.72e+10 cm ³	Air	0.00122
Transition	1495.044 cm	Air	0.00122
Shield 2	89.916 cm	Concrete	2.16
Air Gap		Air	0.00122

**Source Input: Grouping Method - Standard Indices****Number of Groups: 25****Lower Energy Cutoff: 0****Photons< 0: Included****Library: Grove**

Nuclide	Ci	Bq	μCi/cm ³	Bq/cm ³
Am-241	5.3794e-005	1.9904e+006	1.9809e-009	7.3292e-005
Ba-137m	5.1864e+001	1.9190e+012	1.9098e-003	7.0663e+001
Ba-139	2.3901e-004	8.8434e+006	8.8011e-009	3.2564e-004
Ba-140	3.8421e+001	1.4216e+012	1.4148e-003	5.2347e+001
Ce-141	9.4050e-001	3.4799e+010	3.4632e-005	1.2814e+000
Ce-143	5.6422e-001	2.0876e+010	2.0776e-005	7.6873e-001
Ce-144	7.6583e-001	2.8336e+010	2.8200e-005	1.0434e+000
Cm-242	1.4610e-002	5.4057e+008	5.3799e-007	1.9906e-002
Cm-244	9.7004e-004	3.5891e+007	3.5720e-008	1.3216e-003
Cs-134	7.0557e+001	2.6106e+012	2.5981e-003	9.6131e+001
Cs-136	2.0437e+001	7.5617e+011	7.5256e-004	2.7845e+001
Cs-137	5.4825e+001	2.0285e+012	2.0188e-003	7.4697e+001
I-131	8.2470e+004	3.0514e+015	3.0368e+000	1.1236e+005
I-132	2.0472e+002	7.5747e+012	7.5385e-003	2.7893e+002

I-133	8.3724e+004	3.0978e+015	3.0830e+000	1.1407e+005
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I-134	1.2265e-003	4.5382e+007	4.5165e-008	1.6711e-003
I-135	1.4212e+004	5.2583e+014	5.2332e-001	1.9363e+004
Kr-83m	8.9436e+000	3.3091e+011	3.2933e-004	1.2185e+001
Kr-85	7.7987e+003	2.8855e+014	2.8717e-001	1.0625e+004
Kr-85m	3.7640e+003	1.3927e+014	1.3860e-001	5.1283e+003
Kr-87	6.4839e-001	2.3990e+010	2.3876e-005	8.8341e-001
Kr-88	1.2088e+003	4.4726e+013	4.4512e-002	1.6469e+003
La-140	1.2865e+001	4.7601e+011	4.7373e-004	1.7528e+001
La-141	5.5258e-003	2.0445e+008	2.0348e-007	7.5287e-003
La-142	7.6937e-006	2.8467e+005	2.8331e-010	1.0482e-005
Mo-99	4.0037e+000	1.4814e+011	1.4743e-004	5.4549e+000
Nb-95	4.0248e-001	1.4892e+010	1.4821e-005	5.4836e-001
Nd-147	1.4001e-001	5.1804e+009	5.1556e-006	1.9076e-001
Np-239	8.1388e+000	3.0114e+011	2.9970e-004	1.1089e+001
Pr-143	3.8195e-001	1.4132e+010	1.4065e-005	5.2039e-001
Pr-144	7.5488e-001	2.7931e+010	2.7797e-005	1.0285e+000
Pu-238	2.3856e-003	8.8267e+007	8.7846e-008	3.2503e-003
Pu-239	2.4128e-004	8.9274e+006	8.8847e-009	3.2874e-004
Pu-240	4.2494e-004	1.5723e+007	1.5648e-008	5.7897e-004
Pu-241	9.4397e-002	3.4927e+009	3.4760e-006	1.2861e-001
Rb-86	6.8047e-001	2.5177e+010	2.5057e-005	9.2712e-001
Rb-88	3.6628e+003	1.3552e+014	1.3488e-001	4.9904e+003
Rh-103m	4.3704e+000	1.6170e+011	1.6093e-004	5.9545e+000
Rh-105	2.1218e+000	7.8507e+010	7.8132e-005	2.8909e+000
Rh-106	1.8506e+000	6.8472e+010	6.8145e-005	2.5214e+000
Ru-103	4.3819e+000	1.6213e+011	1.6136e-004	5.9702e+000
Ru-105	7.4960e-002	2.7735e+009	2.7603e-006	1.0213e-001
Ru-106	1.8506e+000	6.8472e+010	6.8145e-005	2.5214e+000
Sb-127	4.2859e+000	1.5858e+011	1.5782e-004	5.8394e+000
Sb-129	3.3712e-001	1.2473e+010	1.2414e-005	4.5931e-001
Sr-89	2.7205e+001	1.0066e+012	1.0018e-003	3.7066e+001
Sr-90	2.9503e+000	1.0916e+011	1.0864e-004	4.0197e+000
Sr-91	5.9009e+000	2.1833e+011	2.1729e-004	8.0398e+000
Sr-92	7.5957e-002	2.8104e+009	2.7970e-006	1.0349e-001
Tc-99m	4.0103e+000	1.4838e+011	1.4767e-004	5.4639e+000
Te-127	4.7823e+000	1.7695e+011	1.7610e-004	6.5157e+000
Te-127m	8.6778e-001	3.2108e+010	3.1955e-005	1.1823e+000
Te-129	2.9000e+000	1.0730e+011	1.0679e-004	3.9511e+000
Te-129m	2.8062e+000	1.0383e+011	1.0333e-004	3.8233e+000
Te-131m	6.1937e+000	2.2917e+011	2.2807e-004	8.4387e+000
Te-132	6.2545e+001	2.3142e+012	2.3031e-003	8.5215e+001
	9.5198e+005	3.5223e+016	3.5055e+001	1.2970e+006
Xe-133m	2.8515e+004	1.0550e+015	1.0500e+000	3.8850e+004

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Xe-135	3.4534e+005	1.2778e+016	1.2717e+001	4.7052e+005
Xe-135m	7.1092e+003	2.6304e+014	2.6179e-001	9.6861e+003
Xe-138				
Y-90	6.5800e-001	2.4346e+010	2.4230e-005	8.9650e-001
Y-91	4.0948e-001	1.5151e+010	1.5078e-005	5.5790e-001
Y-92	7.2817e-001	2.6942e+010	2.6814e-005	9.9211e-001
Y-93	7.4281e-002	2.7484e+009	2.7353e-006	1.0121e-001
Zr-95	4.0371e-001	1.4937e+010	1.4866e-005	5.5004e-001
Zr-97	1.4711e-001	5.4431e+009	5.4171e-006	2.0043e-001

Buildup: The material reference is Shield 2.
Integration Parameters

Radial	30
Circumferential	30
Y Direction (axial)	30

Results

Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup	Absorbed Dose Rate mrad/hr No Buildup	Absorbed Dose Rate mrad/hr With Buildup	Absorbed Dose Rate mGy/hr No Buildup	Absorbed Dose Rate mGy/hr With Buildup
0.015	2.365e+15	0.000e+00	1.857e-21	0.000e+00	1.593e-22	0.000e+00	1.391e-22	0.000e+00	1.391e-24
0.02	2.968e+10	4.041e-299	3.667e-26	1.400e-300	1.270e-27	1.222e-300	1.109e-27	1.222e-302	1.109e-29
0.03	1.834e+16	2.511e-92	5.011e-20	2.489e-94	4.966e-22	2.173e-94	4.336e-22	2.173e-96	4.336e-24
0.04	8.748e+10	1.068e-48	6.339e-25	4.725e-51	2.803e-27	4.125e-51	2.447e-27	4.125e-53	2.447e-29
0.05	3.043e+11	1.099e-30	7.209e-24	2.929e-33	1.920e-26	2.557e-33	1.677e-26	2.557e-35	1.677e-28
0.06	1.025e+11	2.440e-23	1.179e-21	4.847e-26	2.342e-24	4.232e-26	2.044e-24	4.232e-28	2.044e-26
0.08	1.301e+16	1.065e-11	8.360e-10	1.685e-14	1.323e-12	1.471e-14	1.155e-12	1.471e-16	1.155e-14
0.1	4.185e+11	1.654e-13	2.719e-11	2.530e-16	4.160e-14	2.209e-16	3.631e-14	2.209e-18	3.631e-16
0.15	1.439e+14	3.863e-08	1.203e-05	6.362e-11	1.981e-08	5.554e-11	1.730e-08	5.554e-13	1.730e-10
0.2	1.165e+16	8.284e-05	2.834e-02	1.462e-07	5.002e-05	1.276e-07	4.366e-05	1.276e-09	4.366e-07
0.3	2.566e+14	9.931e-05	2.386e-02	1.884e-07	4.526e-05	1.645e-07	3.951e-05	1.645e-09	3.951e-07
0.4	2.597e+15	1.387e-02	2.140e+00	2.703e-05	4.170e-03	2.360e-05	3.640e-03	2.360e-07	3.640e-05
0.5	3.016e+15	1.127e-01	1.184e+01	2.213e-04	2.323e-02	1.932e-04	2.028e-02	1.932e-06	2.028e-04
0.6	6.802e+14	1.171e-01	8.844e+00	2.285e-04	1.726e-02	1.995e-04	1.507e-02	1.995e-06	1.507e-04
0.8	3.735e+14	6.443e-01	2.902e+01	1.225e-03	5.520e-02	1.070e-03	4.819e-02	1.070e-05	4.819e-04
1.0	2.987e+14	2.805e+00	8.549e+01	5.171e-03	1.576e-01	4.515e-03	1.376e-01	4.515e-05	1.376e-03
1.5	3.727e+14	5.970e+01	9.463e+02	1.004e-01	1.592e+00	8.768e-02	1.390e+00	8.768e-04	1.390e-02
2.0	1.153e+14	1.079e+02	1.159e+03	1.669e-01	1.792e+00	1.457e-01	1.564e+00	1.457e-03	1.564e-02
3.0	4.208e+12	3.274e+01	2.182e+02	4.442e-02	2.961e-01	3.878e-02	2.585e-01	3.878e-04	2.585e-03
4.0	7.473e+03	2.036e-07	1.015e-06	2.518e-10	1.255e-09	2.198e-10	1.096e-09	2.198e-12	1.096e-11

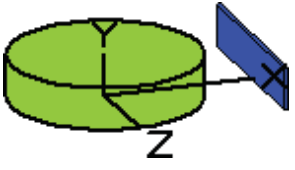
CALCULATION NO. H21C-106				REV. No. 4				PAGE NO. 643	
5.0	1.943e+11	1.222e+01	4.954e+01	1.401e-02	5.679e-02	1.223e-02	4.958e-02	1.223e-04	4.958e-04
Total	5.322e+16	2.163e+02	2.510e+03	3.326e-01	3.994e+00	2.904e-01	3.487e+00	2.904e-03	3.487e-02

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 644

MicroShield 10.04
ENERCON Services, Inc.

Date		By		Checked	
File Name		Run Date		Run Time	
NMP2CS96.MSD		April 9, 2020		3:50:10 PM	
				00:00:02	
Project Info					
Case Title		Case 4			
Description		Containment Shine Dose to CR at 96 hrs			
Geometry		7 - Cylinder Volume - Side Shields			
Source Dimensions					
Height		1.2e+3 cm (39 ft 5.0 in)			
Radius		2.7e+3 cm (88 ft)			
Dose Points					
A	X	Y	Z		
#1	4.3e+3 cm (141 ft .0 in)	600.761 cm (19 ft 8.5 in)	0.0 cm (1 in)		
Shield					
Shield N	Dimension	Material	Density (g/cm³)		
Source	2.72e+10 cm ³	Air	0.00122		
Transition	1495.044 cm	Air	0.00122		
Shield 2	89.916 cm	Concrete	2.16		
Air Gap		Air	0.00122		
					
Source Input: Grouping Method - Standard Indices Number of Groups: 25 Lower Energy Cutoff: 0 Photons< 0: Included Library: Grove					
Nuclide	Ci	Bq	μCi/cm³	Bq/cm³	
Am-241	2.2851e-005	8.4549e+005	8.4145e-010	3.1134e-005	
Ba-137m	1.5307e+001	5.6637e+011	5.6366e-004	2.0856e+001	
Ba-139					
Ba-140	1.3551e+001	5.0139e+011	4.9899e-004	1.8463e+001	
Ce-141	3.6635e-001	1.3555e+010	1.3490e-005	4.9914e-001	
Ce-143	5.1634e-002	1.9105e+009	1.9013e-006	7.0349e-002	
Ce-144	3.1567e-001	1.1680e+010	1.1624e-005	4.3009e-001	
Cm-242	5.9896e-003	2.2162e+008	2.2056e-007	8.1606e-003	
Cm-244	4.0266e-004	1.4898e+007	1.4827e-008	5.4861e-004	
Cs-134	2.0771e+001	7.6853e+011	7.6486e-004	2.8300e+001	
Cs-136	5.1474e+000	1.9045e+011	1.8954e-004	7.0131e+000	
Cs-137	1.6181e+001	5.9870e+011	5.9584e-004	2.2046e+001	
I-131	5.4144e+004	2.0033e+015	1.9938e+000	7.3769e+004	

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 645
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I-132	1.6375e+001	6.0588e+011	6.0298e-004	2.2310e+001
I-133	6.4625e+003	2.3911e+014	2.3797e-001	8.8049e+003
I-134				
I-135	6.3566e+000	2.3519e+011	2.3407e-004	8.6606e+000
Kr-83m				
Kr-85	4.1272e+003	1.5271e+014	1.5198e-001	5.6232e+003
Kr-85m	2.8942e-002	1.0709e+009	1.0657e-006	3.9432e-002
Kr-87				
Kr-88	1.4944e-005	5.5293e+005	5.5029e-010	2.0361e-005
La-140	1.1913e+001	4.4078e+011	4.3868e-004	1.6231e+001
La-141	7.0085e-009	2.5931e+002	2.5808e-013	9.5488e-009
La-142				
Mo-99	7.8045e-001	2.8877e+010	2.8739e-005	1.0633e+000
Nb-95	1.6690e-001	6.1753e+009	6.1458e-006	2.2740e-001
Nd-147	4.8104e-002	1.7798e+009	1.7714e-006	6.5540e-002
Np-239	1.3976e+000	5.1711e+010	5.1464e-005	1.9042e+000
Pr-143	1.5286e-001	5.6558e+009	5.6288e-006	2.0827e-001
Pr-144	3.1116e-001	1.1513e+010	1.1458e-005	4.2394e-001
Pu-238	9.9088e-004	3.6663e+007	3.6488e-008	1.3500e-003
Pu-239	1.0072e-004	3.7266e+006	3.7088e-009	1.3723e-004
Pu-240	1.7645e-004	6.5287e+006	6.4975e-009	2.4041e-004
Pu-241	3.9181e-002	1.4497e+009	1.4428e-006	5.3383e-002
Rb-86	1.7969e-001	6.6485e+009	6.6168e-006	2.4482e-001
Rb-88	4.5282e-005	1.6754e+006	1.6674e-009	6.1695e-005
Rh-103m	1.7211e+000	6.3679e+010	6.3375e-005	2.3449e+000
Rh-105	2.1590e-001	7.9883e+009	7.9502e-006	2.9416e-001
Rh-106	7.6409e-001	2.8271e+010	2.8136e-005	1.0410e+000
Ru-103	1.7256e+000	6.3847e+010	6.3542e-005	2.3511e+000
Ru-105	4.0884e-007	1.5127e+004	1.5055e-011	5.5703e-007
Ru-106	7.6409e-001	2.8271e+010	2.8136e-005	1.0410e+000
Sb-127	1.0369e+000	3.8365e+010	3.8182e-005	1.4127e+000
Sb-129	1.3455e-006	4.9784e+004	4.9546e-011	1.8332e-006
Sr-89	1.0841e+001	4.0112e+011	3.9920e-004	1.4770e+001
Sr-90	1.2248e+000	4.5318e+010	4.5101e-005	1.6687e+000
Sr-91	1.2815e-002	4.7416e+008	4.7189e-007	1.7460e-002
Sr-92	3.1696e-010	1.1728e+001	1.1672e-014	4.3185e-010
Tc-99m	8.0014e-001	2.9605e+010	2.9464e-005	1.0902e+000
Te-127	1.3460e+000	4.9802e+010	4.9564e-005	1.8339e+000
Te-127m	3.5819e-001	1.3253e+010	1.3190e-005	4.8802e-001
Te-129	9.4723e-001	3.5048e+010	3.4880e-005	1.2906e+000
Te-129m	1.0954e+000	4.0530e+010	4.0336e-005	1.4924e+000

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 646
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	4.8726e-001	1.8029e+010	1.7943e-005	6.6387e-001
Te-132	1.3719e+001	5.0760e+011	5.0518e-004	1.8692e+001
Xe-133	4.6383e+005	1.7162e+016	1.7080e+001	6.3195e+005
Xe-133m	1.1340e+004	4.1958e+014	4.1758e-001	1.5450e+004
Xe-135	2.5884e+003	9.5771e+013	9.5314e-002	3.5266e+003
Xe-135m	3.1610e+000	1.1696e+011	1.1640e-004	4.3067e+000
Xe-138				
Y-90	7.9148e-001	2.9285e+010	2.9145e-005	1.0784e+000
Y-91	1.7046e-001	6.3070e+009	6.2769e-006	2.3225e-001
Y-92	3.1009e-007	1.1473e+004	1.1419e-011	4.2249e-007
Y-93	2.2040e-004	8.1548e+006	8.1159e-009	3.0029e-004
Zr-95	1.6227e-001	6.0040e+009	5.9753e-006	2.2109e-001
Zr-97	3.1873e-003	1.1793e+008	1.1737e-007	4.3426e-003

Buildup: The material reference is Shield

2. Integration Parameters

Radial	30
Circumferential	30
Y Direction (axial)	30

Results

Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup	Absorbed Dose Rate mrad/hr No Buildup	Absorbed Dose Rate mrad/hr With Buildup	Absorbed Dose Rate mGy/hr No Buildup	Absorbed Dose Rate mGy/hr With Buildup
0.015	1.099e+15	0.000e+00	8.627e-22	0.000e+00	7.399e-23	0.000e+00	6.460e-23	0.000e+00	6.460e-25
0.02	8.561e+09	1.165e-299	1.058e-26	4.037e-301	3.664e-28	3.524e-301	3.199e-28	3.524e-303	3.199e-30
0.03	8.570e+15	1.174e-92	2.342e-20	1.163e-94	2.321e-22	1.015e-94	2.026e-22	1.015e-96	2.026e-24
0.04	2.420e+10	2.956e-49	1.754e-25	1.307e-51	7.755e-28	1.141e-51	6.771e-28	1.141e-53	6.771e-30
0.05	6.685e+10	2.415e-31	1.583e-24	6.432e-34	4.218e-27	5.616e-34	3.682e-27	5.616e-36	3.682e-29
0.06	2.515e+10	5.990e-24	2.893e-22	1.190e-26	5.747e-25	1.039e-26	5.017e-25	1.039e-28	5.017e-27
0.08	6.351e+15	5.200e-12	4.082e-10	8.228e-15	6.460e-13	7.183e-15	5.639e-13	7.183e-17	5.639e-15
0.1	6.055e+10	2.393e-14	3.934e-12	3.660e-17	6.018e-15	3.196e-17	5.254e-15	3.196e-19	5.254e-17
0.15	3.773e+11	1.013e-10	3.154e-08	1.668e-13	5.194e-11	1.456e-13	4.534e-11	1.456e-15	4.534e-13
0.2	1.473e+14	1.047e-06	3.583e-04	1.849e-09	6.323e-07	1.614e-09	5.520e-07	1.614e-11	5.520e-09
0.3	1.325e+14	5.130e-05	1.233e-02	9.731e-08	2.338e-05	8.495e-08	2.041e-05	8.495e-10	2.041e-07
0.4	1.628e+15	8.697e-03	1.342e+00	1.695e-05	2.614e-03	1.479e-05	2.282e-03	1.479e-07	2.282e-05
0.5	2.207e+14	8.250e-03	8.662e-01	1.619e-05	1.700e-03	1.414e-05	1.484e-03	1.414e-07	1.484e-05
0.6	1.579e+14	2.718e-02	2.053e+00	5.304e-05	4.008e-03	4.631e-05	3.499e-03	4.631e-07	3.499e-05
0.8	5.648e+13	9.741e-02	4.388e+00	1.853e-04	8.346e-03	1.617e-04	7.286e-03	1.617e-06	7.286e-05
1.0	6.267e+12	5.886e-02	1.794e+00	1.085e-04	3.306e-03	9.472e-05	2.886e-03	9.472e-07	2.886e-05
1.5	6.594e+12	1.056e+00	1.674e+01	1.777e-03	2.817e-02	1.551e-03	2.459e-02	1.551e-05	2.459e-04

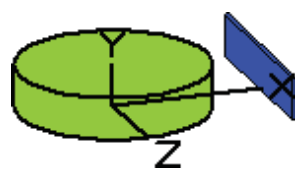
CALCULATION NO. H21C-106				REV. No. 4			PAGE NO. 647		
2.0	5.037e+10	4.713e-02	5.060e-01	7.288e-05	7.825e-04	6.362e-05	6.831e-04	6.362e-07	6.831e-06
3.0	1.570e+10	1.221e-01	8.139e-01	1.657e-04	1.104e-03	1.446e-04	9.640e-04	1.446e-06	9.640e-06
5.0	2.402e+03	1.510e-07	6.124e-07	1.731e-10	7.021e-10	1.512e-10	6.129e-10	1.512e-12	6.129e-12
Total	1.838e+16	1.426e+00	2.852e+01	2.396e-03	5.006e-02	2.091e-03	4.370e-02	2.091e-05	4.370e-04

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 648

MicroShield 10.04
ENERCON Services, Inc.

Date	By	Checked		
File Name	Run Date	Run Time	Duration	
NMP2C720.MSD	April 9, 2020	3:54:08 PM	00:00:02	
Project Info				
Case Title	Case 5			
Description	Containment Shine Dose to CR at 720 hrs			
Geometry	7 - Cylinder Volume - Side Shields			
Source Dimensions				
Height	1.2e+3 cm (39 ft 5.0 in)			
Radius	2.7e+3 cm (88 ft)			
Dose Points				
A	X	Y	Z	
#1	4.3e+3 cm (141 ft .0 in)	600.761 cm (19 ft 8.5 in)	0.0 cm (1 in)	
Shield				
Shield N	Dimension	Material	Density (g/cm³)	
Source	2.72e+10 cm ³	Air	0.00122	
Transition	1495.044 cm	Air	0.00122	
Shield 2	89.916 cm	Concrete	2.16	
Air Gap		Air	0.00122	
				
Source Input: Grouping Method - Standard Indices Number of Groups: 25 Lower Energy Cutoff: 0 Photons< 0: Included Library: Grove				
Nuclide	Ci	Bq	μCi/cm³	Bq/cm³
Am-241	2.1910e-005	8.1067e+005	8.0680e-010	2.9852e-005
Ba-137m	1.2258e+001	4.5356e+011	4.5139e-004	1.6701e+001
Ba-139				
Ba-140	2.6425e+000	9.7773e+010	9.7306e-005	3.6003e+000
Ce-141	1.6884e-001	6.2471e+009	6.2173e-006	2.3004e-001
Ce-143	8.4163e-008	3.1140e+003	3.0992e-012	1.1467e-007
Ce-144	2.3774e-001	8.7964e+009	8.7544e-006	3.2391e-001
Cm-242	4.3030e-003	1.5921e+008	1.5845e-007	5.8627e-003
Cm-244	3.2220e-004	1.1921e+007	1.1864e-008	4.3899e-004
Cs-134	1.6267e+001	6.0188e+011	5.9901e-004	2.2163e+001
Cs-136	1.0432e+000	3.8598e+010	3.8414e-005	1.4213e+000
Cs-137	1.2958e+001	4.7945e+011	4.7716e-004	1.7655e+001
I-131	6.8808e+002	2.5459e+013	2.5337e-002	9.3748e+002

CALCULATION NO. H21C-106		REV. No. 4		PAGE NO. 649
I-132	5.2057e-002	1.9261e+009	1.9169e-006	7.0926e-002
I-133	7.1953e-007	2.6623e+004	2.6496e-011	9.8033e-007
I-134				
I-135				
Kr-83m				
Kr-85	3.2970e+003	1.2199e+014	1.2141e-001	4.4920e+003
Kr-85m				
Kr-87				
Kr-88				
La-140	3.0695e+000	1.1357e+011	1.1303e-004	4.1821e+000
La-141				
La-142				
Mo-99	8.9255e-004	3.3024e+007	3.2867e-008	1.2161e-003
Nb-95	1.2474e-001	4.6154e+009	4.5933e-006	1.6995e-001
Nd-147	7.4774e-003	2.7666e+008	2.7534e-007	1.0188e-002
Np-239	5.3246e-004	1.9701e+007	1.9607e-008	7.2546e-004
Pr-143	3.3709e-002	1.2472e+009	1.2413e-006	4.5927e-002
Pr-144	2.3434e-001	8.6706e+009	8.6292e-006	3.1928e-001
Pu-238	7.9719e-004	2.9496e+007	2.9355e-008	1.0861e-003
Pu-239	8.1114e-005	3.0012e+006	2.9869e-009	1.1051e-004
Pu-240	1.4160e-004	5.2392e+006	5.2142e-009	1.9292e-004
Pu-241	3.1335e-002	1.1594e+009	1.1539e-006	4.2693e-002
Rb-86	5.4869e-002	2.0302e+009	2.0205e-006	7.4757e-002
Rb-88				
Rh-103m	8.7285e-001	3.2295e+010	3.2141e-005	1.1892e+000
Rh-105	8.4401e-007	3.1228e+004	3.1079e-011	1.1499e-006
Rh-106	5.8382e-001	2.1601e+010	2.1498e-005	7.9543e-001
Ru-103	8.7515e-001	3.2381e+010	3.2226e-005	1.1924e+000
Ru-105				
Ru-106	5.8382e-001	2.1601e+010	2.1498e-005	7.9543e-001
Sb-127	7.7129e-003	2.8538e+008	2.8401e-007	1.0509e-002
Sb-129				
Sr-89	6.0877e+000	2.2524e+011	2.2417e-004	8.2943e+000
Sr-90	9.8112e-001	3.6301e+010	3.6128e-005	1.3367e+000
Sr-91				
Sr-92				
Tc-99m	9.1508e-004	3.3858e+007	3.3696e-008	1.2468e-003
Te-127	2.6057e-001	9.6411e+009	9.5951e-006	3.5502e-001
Te-127m	2.4821e-001	9.1838e+009	9.1399e-006	3.3818e-001
Te-129	4.4453e-001	1.6448e+010	1.6369e-005	6.0566e-001
Te-129m	5.1408e-001	1.9021e+010	1.8930e-005	7.0042e-001

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	2.1415e-007	7.9236e+003	7.8857e-012	2.9177e-007
Te-132	4.3613e-002	1.6137e+009	1.6060e-006	5.9421e-002
Xe-133	8.6119e+003	3.1864e+014	3.1712e-001	1.1733e+004
Xe-133m	1.4260e+000	5.2762e+010	5.2510e-005	1.9429e+000
Xe-135				
Xe-135m				
Xe-138				
Y-90	9.8628e-001	3.6492e+010	3.6318e-005	1.3438e+000
Y-91	1.0054e-001	3.7200e+009	3.7022e-006	1.3698e-001
Y-92				
Y-93				
Zr-95	9.8240e-002	3.6349e+009	3.6175e-006	1.3385e-001
Zr-97				

Buildup: The material reference is Shield 2.

Integration Parameters

Radial	30
Circumferential	30
Y Direction (axial)	30

Results

Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup	Absorbed Dose Rate mrad/hr No Buildup	Absorbed Dose Rate mrad/hr With Buildup	Absorbed Dose Rate mGy/hr No Buildup	Absorbed Dose Rate mGy/hr With Buildup
0.015	1.974e+13	0.000e+00	1.550e-23	0.000e+00	1.330e-24	0.000e+00	1.161e-24	0.000e+00	1.161e-26
0.02	2.769e+09	3.770e-300	3.422e-27	1.306e-301	1.185e-28	1.140e-301	1.035e-28	1.140e-303	1.035e-30
0.03	1.541e+14	2.111e-94	4.212e-22	2.092e-96	4.174e-24	1.826e-96	3.644e-24	1.826e-98	3.644e-26
0.04	1.118e+10	1.365e-49	8.100e-26	6.039e-52	3.583e-28	5.272e-52	3.128e-28	5.272e-54	3.128e-30
0.05	3.325e+08	1.201e-33	7.876e-27	3.200e-36	2.098e-29	2.793e-36	1.832e-29	2.793e-38	1.832e-31
0.06	4.862e+09	1.158e-24	5.594e-23	2.300e-27	1.111e-25	2.008e-27	9.700e-26	2.008e-29	9.700e-28
0.08	1.176e+14	9.629e-14	7.559e-12	1.524e-16	1.196e-14	1.330e-16	1.044e-14	1.330e-18	1.044e-16
0.1	6.263e+08	2.475e-16	4.070e-14	3.787e-19	6.226e-17	3.306e-19	5.435e-17	3.306e-21	5.435e-19
0.15	1.648e+10	4.425e-12	1.378e-09	7.286e-15	2.269e-12	6.361e-15	1.981e-12	6.361e-17	1.981e-14
0.2	3.071e+11	2.183e-09	7.467e-07	3.853e-12	1.318e-09	3.364e-12	1.151e-09	3.364e-14	1.151e-11
0.3	1.716e+12	6.642e-07	1.596e-04	1.260e-09	3.027e-07	1.100e-09	2.643e-07	1.100e-11	2.643e-09
0.4	2.067e+13	1.104e-04	1.704e-02	2.152e-07	3.319e-05	1.878e-07	2.898e-05	1.878e-09	2.898e-07
0.5	7.424e+11	2.775e-05	2.913e-03	5.446e-08	5.718e-06	4.754e-08	4.992e-06	4.754e-10	4.992e-08
0.6	3.051e+12	5.251e-04	3.967e-02	1.025e-06	7.743e-05	8.948e-07	6.760e-05	8.948e-09	6.760e-07
0.8	1.113e+12	1.919e-03	8.644e-02	3.650e-06	1.644e-04	3.186e-06	1.435e-04	3.186e-08	1.435e-06
1.0	6.894e+10	6.475e-04	1.973e-02	1.194e-06	3.637e-05	1.042e-06	3.175e-05	1.042e-08	3.175e-07
1.5	1.272e+11	2.038e-02	3.231e-01	3.429e-05	5.436e-04	2.994e-05	4.745e-04	2.994e-07	4.745e-06

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2.0	1.097e+09	1.026e-03	1.102e-02	1.587e-06	1.704e-05	1.385e-06	1.487e-05	1.385e-08	1.487e-07
3.0	4.044e+09	3.146e-02	2.097e-01	4.269e-05	2.845e-04	3.727e-05	2.484e-04	3.727e-07	2.484e-06
Total	3.193e+14	5.610e-02	7.097e-01	8.470e-05	1.163e-03	7.395e-05	1.015e-03	7.395e-07	1.015e-05

Attachment 13.18 - RADTRAD Error Notices

RADTRAD Error Notice Number	Error Description	Discussion
1	When a user runs requests that a control room be added to the dose model the GUI will generate a default breathing rate. If the user has previously specified a delay time, then the default time versus breathing rate table has incorrect time values (they are not updated). The end result is that RADTRAD will not execute (the code crashes).	The control room model has the correct breathing rate and the code executes as intended.
2	Calculation to determine the Worst 2-hour EAB dose can exceed array length in at least one case. The resulting overwrite causes an incorrect value of the time to be reported by the code. This does not result in erroneous dose values.	The dose values reports are not impacted.
3	When a user runs the GUI version through the acceptance test case sequence, some results are different from those calculated by the batch version. For example test case 14 after test case 13 will have additional time periods edited, dose results are not affected.	This error does not impact code results.
4	When a user runs the GUI version through the acceptance test case sequence, some results are different from those calculated by the batch version. For example test case 1a after test case 19 will have an incorrect value for the worst 2 hour EAB dose. The edited value at 2 hours is correct.	This error does not impact code results.
5	When a user chooses the Powers deposition models (either sprays or natural decontamination) they go to the Aerosol Model Screen. The GUI indicates that the percentile option has been initialized, but is not and results in a termination when the calculate button is initiated.	This error does not impact code results.
7	The addition of offsite dose calculations to the control room dose calculation reduced the control room dose by a factor of 2.	The control room χ/Q time steps align with the other dose locations. No impact on results.

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RADTRAD Error Notice Number	Error Description	Discussion
8	Unknown to the user, the RADTRAD 3.03 GUI automatically modifies any compartment, using Powers' Natural Deposition, to the "PWR Design Basis" containment model, whenever the panel for that given compartment is opened. Therefore, the compartment panel cannot be viewed without one having to return the selection to whatever containment model that the user desired. (Mscisz) The program has a case set-up screen for options where the user selects the reactor type to determine fission product species for the event and a separate selection of the Powers aerosol decontamination factor. Normally if a case is created, saved, and then executed the selected options are used. If a case is re-opened, to check or correct the data inputs for example, the program automatically resets the options to PWR - DBA and 10th percentile Powers aerosol decontamination factor. If the case is then run without checking these options then the case is executed with the defaults.(Re)	The Powers' natural deposition model is not used.
9	Do you know of any previously reported error in RADTRAD associated with the use of all 10 Volumes? Two of us have separately run into problems when specifying a 10th volume in two separate models. It seems that when the 10th volume is specified, it somehow alters the source term associated with Volume #1.	Nine compartments are used and this error was not experienced during model creation.
10	When running RADTRAD with reduced time steps the code generates different inventories for some nuclides	The code is run with the acceptable time step of 0.1 hour in the first time period as discussed in the error notice.
11	When running RADTRAD with only Tellurium nuclides why is the concentration of iodine daughters so low?	RADTRAD runs with only Tellurium nuclides are not made.
12	When running RADTRAD with Powers' Natural Deposition model, the code generates inventories at 24 hours that may vary by as much as 2% when I add time intervals.	The Powers' natural deposition model is not used.
13	When running RADTRAD with abrupt flow changes the user can affect dose results by changing the time steps. For example, flow out a PORV is stopped after a few minutes and then that flow is re-directed to a secondary containment. If the time steps are uncontrolled, excessive release from the secondary can occur. This significantly affects the results from TID source terms.	The RADTRAD model includes flow changes but time steps are adequate to minimize the effects on the results. Any effects of this error are in the conservative direction, so no negative impact on results.
14	When using the Powers' spray model the use of an $\alpha = 1$ (total compartment is sprayed) is inconsistent with the Powers' model as developed in NUREG/CR-5966 and as implemented in RADTRAD.	The Powers' spray model is not used.

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RADTRAD Error Notice Number	Error Description	Discussion
15	When using the natural deposition User input option, if the User does not specify a set of aerosol deposition values the code fails.	Natural deposition is not used.
16	<p>RADTRAD has the capability to analyze the decay of radionuclides from the time of shutdown. The ability was first implemented in version 2.02 with full implementation in version 3.02 and additional modification to allow multiple source term compartments was implemented in version 3.03. All options were separate effects tested in version 3.03. This program error was found to only occur if the user selects: (1) a timed release, i.e. TIO and puff releases (as in a fuel handling or main steam line break scenario) are not affected, (2) more than one compartment receives a part of the released radionuclides (common in sprayed containments), and (3) radionuclide decay. The combination of timed release, decay, and multiple compartments was not correctly implemented; instead the initial fuel inventory is decayed each time a source compartment is entered.</p> <p>This error means that the nuclides available for release will be reduced. If the user has two source term compartments the radionuclides available for release at 1 hour is reduced to 58% of what is correct and when there are 3 source term compartments to approximately 34% - this is non-conservative.</p>	More than one compartment does not receive the release.
17	RADTRAD has the capability for removing aerosols due to natural deposition. In the implementation of the Powers model the code assigned a removal coefficient of 0.01 to be used beyond the end of the approximately one day correlation, it should have been 0.0. This allows more particulate to be deposited within the compartment, thus less is available for release to the environment.	The Powers' natural deposition model is not used.
18	<p>1. If the user selects the user-defined coefficients Natural Deposition Aerosol Model, no values of deposition lambda or decontamination factor are included in the output file even if the show results control option to include runtime model information is enabled. Furthermore, in RADTRAD 3.10 only, if the user selects the Henry natural deposition model with runtime model information requested, the output is mislabeled as "user removal coefficients" instead of "Henry's correlation."</p> <p>2. According to Section 2.3.2 of the Alion-RADTRAD 3.10 User's Manual (ALION-UGMRADTRAD- 2408-02), "It is not consistent to select both Sprays and Natural Deposition to be active at the same time in the</p>	Natural deposition coefficients are not used in the model. Therefore, there is no impact on results.

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RADTRAD Error Notice Number	Error Description	Discussion
	<p>same compartment.” However, the RADTRAD software allows users to model both Sprays and Natural Deposition in the same compartment without a warning or error statement. Furthermore, when the user selects both Sprays and Natural Deposition for a single compartment with the control option to show results – include runtime model information enabled, the values of deposition lambda for the Sprays model may be erroneously reported as the deposition lambda values for Natural Deposition in addition to Sprays. Also note that the reported decontamination factors are for each individual model and may be difficult to interpret. The decontamination factor for Sprays is the amount of a transport group’s radionuclides in the sump pool and containment atmosphere divided by just what is in the containment atmosphere. Similarly, the decontamination factor for Natural Deposition is the amount of a transport group’s radionuclides deposited on surfaces and in the containment atmosphere divided by what is in the containment atmosphere. Since both removal models deplete the containment atmosphere source term, the decontamination factors reported will be greater than if only a single model was used. In order to calculate a combined decontamination factor, the values for Sprays and Natural Deposition should be added together and then a value of 1.0 should be subtracted. The user must ensure that undue credit for radionuclide removal is not taken by implementing both Sprays and Natural Deposition.</p>	

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Attachment 13.19 – Evaluation of RAI-4

4. In Attachment 1, page 5 of the LAR the licensee states:

The 20-group probabilistic distribution methodology has been previously approved at Clinton (Reference 10), Limerick (Reference 11), and LaSalle (Reference 12) [Adams Accession Nos. ML052570461, ML062210214, and ML101750625, respectively].

The NRC staff notes that the cited precedents included a ruptured main steam line (MSL) to maximize the dose consequences from MSIV leakage. Appendix A of AEB-98-03 included this assumption as shown below:

The staff's well-mixed deposition model assumes that each segment of piping in the RADTRAD nodalization is well-mixed. The unbroken main steam lines in the RADTRAD nodalization are modeled as two segments. The first segment is the length of piping between the reactor vessel and the first MSIV. The second segment is the length of piping between the first MSIV and the second MSIV. The broken main steam line is modeled as one segment of piping. This segment is the length of piping between the first MSIV and the second MSIV.

The licensee addressed this issue in Attachment 1, page 8 of the LAR which states:

All MSLs in the MSIV leakage release pathways are seismically designed and supported to withstand the Safe Shutdown Earthquake (SSE) and thereby comply with RG 1.183, Appendix A, Section 6.5 requirement. The recirculation line break is the limiting event for fuel failure. It is not credible to assume two initiating limiting events, a recirculation line break and a break on the main steam line in a single design basis event.

All four MSL headers are Seismic I and QA Cat 1 from the RPV nozzle to seismic boundary break at the TSV [turbine stop valve]; therefore, they are qualified to withstand the SSE, and they comply with the RG 1.183, Appendix A, Section 6.5 requirement to be credited for aerosol deposition. Therefore, the MSIV leakage pathway boundary is extended up to the TSV.

The NRC notes that while it is true that mechanistically a recirculation line break would be expected to present a more significant challenge to the reactor core than a ruptured MSL, the source term used to satisfy 10 CFR 50.67 is a deterministic source term imposed on the facility to test the ability of systems to mitigate the releases sufficiently to meet predetermined acceptance criteria. Assuming a ruptured MSL in the evaluation of the acceptability of MSIV leakage criteria fulfills the underlying guidance from RG 1.183 that assumptions should be selected with the objective of maximizing the postulated radiological consequences.

The NRC staff notes that the integrity of the entire reactor coolant pressure boundary must comply with SSE requirements to satisfy Appendix A to Part 100. The assumption of a ruptured MSL for evaluating MSIV leakage in conjunction with a deterministic source does not imply a ruptured MSL in addition to a recirculation line rupture. Rather the evaluation assumes a ruptured MSL (with a deterministic source term) to maximize the dose contribution from MSIV leakage.

Please provide additional information to justify that assuming a recirculation line rupture instead of a main steam line rupture is consistent with the guidance from RG 1.183 that assumptions should be selected with the objective of maximizing the postulated radiological consequences.

Response to RAI-4

The current MSL model in the Revision 4 LOCA analysis conservatively only models two MSLs; an intact MSL and an MSL with a failed MSIV. The model in the base calculation used a total of 200 scfh MSIV leakage which was assumed to be distributed in the following manner:

1. MSL with a Failed MSIV:
 - MSIV leakage is 100 scfh.
 - Horizontal piping surface area and volume of the MSL upstream of the outboard MSIV are credited for aerosol deposition. One well-mixed volume (V_1) is between the RPV Nozzle and outboard MSIV.
 - Horizontal piping surface area and volume of the MSL between the outboard MSIV and TSV are credited for aerosol deposition. A second well-mixed volume (V_2) is between the outboard MSIV and TSV.
 - The airborne elemental iodine in this release path is assumed to be 50% in one pathway per steam line as in the CLB.
 - No credit is taken for a holdup time in the MSL V_1 .
2. First Shortest Intact MSL:
 - MSIV leakage is 100 scfh
 - Horizontal piping surface area and volume of the MSL between the RPV Nozzle and the inboard MSIV are credited for aerosol deposition. One well-mixed volume (V_3) is between the RPV Nozzle and inboard MSIV.
 - Horizontal piping surface area and volume of the MSL between the inboard MSIVs and TSV are credited for aerosol deposition. A second well-mixed (V_4) is between the inboard MSIV and TSV.
 - The airborne elemental iodine in this release path is assumed to be 50% in one pathway per steam line as in the CLB.
 - No credit is taken for a holdup time in the intact MSLs.
3. Second Shortest Intact MSL
 - 0 scfh through the third MSL is assumed.
4. Third Shortest Intact MSL
 - 0 scfh through the fourth MSL is assumed.

To evaluate the consequences of a rupture of a MSL, new models of the MSLs were developed. Each main steam line (A, B, C, and D) was modeled in a separate RADTRAD input file. The model for each steam line consists of three nodes; 1) the steam line between the RPV nozzle and the inboard MSIV, V_1 , 2) the steam line between the MSIVs, V_2 , and 3) the steam line from the outboard MSIV to the TSV, V_3 . For the MSL assumed to have a rupture, no credit was taken for holdup in the broken inboard steam line (V_1) by setting the volume to 1 ft³. Also, for this broken line, no credit for aerosol iodine deposition was taken upstream of the inboard MSIV, which implies that the break is at the inboard MSIV. The flow in each of the four MSLs was assumed to be 50 cfh in accordance with the proposed Technical Specification revision. The model and parameter changes necessary to address the NRC RAI are presented in the following sections.

The volume and surface areas for each MSL are taken from H21C-093, Rev. 0, "LOCA Bypass Piping Models for Alternative Source Term Methodology (AST)," Reference 9.10. These volumes and areas are given below. For the horizontal areas in the below table, the horizontal areas from Reference 9.10 were divided by π so that the area given is just the diameter times the length.

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Aerosol Horizontal Settling Surface Area and Volume

Main Steam Piping Segment	Horizontal		Vertical Volume C ft ³	Total Volume D = B+C ft ³
	Area A ft ²	Volume B ft ³		

Main Steam Line A

RPV Nozzle to Inboard MSIV	77.96	119.82	211.47	331.29
Volume Between MSIVs	38.65	59.39	0.00	59.39
Outboard MSIV to Cat 1 TSV	164.35	271.38	157.03	428.41

Main Steam Line B

RPV Nozzle to Inboard MSIV	92.67	142.42	217.14	359.56
Volume Between MSIVs	42.59	65.45	0.00	65.45
Outboard MSIV to Cat 1 TSV	164.43	271.53	156.63	428.16

Main Steam Line C

RPV Nozzle to Inboard MSIV	92.84	142.68	217.27	359.95
Volume Between MSIVs	42.74	65.69	0.00	65.69
Outboard MSIV to Cat 1 TSV	164.32	271.35	156.70	428.05

Main Steam Line D

RPV Nozzle to Inboard MSIV	78.08	119.99	211.82	331.81
Volume Between MSIVs	38.56	59.27	0.00	59.27
Outboard MSIV to Cat 1 TSV	164.30	271.31	156.45	427.76

Flows for each main steam line are:

Total MSIV Leakage = 200 scfh (50 scfh per line)

MSLs A, B, C, & D

Post-LOCA Time Interval (hr)	MSIV Leak Rate from DW To Various MSL Control Volumes (cfh)/(cfm)		
	Drywell to MSL V1	MSL Volume V1 to V2 to V3	MSL Volume V3 to Environment to Atmosphere
	cfh/cfm	cfh/cfm	cfh/cfm
0-24	20.28	20.28	50.00
	0.338	0.338	0.833
24-720	10.14	10.14	25.00
	0.169	0.169	0.417

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The aerosol removal efficiencies were calculated as follows:

Removal Efficiency			MSL A	Removal Efficiency			MSL B
MSL A Inboard V1 Ci	MSL A Between MSIVs V2	MSL A Outboard V3	Net Release Fraction	MSL B Inboard V1	MSL B Between MSIVs V2	MSL B Outboard V3	Net Release Fraction
84.16%	72.48%	81.96%	7.87E-07	86.33%	74.37%	81.96%	6.32E-07
85.80%	74.97%	83.78%	1.67E-05	87.78%	76.75%	83.79%	1.34E-05
88.30%	78.90%	86.58%	2.32E-05	89.97%	80.47%	86.58%	1.84E-05
89.92%	81.56%	88.41%	4.31E-05	91.38%	82.98%	88.42%	3.40E-05
91.93%	84.96%	90.69%	2.26E-05	93.12%	86.16%	90.69%	1.77E-05
93.09%	86.97%	92.01%	2.16E-05	94.12%	88.04%	92.01%	1.68E-05
94.22%	88.99%	93.30%	8.53E-06	95.09%	89.90%	93.31%	6.63E-06
94.77%	89.99%	93.94%	1.58E-05	95.57%	90.83%	93.95%	1.23E-05
95.76%	91.80%	95.07%	8.57E-06	96.41%	92.50%	95.08%	6.64E-06
96.47%	93.12%	95.89%	4.99E-06	97.01%	93.72%	95.90%	3.85E-06
96.99%	94.11%	96.50%	3.10E-06	97.46%	94.63%	96.50%	2.39E-06
97.39%	94.88%	96.96%	2.03E-06	97.80%	95.33%	96.97%	1.56E-06
97.74%	95.54%	97.36%	1.33E-06	98.09%	95.93%	97.36%	1.02E-06
98.02%	96.09%	97.70%	8.89E-07	98.33%	96.44%	97.70%	6.83E-07
98.25%	96.53%	97.96%	6.21E-07	98.52%	96.84%	97.96%	4.77E-07
98.43%	96.89%	98.17%	8.92E-07	98.68%	97.17%	98.17%	6.84E-07
98.71%	97.44%	98.50%	4.96E-07	98.91%	97.67%	98.50%	3.80E-07
98.96%	97.93%	98.79%	2.61E-07	99.13%	98.12%	98.79%	2.00E-07
99.16%	98.32%	99.02%	1.38E-07	99.29%	98.48%	99.02%	1.05E-07
99.37%	98.74%	99.26%	5.83E-08	99.47%	98.85%	99.27%	4.46E-08
Total			1.76E-04	Total			1.38E-04
MSL A Effective Removal Efficiency			99.98%	MSL B Effective Removal Efficiency			99.99%

Removal Efficiency			MSL C	Removal Efficiency			MSL D
MSL C Inboard V1	MSL C Between MSIVs V2	MSL C Outboard V3	Net Release Fraction	MSL D Inboard V1	MSL D Between MSIVs V2	MSL D Outboard V3	Net Release Fraction
86.35%	74.44%	81.95%	6.30E-07	84.18%	72.43%	81.95%	7.87E-07
87.80%	76.81%	83.78%	1.33E-05	85.82%	74.93%	83.78%	1.67E-05
89.98%	80.53%	86.58%	1.83E-05	88.31%	78.87%	86.57%	2.32E-05
91.40%	83.03%	88.41%	3.38E-05	89.93%	81.53%	88.41%	4.31E-05
93.13%	86.20%	90.69%	1.76E-05	91.94%	84.93%	90.69%	2.26E-05
94.13%	88.07%	92.01%	1.68E-05	93.10%	86.95%	92.01%	2.16E-05
95.10%	89.93%	93.30%	6.61E-06	94.23%	88.96%	93.30%	8.53E-06
95.58%	90.86%	93.94%	1.22E-05	94.78%	89.97%	93.94%	1.59E-05
96.41%	92.52%	95.07%	6.61E-06	95.76%	91.78%	95.07%	8.58E-06
97.02%	93.74%	95.89%	3.83E-06	96.47%	93.11%	95.89%	4.99E-06
97.46%	94.65%	96.50%	2.38E-06	97.00%	94.10%	96.50%	3.10E-06
97.80%	95.35%	96.96%	1.55E-06	97.40%	94.87%	96.96%	2.03E-06
98.09%	95.95%	97.36%	1.02E-06	97.74%	95.53%	97.36%	1.33E-06
98.34%	96.45%	97.70%	6.80E-07	98.03%	96.08%	97.70%	8.90E-07
98.52%	96.85%	97.96%	4.75E-07	98.25%	96.52%	97.96%	6.22E-07
98.68%	97.18%	98.17%	6.81E-07	98.43%	96.88%	98.17%	8.93E-07
98.92%	97.68%	98.50%	3.78E-07	98.71%	97.43%	98.50%	4.96E-07
99.13%	98.12%	98.79%	1.99E-07	98.96%	97.92%	98.79%	2.61E-07
99.30%	98.48%	99.02%	1.05E-07	99.16%	98.32%	99.02%	1.38E-07
99.47%	98.86%	99.26%	4.44E-08	99.37%	98.74%	99.26%	5.84E-08
Total			1.37E-04	Total			1.76E-04
MSL C Effective Removal Efficiency			99.99%	MSL D Effective Removal Efficiency			99.98%

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Two cases were evaluated; a break in MSL A and a break in MSL B. For these cases, aerosol removal and holdup by the piping inside containment is not credited. For these cases, the aerosol removal for MSL A and B is given below.

Removal Efficiency			MSL A
MSL A	MSL A	MSL A	Net Release
Inboard V1	Between MSIVs V2	Outboard V3	Fraction
Ci			
0.00%	72.48%	81.96%	4.97E-06
0.00%	74.97%	83.78%	1.18E-04
0.00%	78.90%	86.58%	1.98E-04
0.00%	81.56%	88.41%	4.27E-04
0.00%	84.96%	90.69%	2.80E-04
0.00%	86.97%	92.01%	3.12E-04
0.00%	88.99%	93.30%	1.48E-04
0.00%	89.99%	93.94%	3.03E-04
0.00%	91.80%	95.07%	2.02E-04
0.00%	93.12%	95.89%	1.41E-04
0.00%	94.11%	96.50%	1.03E-04
0.00%	94.88%	96.96%	7.77E-05
0.00%	95.54%	97.36%	5.89E-05
0.00%	96.09%	97.70%	4.50E-05
0.00%	96.53%	97.96%	3.55E-05
0.00%	96.89%	98.17%	5.69E-05
0.00%	97.44%	98.50%	3.85E-05
0.00%	97.93%	98.79%	2.51E-05
0.00%	98.32%	99.02%	1.64E-05
0.00%	98.74%	99.26%	9.27E-06

Total 2.60E-03

MSL A Effective Removal Efficiency 99.74%

Removal Efficiency			MSL B
MSL B	MSL B	MSL B	Net Release
Inboard V1	Between MSIVs V2	Outboard V3	Fraction
Ci			
0.00%	74.37%	81.96%	4.62E-06
0.00%	76.75%	83.79%	1.09E-04
0.00%	80.47%	86.58%	1.83E-04
0.00%	82.98%	88.42%	3.94E-04
0.00%	86.16%	90.69%	2.58E-04
0.00%	88.04%	92.01%	2.87E-04
0.00%	89.90%	93.31%	1.35E-04
0.00%	90.83%	93.95%	2.78E-04
0.00%	92.50%	95.08%	1.85E-04
0.00%	93.72%	95.90%	1.29E-04
0.00%	94.63%	96.50%	9.39E-05
0.00%	95.33%	96.97%	7.08E-05
0.00%	95.93%	97.36%	5.36E-05
0.00%	96.44%	97.70%	4.10E-05
0.00%	96.84%	97.96%	3.23E-05
0.00%	97.17%	98.17%	5.18E-05
0.00%	97.67%	98.50%	3.50E-05
0.00%	98.12%	98.79%	2.28E-05
0.00%	98.48%	99.02%	1.49E-05
0.00%	98.85%	99.27%	8.42E-06

Total 2.39E-03

MSL B Effective Removal Efficiency 99.76%

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Results

The above changes to the RADTRAD model give the following results:

NMP2 Post-LOCA - Total MSIV Leak Rate of 200 scfh

Post-LOCA Release Pathway	Post-LOCA TEDE Dose (Rem) EAB	Post-LOCA TEDE Dose (Rem) LPZ	Post-LOCA TEDE Dose (Rem) CR
MSIV Leakage (Base Case)	0.14	0.18	0.62

Break in MSL A			
MSIV A (MSLB)	0.042	0.051	0.178
MSIV B Leakage	0.012	0.021	0.075
MSIV C Leakage	0.012	0.021	0.074
MSIV D Leakage	0.013	0.022	0.078
Total	0.08	0.11	0.40

RADTRAD Output Files

MSIV Leakage (Base Case)	NMP2MS01.o0
MSIV Leakage - MSL A	NMP2 MSL A MSLB.out
MSIV Leakage - MSL B	NMP2 MSL B.out
MSIV Leakage - MSL C	NMP2 MSL C.out
MSIV Leakage - MSL D	NMP2 MSL D.out

Break in MSL B			
MSIV A Leakage	0.013	0.022	0.078
MSIV B (MSLB)	0.041	0.050	0.173
MSIV C Leakage	0.012	0.021	0.074
MSIV D Leakage	0.013	0.022	0.078
Total	0.08	0.11	0.40

RADTRAD Output Files

MSIV Leakage - MSL A	NMP2 MSL A.out
MSIV Leakage - MSL B	NMP2 MSL B MSLB.out
MSIV Leakage - MSL C	NMP2 MSL C.out
MSIV Leakage - MSL D	NMP2 MSL D.out

Conclusion

The more detailed model, which includes modeling of a MSL break, results in lower doses compared to the base case. Assuming the main steam line break is in MSL A or MSL B gives the same dose results. In both cases, the dose is bounded by the base case results. Consideration of a more realistic break location other than assuming a break at the MSIV would result in much lower doses for the MSLB cases. The base case provides more conservative results than consideration of a MSLB with more detailed steam line modeling.

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RADTRAD output files for RAI-4**NMP2 MSL A.out**

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:29:53
#####
```

```
#####
File information
#####
```

```
Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2 MSL A.psf
Inventory file  = c:\radtrad3.03\nmp2\nmp2.nif
Release file    = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      # #      # #####      # #      #####
# # #      # #      # ##      # #      # #      # #
# # #      # #      # # #      # #      # #      # #
#####      #####      # # #      # #####      # #      #
# #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #
# #      #####      # #      # #      #####      #
```

Radtrad 3.03 4/15/2001

NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory

Nuclide Inventory File:

c:\radtrad3.03\nmp2\nmp2.nif

Plant Power Level:

4.0670E+03

Compartments:

8

Compartment 1:

DW

3

3.0620E+05

1

0

0

0

0

Compartment 2:

WW

3

1.9080E+05

0

0

0

0

0

Compartment 3:

Dummy

3

1.0000E+02

0

0

0

0

0

Compartment 4:

Environment

2

0.0000E+00

0

0

0

0

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```

0
Compartment 5:
CR
1
3.8100E+05
0
0
1
0
0
Compartment 6:
MSL Volume 1
3
3.3129E+02
0
0
0
0
0
Compartment 7:
MSL Volume 2
3
5.9390E+01
0
0
0
0
0
Compartment 8:
MSL Volume 3
3
4.2841E+02
0
0
0
0
0
Pathways:
14
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment (Released to Dummy)
1
3
2
Pathway 6:
WW Bypass Pathway 6 to Environment (Released to Dummy)
2
3
2
Pathway 7:
DW to MSL Volume 1
1
6
2

```


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Pathway 8:

MSL Volume 1 to MSL Volume 2

6

7

2

Pathway 9:

MSL Volume 2 to MSL Volume 3

7

8

2

Pathway 10:

MSL Volume 3 to Environment

8

4

2

Pathway 11:

CR Filtered Intake (Pathway 9)

4

5

2

Pathway 12:

CR Unfiltered Inleakage (Pathway 10)

4

5

2

Pathway 13:

CR Exhaust to Environment (Pathway 11)

5

4

2

Pathway 14:

DW to Dummy MSL flows all other steam lines

1

3

2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1

1 1.0000E+00

c:\radtrad3.03\nmp2\nmp2.inp

c:\radtrad3.03\nmp2\bwr_dba.rft

0.0000E+00

1

9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0

0.0000E+00

0

0

0

0

Compartments:

8

Compartment 1:

0

1

1

0.0000E+00

5

0.0000E+00 0.0000E+00

3.3330E-01 1.9800E+01

2.2500E+00 0.0000E+00

2.4000E+00 0.0000E+00

7.2000E+02 0.0000E+00

1

0.0000E+00

5

0.0000E+00 0.0000E+00

3.3330E-01 1.9800E+01

2.2500E+00 1.9800E+01

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2.4000E+00 0.0000E+00

7.2000E+02 0.0000E+00

1

0.0000E+00

0

0

0

0

0

Compartment 2:

0

1

0

0

0

0

0

0

0

Compartment 3:

0

1

0

0

0

0

0

0

0

Compartment 4:

0

1

0

0

0

0

0

0

0

Compartment 5:

1

1

0

0

0

0

1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0

0

Compartment 6:

0

1

0

0

0

0

0

0

0

Compartment 7:

0

1

0

0

0

0

0

0

0

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Compartment 8:

0
1
0
0
0
0
0
0
0
0

Pathways:

14

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0
0
0
0
1
4

0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0
0

Pathway 4:

0
0
0
0
0
1
4

0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00

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2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				

Pathway 5:

0				
0				
0				
0				
0				
1				
5				
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				

Pathway 6:

0				
0				
0				
0				
0				
1				
5				
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				

Pathway 7:

0				
0				
0				
0				
0				
1				
3				
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				

Pathway 8:

0				
0				
0				
0				
0				
1				
3				
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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0
0
0
0
0
0

Pathway 9:

0
0
0
0
0
1
3

0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0
0

Pathway 10:

0
0
0
0
0
1
3

0.0000E+00	8.3300E-01	9.9980E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9980E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0
0

Pathway 11:

0
0
0
0
0
1
3

0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0
0
0
0
0

Pathway 12:

0
0
0
0
0
1
7

0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

0
0

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```

0
0
0
0
Pathway 13:
0
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
0
1
3
0.0000E+00  1.0140E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  5.0700E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4
1
5
0.0000E+00  1.6200E-05
8.0000E+00  1.0900E-05
2.4000E+01  4.5900E-06
9.6000E+01  1.3300E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1

```

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```
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o674
1
1
1
0
0
End of Scenario File
```

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 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:29:53
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 8

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSL Volume 1

Exit Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Inlet Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 10: MSL Volume 3 to Environment

Inlet Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Exit Pathway Number 11: CR Filtered Intake (Pathway 9)

Exit Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 11: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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Name: MSL Volume 1
Compartment volume = 3.3129E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSL Volume 1
Exit Pathway Number 8: MSL Volume 1 to MSL Volume 2

Compartment number 7
Name: MSL Volume 2
Compartment volume = 5.9390E+01 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSL Volume 1 to MSL Volume 2
Exit Pathway Number 9: MSL Volume 2 to MSL Volume 3

Compartment number 8
Name: MSL Volume 3
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 9: MSL Volume 2 to MSL Volume 3
Exit Pathway Number 10: MSL Volume 3 to Environment

Total number of pathways = 14

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 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:29:53
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.666E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSL Volume 1

Compartment number 7: MSL Volume 2

Compartment number 8: MSL Volume 3

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSL Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSL Volume 1 to MSL Volume 2

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSL Volume 2 to MSL Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: MSL Volume 3 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.3300E-01	9.9980E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9980E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 12: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: DW to Dummy MSL flows all other steam lines

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0140E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.0700E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate ($\text{m}^3 \cdot \text{sec}^{-1}$)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:29:53
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#####
Dose, Detailed model and Detailed Inventory Output
#####
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2880E-15	3.1846E-14	3.2980E-15
Accumulated dose (rem)		2.2880E-15	3.1846E-14	3.2980E-15

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1148E-16	4.3353E-15	4.4897E-16
Accumulated dose (rem)		3.1148E-16	4.3353E-15	4.4897E-16

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1537E-18	2.4463E-16	8.9136E-18
Accumulated dose (rem)		1.1537E-18	2.4463E-16	8.9136E-18

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		4.8180E+03	0.0000E+00
Elemental I (atoms)		1.5874E+01	0.0000E+00
Organic I (atoms)		9.8191E-01	0.0000E+00
Aerosols (kg)		6.0097E-24	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.5479E-26
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.8243E-26
Total I (Ci)			3.0655E-15

		Deposition	Recirculating
Time (h) =	0.0167	Surfaces	Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 3.6152E+03
Elemental I (atoms)		0.0000E+00 1.1913E+01
Organic I (atoms)		0.0000E+00 7.3688E-01
Aerosols (kg)		0.0000E+00 4.5079E-24

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 1.2051E+03

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Elemental I (atoms)	0.0000E+00	3.9710E+00
Organic I (atoms)	0.0000E+00	2.4563E-01
Aerosols (kg)	0.0000E+00	1.5026E-24

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	2.3476E+00	0.0000E+00
Elemental I (atoms)	7.7360E-03	0.0000E+00
Organic I (atoms)	4.7851E-04	0.0000E+00
Aerosols (kg)	2.9275E-27	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5405E-12	9.7618E-11	9.6354E-12	
Accumulated dose (rem)	6.5428E-12	9.7650E-11	9.6387E-12	

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.9039E-13	1.3289E-11	1.3117E-12	
Accumulated dose (rem)	8.9070E-13	1.3293E-11	1.3122E-12	

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7937E-14	7.1709E-13	4.0897E-14	
Accumulated dose (rem)	1.7938E-14	7.1733E-13	4.0906E-14	

CR Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-85m	2.1699E-11	2.6367E-21	1.8681E+04	5.4204E+01	
Kr-85	1.1111E-12	2.8346E-18	2.0083E+07	2.7697E+00	
Kr-87	4.2378E-11	1.4961E-21	1.0356E+04	1.0642E+02	
Kr-88	5.9041E-11	4.7085E-21	3.2222E+04	1.4766E+02	
I-131	2.7985E-13	2.2573E-21	1.0377E+04	6.9987E-01	
Xe-133	1.3592E-10	7.2613E-19	3.2878E+06	3.3883E+02	
Xe-133m	4.1683E-12	9.4680E-21	4.2870E+04	1.0392E+01	
Xe-135	5.7463E-11	2.2502E-20	1.0038E+05	1.4314E+02	
Cs-137	3.8563E-16	4.4335E-21	1.9488E+04	9.6439E-04	

CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)	2.3584E+07	0.0000E+00	
Elemental I (atoms)	1.2772E+04	0.0000E+00	
Organic I (atoms)	7.9004E+02	0.0000E+00	
Aerosols (kg)	4.8625E-21	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.6606E-23	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.6791E-23	
Total I (Ci)		2.4245E-12	

	Deposition	Recirculating
Time (h) =	0.0833	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.8809E+01
Organic I (atoms)	0.0000E+00	1.1635E+00
Aerosols (kg)	0.0000E+00	7.1472E-24

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9969E+07
Elemental I (atoms)	6.5054E+04	6.6902E+02
Organic I (atoms)	4.0239E+03	4.1383E+01
Aerosols (kg)	2.4648E-20	2.5348E-22

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported

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Noble gases (atoms)	0.0000E+00	3.6985E+06
Elemental I (atoms)	0.0000E+00	1.2173E+04
Organic I (atoms)	0.0000E+00	7.5295E+02
Aerosols (kg)	0.0000E+00	4.6121E-21

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	8.2791E+04	0.0000E+00
Elemental I (atoms)	4.5043E+01	0.0000E+00
Organic I (atoms)	2.7862E+00	0.0000E+00
Aerosols (kg)	1.7115E-23	0.0000E+00

EAB Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2526E-09	9.7534E-08	8.3412E-09
Accumulated dose (rem)	5.2592E-09	9.7632E-08	8.3509E-09

LPZ Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1506E-10	1.3278E-08	1.1355E-09
Accumulated dose (rem)	7.1595E-10	1.3291E-08	1.1368E-09

CR Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5414E-11	2.7494E-09	1.4561E-10
Accumulated dose (rem)	5.5432E-11	2.7502E-09	1.4565E-10

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	8.5612E-09	4.2175E-19	3.0600E+06	7.0668E+04
Kr-85m	2.0731E-08	2.5191E-18	1.7847E+07	1.6930E+05
Kr-85	1.1034E-09	2.8150E-15	1.9944E+10	8.9426E+03
Kr-87	3.6723E-08	1.2965E-18	8.9741E+06	3.0574E+05
Kr-88	5.5161E-08	4.3991E-18	3.0104E+07	4.5245E+05
Rb-88	7.1226E-09	5.9003E-20	4.0377E+05	4.2276E+04
I-131	2.7618E-10	2.2277E-18	1.0241E+07	2.2405E+03
I-132	3.6969E-10	3.5815E-20	1.6340E+05	3.0365E+03
I-133	5.6701E-10	5.0053E-19	2.2664E+06	4.6065E+03
I-134	5.0535E-10	1.8943E-20	8.5134E+04	4.2626E+03
I-135	5.2322E-10	1.4899E-19	6.6460E+05	4.2656E+03
Xe-133	1.3495E-07	7.2093E-16	3.2643E+09	1.0938E+06
Xe-133m	4.1366E-09	9.3958E-18	4.2544E+07	3.3532E+04
Xe-135	5.8104E-08	2.2753E-17	1.0150E+08	4.6953E+05
Xe-135m	1.9938E-08	2.1902E-19	9.7703E+05	1.7021E+05
Xe-138	4.5628E-08	4.7552E-19	2.0751E+06	4.3003E+05
Cs-134	4.9064E-13	3.7922E-19	1.7042E+06	3.9796E+00
Cs-137	3.8092E-13	4.3793E-18	1.9250E+07	3.0896E+00

CR Transport Group Inventory:

Time (h) = 0.3333	Atmosphere	Sump
Noble gases (atoms)	2.3415E+10	0.0000E+00
Elemental I (atoms)	1.2546E+07	0.0000E+00
Organic I (atoms)	7.7605E+05	0.0000E+00
Aerosols (kg)	4.8411E-18	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.6002E-20
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.5716E-20
Total I (Ci)		2.2414E-09

	Deposition	Recirculating
Time (h) = 0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.3942E+04
Organic I (atoms)	0.0000E+00	4.5737E+03
Aerosols (kg)	0.0000E+00	2.8431E-20

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0037E+10	
Elemental I (atoms)	6.4995E+07	6.5653E+05	
Organic I (atoms)	4.0203E+06	4.0610E+04	
Aerosols (kg)	2.4740E-17	2.4990E-19	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7106E+09	
Elemental I (atoms)	0.0000E+00	1.2158E+07	
Organic I (atoms)	0.0000E+00	7.5203E+05	
Aerosols (kg)	0.0000E+00	4.6278E-18	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	3.2977E+08	0.0000E+00	
Elemental I (atoms)	1.7704E+05	0.0000E+00	
Organic I (atoms)	1.0951E+04	0.0000E+00	
Aerosols (kg)	6.8073E-20	0.0000E+00	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9810E-08	6.1873E-07	4.9387E-08	
Accumulated dose (rem)	3.5069E-08	7.1636E-07	5.7737E-08	

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0581E-09	8.4230E-08	6.7232E-09	
Accumulated dose (rem)	4.7741E-09	9.7521E-08	7.8601E-09	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.9682E-10	2.7647E-08	1.4168E-09	
Accumulated dose (rem)	5.5226E-10	3.0397E-08	1.5625E-09	

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m	5.9843E-08	2.9480E-18	2.1390E+07	7.3020E+05	
Kr-85m	1.5027E-07	1.8260E-17	1.2937E+08	1.8044E+06	
Kr-85	8.2071E-09	2.0938E-14	1.4834E+11	9.7438E+04	
Kr-87	2.4942E-07	8.8056E-18	6.0953E+07	3.0828E+06	
Kr-88	3.9393E-07	3.1416E-17	2.1499E+08	4.7612E+06	
Rb-88	7.0713E-08	5.8578E-19	4.0087E+06	6.5278E+05	
I-131	2.0094E-09	1.6208E-17	7.4509E+07	2.4166E+04	
I-132	2.5795E-09	2.4990E-19	1.1401E+06	3.1612E+04	
I-133	4.1049E-09	3.6236E-18	1.6408E+07	4.9476E+04	
I-134	3.2246E-09	1.2088E-19	5.4323E+05	4.1129E+04	
I-135	3.7430E-09	1.0658E-18	4.7544E+06	4.5351E+04	
Xe-133	1.0036E-06	5.3615E-15	2.4276E+10	1.1916E+07	
Xe-133m	3.0753E-08	6.9852E-17	3.1629E+08	3.6521E+05	
Xe-135	4.3670E-07	1.7101E-16	7.6283E+08	5.1643E+06	
Xe-135m	1.2940E-07	1.4215E-18	6.3412E+06	1.6485E+06	
Xe-138	2.0828E-07	2.1707E-18	9.4726E+06	3.1159E+06	
Cs-134	3.5676E-12	2.7574E-18	1.2392E+07	4.2927E+01	
Cs-136	1.0874E-12	1.4836E-20	6.5695E+04	1.3085E+01	
Cs-137	2.7698E-12	3.1844E-17	1.3998E+08	3.3327E+01	

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump	
Noble gases (atoms)	1.7414E+11	0.0000E+00		
Elemental I (atoms)	9.0907E+07	0.0000E+00		
Organic I (atoms)	5.7355E+06	0.0000E+00		
Aerosols (kg)	3.5358E-17	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.6135E-19		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3053E-19		
Total I (Ci)		1.5661E-08		

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	Deposition	Recirculating
Time (h) = 0.5000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	8.1738E+05
Organic I (atoms)	0.0000E+00	5.0906E+04
Aerosols (kg)	0.0000E+00	3.1647E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5007E+11
Elemental I (atoms)	4.7607E+08	4.8088E+06
Organic I (atoms)	3.0024E+07	3.0328E+05
Aerosols (kg)	1.8174E-16	1.8358E-18

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7791E+10
Elemental I (atoms)	0.0000E+00	8.9052E+07
Organic I (atoms)	0.0000E+00	5.6162E+06
Aerosols (kg)	0.0000E+00	3.3996E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	3.6903E+09	0.0000E+00
Elemental I (atoms)	1.9571E+06	0.0000E+00
Organic I (atoms)	1.2188E+05	0.0000E+00
Aerosols (kg)	7.5773E-19	0.0000E+00

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8555E-05	2.2955E-04	4.5787E-05
Accumulated dose (rem)	3.8590E-05	2.3027E-04	4.5845E-05

LPZ Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2486E-06	3.1250E-05	6.2332E-06
Accumulated dose (rem)	5.2534E-06	3.1347E-05	6.2410E-06

CR Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3103E-06	4.2849E-05	4.3571E-06
Accumulated dose (rem)	2.3109E-06	4.2879E-05	4.3586E-06

CR Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	6.8119E-05	3.3557E-15	2.4348E+10	3.4769E+09
Kr-85m	2.3720E-04	2.8822E-14	2.0420E+11	1.1398E+10
Kr-85	1.6339E-05	4.1684E-11	2.9532E+14	7.5338E+08
Kr-87	2.1922E-04	7.7392E-15	5.3571E+10	1.1759E+10
Kr-88	5.4381E-04	4.3369E-14	2.9679E+11	2.6778E+10
Rb-86	8.5804E-12	1.0545E-19	7.3843E+05	5.5893E+02
Rb-88	2.9956E-04	2.4816E-15	1.6982E+10	8.3482E+09
Sr-89	8.0041E-11	2.7551E-18	1.8642E+07	3.7872E+03
Sr-90	8.5723E-12	6.2844E-17	4.2050E+08	4.0554E+02
Sr-91	8.5358E-11	2.3547E-20	1.5583E+05	4.1159E+03
Sr-92	6.1313E-11	4.8780E-21	3.1930E+04	3.1046E+03
Y-91	1.0256E-12	4.1819E-20	2.7675E+05	4.8298E+01
Y-92	1.6009E-11	1.6638E-21	1.0891E+04	6.3039E+02
Zr-95	1.1846E-12	5.5142E-20	3.4955E+05	5.6049E+01
Nb-95	1.1694E-12	2.9905E-20	1.8957E+05	5.5319E+01
Mo-99	1.4656E-11	3.0557E-20	1.8588E+05	6.9523E+02
Tc-99m	1.3166E-11	2.5039E-21	1.5231E+04	6.1958E+02
Ru-103	1.2939E-11	4.0090E-19	2.3439E+06	6.1221E+02

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Ru-106	5.3860E-12	1.6099E-18	9.1462E+06	2.5481E+02
Rh-105	8.5642E-12	1.0147E-20	5.8194E+04	4.0521E+02
Sb-127	1.4686E-11	5.4995E-20	2.6078E+05	6.9615E+02
Sb-129	3.3420E-11	5.9430E-21	2.7744E+04	1.6493E+03
Te-127	1.4720E-11	5.5776E-21	2.6448E+04	6.9395E+02
Te-127m	2.5217E-12	2.6734E-19	1.2677E+06	1.1930E+02
Te-129m	8.2702E-12	2.7453E-19	1.2816E+06	3.9124E+02
Te-131m	2.9916E-11	3.7517E-20	1.7247E+05	1.4238E+03
Te-132	2.2084E-10	7.2743E-19	3.3187E+06	1.0472E+04
I-131	5.8705E-07	4.7353E-15	2.1768E+10	3.6342E+07
I-132	5.2033E-07	5.0409E-17	2.2998E+08	3.5070E+07
I-133	1.1468E-06	1.0123E-15	4.5838E+09	7.1731E+07
I-134	2.8927E-07	1.0843E-17	4.8732E+07	2.4140E+07
I-135	9.3928E-07	2.6746E-16	1.1931E+09	6.0244E+07
Xe-133	1.9857E-03	1.0609E-11	4.8035E+13	9.1677E+10
Xe-133m	6.0309E-05	1.3699E-13	6.2027E+11	2.7894E+09
Xe-135	8.2626E-04	3.2355E-13	1.4433E+12	3.8680E+10
Xe-135m	2.2686E-05	2.4921E-16	1.1117E+09	1.8700E+09
Xe-138	5.1255E-06	5.3417E-17	2.3310E+08	6.8884E+08
Cs-134	8.6064E-10	6.6519E-16	2.9894E+09	5.6032E+04
Cs-136	2.6146E-10	3.5674E-18	1.5796E+07	1.7035E+04
Cs-137	6.6821E-10	7.6822E-15	3.3769E+10	4.3503E+04
Ba-139	4.4305E-11	2.7086E-21	1.1735E+04	2.4029E+03
Ba-140	1.1734E-10	1.6028E-18	6.8944E+06	5.5543E+03
La-140	3.5879E-12	6.4550E-21	2.7766E+04	1.4475E+02
Ce-141	2.7815E-12	9.7618E-20	4.1693E+05	1.3160E+02
Ce-143	2.6022E-12	3.9184E-21	1.6502E+04	1.2378E+02
Ce-144	2.2300E-12	6.9917E-19	2.9240E+06	1.0550E+02
Pr-143	1.0663E-12	1.5835E-20	6.6685E+04	5.0398E+01
Nd-147	4.3100E-13	5.3277E-21	2.1826E+04	2.0404E+01
Np-239	3.0970E-11	1.3350E-19	3.3637E+05	1.4698E+03
Pu-238	6.9302E-15	4.0481E-19	1.0243E+06	3.2786E-01
Pu-239	6.9904E-16	1.1246E-17	2.8338E+07	3.3069E-02
Pu-240	1.2346E-15	5.4206E-19	1.3602E+06	5.8407E-02
Pu-241	2.7429E-13	2.7736E-18	6.9308E+06	1.2976E+01
Am-241	1.5522E-16	4.5308E-20	1.1322E+05	7.3424E-03
Cm-242	4.2614E-14	1.2873E-20	3.2035E+04	2.0161E+00
Cm-244	2.8186E-15	3.4436E-20	8.4990E+04	1.3334E-01

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	3.4600E+14	0.0000E+00	
Elemental I (atoms)	2.2245E+10	0.0000E+00	
Organic I (atoms)	5.4047E+09	0.0000E+00	
Aerosols (kg)	1.0957E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	7.4941E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	9.2265E-17	
Total I (Ci)		3.4827E-06	

Deposition Recirculating

Time (h) =	2.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.0269E+09	
Organic I (atoms)	0.0000E+00	1.9120E+08	
Aerosols (kg)	0.0000E+00	4.5472E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1378E+14
Elemental I (atoms)	1.3147E+11	1.3280E+09
Organic I (atoms)	3.0889E+10	3.1201E+08
Aerosols (kg)	4.9748E-14	5.0251E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.8107E+13
Elemental I (atoms)	0.0000E+00	2.4592E+10
Organic I (atoms)	0.0000E+00	5.7779E+09
Aerosols (kg)	0.0000E+00	9.3057E-15

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	2.5709E+13	0.0000E+00
Elemental I (atoms)	2.4587E+09	0.0000E+00
Organic I (atoms)	4.5780E+08	0.0000E+00
Aerosols (kg)	1.0887E-15	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2600E-05	1.3302E-04	3.6784E-05
Accumulated dose (rem)		7.1190E-05	3.6329E-04	8.2629E-05

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4380E-06	1.8109E-05	5.0076E-06
Accumulated dose (rem)		9.6914E-06	4.9457E-05	1.1249E-05

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2779E-06	2.9634E-05	4.0880E-06
Accumulated dose (rem)		4.5887E-06	7.2514E-05	8.4466E-06

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		9.9663E-05	4.9097E-15	3.5623E+10	6.4694E+09
Kr-85m		3.6647E-04	4.4531E-14	3.1549E+11	2.2121E+10
Kr-85		2.6239E-05	6.6941E-11	4.7427E+14	1.5072E+09
Kr-87		3.0720E-04	1.0845E-14	7.5072E+10	2.1175E+10
Kr-88		8.2163E-04	6.5525E-14	4.4841E+11	5.1073E+10
Rb-86		1.1097E-11	1.3638E-19	9.5499E+05	8.9969E+02
Rb-88		5.0743E-04	4.2035E-15	2.8766E+10	1.9037E+10
Sr-89		1.2054E-10	4.1492E-18	2.8076E+07	7.3214E+03
Sr-90		1.2912E-11	9.4658E-17	6.3338E+08	7.8408E+02
Sr-91		1.2625E-10	3.4826E-20	2.3047E+05	7.8492E+03
Sr-92		8.6632E-11	6.8923E-21	4.5116E+04	5.7230E+03
Y-91		1.5500E-12	6.3204E-20	4.1827E+05	9.3628E+01
Y-92		2.6535E-11	2.7577E-21	1.8051E+04	1.3492E+03
Zr-95		1.7841E-12	8.3048E-20	5.2645E+05	1.0836E+02
Nb-95		1.7614E-12	4.5045E-20	2.8554E+05	1.0696E+02
Mo-99		2.2017E-11	4.5906E-20	2.7924E+05	1.3415E+03
Tc-99m		1.9822E-11	3.7697E-21	2.2931E+04	1.1979E+03
Ru-103		1.9485E-11	6.0374E-19	3.5299E+06	1.1835E+03
Ru-106		8.1125E-12	2.4248E-18	1.3776E+07	4.9264E+02
Rh-105		1.2886E-11	1.5266E-20	8.7558E+04	7.8293E+02
Sb-127		2.2080E-11	8.2680E-20	3.9206E+05	1.3440E+03
Sb-129		4.8359E-11	8.5996E-21	4.0146E+04	3.0943E+03
Te-127		2.2167E-11	8.3995E-21	3.9829E+04	1.3418E+03
Te-127m		3.7983E-12	4.0268E-19	1.9094E+06	2.3065E+02
Te-129		5.5588E-11	2.6544E-21	1.2391E+04	3.3946E+03
Te-129m		1.2457E-11	4.1349E-19	1.9303E+06	7.5642E+02
Te-131m		4.4801E-11	5.6184E-20	2.5828E+05	2.7409E+03
Te-132		3.3190E-10	1.0933E-18	4.9877E+06	2.0212E+04
I-131		7.8579E-07	6.3383E-15	2.9138E+10	6.0206E+07
I-132		6.5689E-07	6.3639E-17	2.9034E+08	5.5642E+07
I-133		1.5236E-06	1.3450E-15	6.0901E+09	1.1817E+08
I-134		3.1803E-07	1.1922E-17	5.3577E+07	3.4775E+07
I-135		1.2258E-06	3.4905E-16	1.5571E+09	9.7929E+07
Xe-133		3.1852E-03	1.7017E-11	7.7050E+13	1.8324E+11
Xe-133m		9.6573E-05	2.1936E-13	9.9323E+11	5.5680E+09
Xe-135		1.3076E-03	5.1204E-13	2.2841E+12	7.6528E+10
Xe-135m		2.3794E-05	2.6137E-16	1.1659E+09	2.7404E+09
Xe-138		3.9580E-06	4.1249E-17	1.8001E+08	8.5282E+08
Cs-134		1.1135E-09	8.6059E-16	3.8676E+09	9.0218E+04
Cs-136		3.3808E-10	4.6128E-18	2.0426E+07	2.7418E+04
Cs-137		8.6451E-10	9.9390E-15	4.3689E+10	7.0046E+04
Ba-139		5.8850E-11	3.5979E-21	1.5588E+04	4.2353E+03
Ba-140		1.7664E-10	2.4128E-18	1.0379E+07	1.0734E+04
La-140		6.0203E-12	1.0831E-20	4.6591E+04	3.0820E+02

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Ce-141	4.1890E-12	1.4702E-19	6.2791E+05	2.5442E+02
Ce-143	3.8990E-12	5.8712E-21	2.4725E+04	2.3837E+02
Ce-144	3.3588E-12	1.0531E-18	4.4041E+06	2.0397E+02
Pr-143	1.6071E-12	2.3866E-20	1.0051E+05	9.7488E+01
Nd-147	6.4877E-13	8.0195E-21	3.2854E+04	3.9430E+01
Np-239	4.6505E-11	2.0046E-19	5.0510E+05	2.8352E+03
Pu-238	1.0439E-14	6.0974E-19	1.5428E+06	6.3388E-01
Pu-239	1.0530E-15	1.6940E-17	4.2685E+07	6.3938E-02
Pu-240	1.8596E-15	8.1647E-19	2.0487E+06	1.1293E-01
Pu-241	4.1315E-13	4.1777E-18	1.0439E+07	2.5088E+01
Am-241	2.3381E-16	6.8250E-20	1.7054E+05	1.4197E-02
Cm-242	6.4184E-14	1.9390E-20	4.8251E+04	3.8978E+00
Cm-244	4.2455E-15	5.1868E-20	1.2802E+05	2.5781E-01

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	5.5547E+14	0.0000E+00		
Elemental I (atoms)	2.8857E+10	0.0000E+00		
Organic I (atoms)	8.0455E+09	0.0000E+00		
Aerosols (kg)	1.5188E-14	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0002E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.2273E-16	
Total I (Ci)			4.5102E-06	

		Deposition	Recirculating	
Time (h) =	2.2500	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	1.6952E+09		
Organic I (atoms)	0.0000E+00	3.6549E+08		
Aerosols (kg)	0.0000E+00	7.8761E-16		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	2.2500	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	5.1412E+14		
Elemental I (atoms)	1.7707E+11	1.7886E+09		
Organic I (atoms)	4.7431E+10	4.7910E+08		
Aerosols (kg)	6.6852E-14	6.7528E-16		

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	2.2500	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	9.5208E+13		
Elemental I (atoms)	0.0000E+00	3.3121E+10		
Organic I (atoms)	0.0000E+00	8.8723E+09		
Aerosols (kg)	0.0000E+00	1.2505E-14		

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	2.2500	Filtered	Transported	
Noble gases (atoms)	5.3510E+13	0.0000E+00		
Elemental I (atoms)	4.0589E+09	0.0000E+00		
Organic I (atoms)	8.7509E+08	0.0000E+00		
Aerosols (kg)	1.8858E-15	0.0000E+00		

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7641E-05	1.0297E-04	3.0879E-05
Accumulated dose (rem)		9.8831E-05	4.6627E-04	1.1351E-04

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.7629E-06	1.4018E-05	4.2036E-06
Accumulated dose (rem)		1.3454E-05	6.3475E-05	1.5452E-05

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9129E-06	2.2445E-05	3.4033E-06

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Accumulated dose (rem) 6.5016E-06 9.4959E-05 1.1850E-05

CR Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	1.2605E-04	6.2093E-15	4.5052E+10	8.8991E+09
Kr-85m	4.7888E-04	5.8190E-14	4.1227E+11	3.1204E+10
Kr-85	3.5093E-05	8.9529E-11	6.3430E+14	2.1654E+09
Kr-87	3.7860E-04	1.3366E-14	9.2520E+10	2.8568E+10
Kr-88	1.0594E-03	8.4484E-14	5.7815E+11	7.1301E+10
Rb-86	1.2973E-11	1.5943E-19	1.1164E+06	1.1502E+03
Rb-88	6.6560E-04	5.5137E-15	3.7732E+10	2.8668E+10
Sr-89	1.5417E-10	5.3065E-18	3.5906E+07	1.0241E+04
Sr-90	1.6515E-11	1.2107E-16	8.1010E+08	1.0968E+03
Sr-91	1.5971E-10	4.4059E-20	2.9157E+05	1.0890E+04
Sr-92	1.0663E-10	8.4836E-21	5.5532E+04	7.7810E+03
Y-91	1.9863E-12	8.0996E-20	5.3601E+05	1.3118E+02
Y-92	3.5503E-11	3.6896E-21	2.4152E+04	1.9873E+03
Zr-95	2.2818E-12	1.0621E-19	6.7330E+05	1.5157E+02
Nb-95	2.2528E-12	5.7613E-20	3.6521E+05	1.4962E+02
Mo-99	2.8116E-11	5.8622E-20	3.5659E+05	1.8744E+03
Tc-99m	2.5344E-11	4.8199E-21	2.9319E+04	1.6758E+03
Ru-103	2.4919E-11	7.7210E-19	4.5143E+06	1.6555E+03
Ru-105	1.2226E-11	1.8188E-21	1.0431E+04	8.5944E+02
Ru-106	1.0376E-11	3.1014E-18	1.7620E+07	6.8915E+02
Rh-105	1.6469E-11	1.9512E-20	1.1191E+05	1.0947E+03
Sb-127	2.8209E-11	1.0563E-19	5.0088E+05	1.8786E+03
Sb-129	6.0381E-11	1.0738E-20	5.0126E+04	4.2515E+03
Te-127	2.8348E-11	1.0742E-20	5.0935E+04	1.8771E+03
Te-127m	4.8581E-12	5.1504E-19	2.4422E+06	3.2265E+02
Te-129	7.0048E-11	3.3448E-21	1.5615E+04	4.7040E+03
Te-129m	1.5932E-11	5.2885E-19	2.4689E+06	1.0581E+03
Te-131m	5.7104E-11	7.1612E-20	3.2920E+05	3.8242E+03
Te-132	4.2395E-10	1.3964E-18	6.3709E+06	2.8247E+04
I-131	9.4102E-07	7.5904E-15	3.4893E+10	7.8278E+07
I-132	7.6118E-07	7.3742E-17	3.3643E+08	7.0547E+07
I-133	1.8165E-06	1.6035E-15	7.2605E+09	1.5313E+08
I-134	3.3843E-07	1.2686E-17	5.7014E+07	4.1669E+07
I-135	1.4458E-06	4.1169E-16	1.8365E+09	1.2590E+08
Xe-133	4.2570E-03	2.2743E-11	1.0298E+14	2.6311E+11
Xe-133m	1.2894E-04	2.9287E-13	1.3261E+12	7.9882E+09
Xe-135	1.7341E-03	6.7906E-13	3.0292E+12	1.0921E+11
Xe-135m	2.5558E-05	2.8076E-16	1.2524E+09	3.3008E+09
Xe-138	3.4115E-06	3.5554E-17	1.5515E+08	9.3278E+08
Cs-134	1.3020E-09	1.0063E-15	4.5224E+09	1.1535E+05
Cs-136	3.9519E-10	5.3921E-18	2.3876E+07	3.5048E+04
Cs-137	1.0109E-09	1.1622E-14	5.1086E+10	8.9561E+04
Ba-139	6.9801E-11	4.2674E-21	1.8488E+04	5.6075E+03
Ba-140	2.2585E-10	3.0850E-18	1.3270E+07	1.5012E+04
La-140	8.1583E-12	1.4678E-20	6.3137E+04	4.5487E+02
Ce-141	5.3573E-12	1.8802E-19	8.0304E+05	3.5588E+02
Ce-143	4.9712E-12	7.4857E-21	3.1525E+04	3.3266E+02
Ce-144	4.2959E-12	1.3469E-18	5.6328E+06	2.8533E+02
Pr-143	2.0563E-12	3.0537E-20	1.2860E+05	1.3642E+02
Nd-147	8.2946E-13	1.0253E-20	4.2004E+04	5.5142E+01
Np-239	5.9372E-11	2.5592E-19	6.4485E+05	3.9606E+03
Pu-238	1.3351E-14	7.7987E-19	1.9733E+06	8.8674E-01
Pu-239	1.3468E-15	2.1668E-17	5.4596E+07	8.9444E-02
Pu-240	2.3785E-15	1.0443E-18	2.6203E+06	1.5797E-01
Pu-241	5.2842E-13	5.3434E-18	1.3352E+07	3.5096E+01
Am-241	2.9906E-16	8.7297E-20	2.1814E+05	1.9860E-02
Cm-242	8.2090E-14	2.4799E-20	6.1712E+04	5.4525E+00
Cm-244	5.4301E-15	6.6340E-20	1.6373E+05	3.6065E-01

CR Transport Group Inventory:

Time (h) = 2.4000	Atmosphere	Sump
Noble gases (atoms)	7.4276E+14	0.0000E+00
Elemental I (atoms)	3.3814E+10	0.0000E+00
Organic I (atoms)	1.0305E+10	0.0000E+00
Aerosols (kg)	1.8372E-14	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1958E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4645E-16
Total I (Ci)		5.3029E-06

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	Deposition Recirculating	
	Surfaces	Filter
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.1892E+09
Organic I (atoms)	0.0000E+00	5.0968E+08
Aerosols (kg)	0.0000E+00	1.0456E-15

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	6.9284E+14
Elemental I (atoms)	2.1111E+11	2.1324E+09
Organic I (atoms)	6.1494E+10	6.2115E+08
Aerosols (kg)	7.9594E-14	8.0398E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	1.2830E+14
Elemental I (atoms)	0.0000E+00	3.9490E+10
Organic I (atoms)	0.0000E+00	1.1503E+10
Aerosols (kg)	0.0000E+00	1.4888E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	7.7880E+13	0.0000E+00
Elemental I (atoms)	5.2416E+09	0.0000E+00
Organic I (atoms)	1.2203E+09	0.0000E+00
Aerosols (kg)	2.5035E-15	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 4.0000			
Delta dose (rem)	8.9017E-04	2.7028E-03	9.7495E-04
Accumulated dose (rem)	9.8900E-04	3.1691E-03	1.0885E-03

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 4.0000			
Delta dose (rem)	1.2118E-04	3.6794E-04	1.3272E-04
Accumulated dose (rem)	1.3464E-04	4.3142E-04	1.4818E-04

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 4.0000			
Delta dose (rem)	8.5048E-05	6.9261E-04	1.4639E-04
Accumulated dose (rem)	9.1550E-05	7.8757E-04	1.5824E-04

CR Compartment Nuclide Inventory:

Time (h) = 4.0000	Ci	kg	Atoms	Decay
Kr-83m	7.6094E-04	3.7486E-14	2.7198E+11	9.8887E+10
Kr-85m	4.0972E-03	4.9787E-13	3.5273E+12	4.5918E+11
Kr-85	3.8459E-04	9.8117E-10	6.9515E+15	3.9129E+10
Kr-87	1.7346E-03	6.1239E-14	4.2389E+11	2.5622E+11
Kr-88	7.8564E-03	6.2655E-13	4.2877E+12	9.3392E+11
Rb-86	5.1641E-11	6.3466E-19	4.4442E+06	7.6875E+03
Rb-88	6.0704E-03	5.0286E-14	3.4413E+11	5.0261E+11
Sr-89	1.0682E-09	3.6770E-17	2.4880E+08	1.2766E+05
Sr-90	1.1454E-10	8.3968E-16	5.6185E+09	1.3682E+04
Sr-91	9.8565E-10	2.7190E-19	1.7994E+06	1.2386E+05
Sr-92	4.9119E-10	3.9078E-20	2.5580E+05	7.0624E+04
Y-90	4.7404E-12	8.7129E-21	5.8301E+04	4.7086E+02
Y-91	1.4062E-11	5.7342E-19	3.7947E+06	1.6637E+03
Y-92	3.2034E-10	3.3291E-20	2.1792E+05	3.4156E+04
Y-93	1.1377E-11	3.4101E-21	2.2082E+04	1.4254E+03
Zr-95	1.5814E-11	7.3612E-19	4.6663E+06	1.8897E+03
Zr-97	1.2970E-11	6.7846E-21	4.2122E+04	1.5938E+03
Nb-95	1.5625E-11	3.9958E-19	2.5330E+06	1.8664E+03
Mo-99	1.9175E-10	3.9980E-19	2.4320E+06	2.3071E+04

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Tc-99m	1.7499E-10	3.3279E-20	2.0244E+05	2.0831E+04
Ru-103	1.7262E-10	5.3487E-18	3.1272E+07	2.0632E+04
Ru-105	6.6051E-11	9.8260E-21	5.6356E+04	8.8123E+03
Ru-106	7.1954E-11	2.1507E-17	1.2219E+08	8.5959E+03
Rh-105	1.1301E-10	1.3389E-19	7.6792E+05	1.3557E+04
Sb-127	1.9331E-10	7.2387E-19	3.4325E+06	2.3211E+04
Sb-129	3.2396E-10	5.7609E-20	2.6894E+05	4.3360E+04
Te-127	1.9623E-10	7.4354E-20	3.5257E+05	2.3377E+04
Te-127m	3.3694E-11	3.5721E-18	1.6938E+07	4.0250E+03
Te-129	4.0904E-10	1.9532E-20	9.1181E+04	5.1497E+04
Te-129m	1.1046E-10	3.6666E-18	1.7117E+07	1.3197E+04
Te-131m	3.8167E-10	4.7864E-19	2.2003E+06	4.6323E+04
Te-132	2.8989E-09	9.5487E-18	4.3563E+07	3.4841E+05
I-131	4.8448E-06	3.9079E-14	1.7965E+11	6.4118E+08
I-132	2.8015E-06	2.7141E-16	1.2382E+09	4.4285E+08
I-133	8.9157E-06	7.8704E-15	3.5637E+10	1.2078E+09
I-134	4.9448E-07	1.8536E-17	8.3303E+07	1.3936E+08
I-135	6.3289E-06	1.8021E-15	8.0391E+09	9.0794E+08
Xe-133	4.6295E-02	2.4732E-10	1.1199E+15	4.7242E+12
Xe-133m	1.3868E-03	3.1499E-12	1.4263E+13	1.4212E+11
Xe-135	1.7227E-02	6.7459E-12	3.0093E+13	1.8232E+12
Xe-135m	5.0425E-05	5.5392E-16	2.4710E+09	1.2610E+10
Xe-138	3.4482E-07	3.5936E-18	1.5682E+07	1.2792E+09
Cs-134	5.1954E-09	4.0155E-15	1.8046E+10	7.7242E+05
Cs-136	1.5715E-09	2.1442E-17	9.4945E+07	2.3407E+05
Cs-137	4.0340E-09	4.6378E-14	2.0386E+11	5.9974E+05
Ba-139	2.1652E-10	1.3237E-20	5.7351E+04	3.8068E+04
Ba-140	1.5607E-09	2.1318E-17	9.1702E+07	1.8673E+05
La-140	9.2452E-11	1.6633E-19	7.1548E+05	9.0051E+03
Ce-141	3.7119E-11	1.3027E-18	5.5639E+06	4.4360E+03
Ce-143	3.3338E-11	5.0202E-20	2.1142E+05	4.0404E+03
Ce-144	2.9790E-11	9.3400E-18	3.9060E+07	3.5589E+03
Pr-143	1.4319E-11	2.1265E-19	8.9552E+05	1.7071E+03
Nd-147	5.7286E-12	7.0812E-20	2.9010E+05	6.8556E+02
Np-239	4.0377E-10	1.7405E-18	4.3855E+06	4.8641E+04
Pu-238	9.2599E-14	5.4089E-18	1.3686E+07	1.1062E+01
Pu-239	9.3429E-15	1.5031E-16	3.7875E+08	1.1160E+00
Pu-240	1.6496E-14	7.2427E-18	1.8174E+07	1.9706E+00
Pu-241	3.6649E-12	3.7059E-17	9.2604E+07	4.3780E+02
Am-241	2.0752E-15	6.0574E-19	1.5136E+06	2.4784E-01
Cm-242	5.6918E-13	1.7195E-19	4.2789E+05	6.8001E+01
Cm-244	3.7660E-14	4.6011E-19	1.1356E+06	4.4988E+00

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	8.1242E+15	0.0000E+00	
Elemental I (atoms)	1.3675E+11	0.0000E+00	
Organic I (atoms)	8.6820E+10	0.0000E+00	
Aerosols (kg)	1.0210E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.0519E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.2889E-16	
Total I (Ci)		2.3385E-05	

Deposition Recirculating

Time (h) =	4.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.5278E+10	
Organic I (atoms)	0.0000E+00	7.1069E+09	
Aerosols (kg)	0.0000E+00	9.5436E-15	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.0947E+15
Elemental I (atoms)	9.6815E+11	9.7793E+09
Organic I (atoms)	5.6806E+11	5.7379E+09
Aerosols (kg)	3.6249E-13	3.6615E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4990E+15

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Elemental I (atoms)	0.0000E+00	1.8110E+11
Organic I (atoms)	0.0000E+00	1.0626E+11
Aerosols (kg)	0.0000E+00	6.7806E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	1.4613E+15	0.0000E+00
Elemental I (atoms)	3.6581E+10	0.0000E+00
Organic I (atoms)	1.7016E+10	0.0000E+00
Aerosols (kg)	2.2850E-14	0.0000E+00

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6898E-03	2.8637E-02	9.5835E-03
Accumulated dose (rem)	9.6788E-03	3.1806E-02	1.0672E-02

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1830E-03	3.8984E-03	1.3046E-03
Accumulated dose (rem)	1.3176E-03	4.3298E-03	1.4528E-03

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6376E-03	1.2165E-02	2.8634E-03
Accumulated dose (rem)	1.7291E-03	1.2953E-02	3.0217E-03

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	2.4781E-03	1.2208E-13	8.8575E+11	1.0823E+12
Kr-85m	3.1905E-02	3.8769E-12	2.7467E+13	9.4891E+12
Kr-85	5.5610E-03	1.4187E-08	1.0052E+17	1.3160E+12
Kr-87	2.8345E-03	1.0007E-13	6.9266E+11	1.7845E+12
Kr-88	4.2794E-02	3.4128E-12	2.3355E+13	1.4757E+13
Rb-86	2.5244E-10	3.1024E-18	2.1725E+07	8.6110E+04
Rb-88	4.0341E-02	3.3418E-13	2.2869E+12	1.0625E+13
Sr-89	7.0780E-09	2.4363E-16	1.6485E+09	2.1740E+06
Sr-90	7.6063E-10	5.5762E-15	3.7312E+10	2.3341E+05
Sr-91	4.8888E-09	1.3486E-18	8.9250E+06	1.7000E+06
Sr-92	1.1726E-09	9.3291E-20	6.1066E+05	5.8196E+05
Y-90	6.1410E-11	1.1287E-19	7.5526E+05	1.4921E+04
Y-91	9.7690E-11	3.9835E-18	2.6361E+07	2.9437E+04
Y-92	1.9748E-09	2.0523E-19	1.3434E+06	6.4527E+05
Y-93	5.7417E-11	1.7210E-20	1.1144E+05	1.9813E+04
Zr-95	1.0483E-10	4.8797E-18	3.0933E+07	3.2192E+04
Zr-97	7.3100E-11	3.8239E-20	2.3740E+05	2.4039E+04
Nb-95	1.0376E-10	2.6536E-18	1.6821E+07	3.1840E+04
Mo-99	1.2210E-09	2.5458E-18	1.5486E+07	3.8128E+05
Tc-99m	1.1399E-09	2.1678E-19	1.3187E+06	3.5091E+05
Ru-103	1.1430E-09	3.5416E-17	2.0707E+08	3.5117E+05
Ru-105	2.3491E-10	3.4947E-20	2.0043E+05	9.5279E+04
Ru-106	4.7769E-10	1.4278E-16	8.1119E+08	1.4660E+05
Rh-105	7.1843E-10	8.5117E-19	4.8818E+06	2.2471E+05
Sb-127	1.2458E-09	4.6651E-18	2.2121E+07	3.8708E+05
Sb-129	1.1324E-09	2.0137E-19	9.4005E+05	4.6314E+05
Te-127	1.2921E-09	4.8961E-19	2.3216E+06	3.9660E+05
Te-127m	2.2377E-10	2.3723E-17	1.1249E+08	6.8664E+04
Te-129	1.7088E-09	8.1598E-20	3.8093E+05	6.2618E+05
Te-129m	7.3222E-10	2.4306E-17	1.1347E+08	2.2487E+05
Te-131m	2.3109E-09	2.8980E-18	1.3322E+07	7.3707E+05
Te-132	1.8581E-08	6.1204E-17	2.7922E+08	5.7863E+06
I-131	3.7012E-05	2.9854E-13	1.3724E+12	1.0574E+10
I-132	9.6891E-06	9.3867E-16	4.2824E+09	3.9279E+09
I-133	6.0455E-05	5.3367E-14	2.4164E+11	1.8140E+10
I-134	1.6210E-07	6.0766E-18	2.7309E+07	3.3083E+08
I-135	3.2235E-05	9.1789E-15	4.0946E+10	1.0950E+10
Xe-133	6.5571E-01	3.5031E-09	1.5862E+16	1.5629E+14
Xe-133m	1.9071E-02	4.3318E-11	1.9614E+14	4.5927E+12
Xe-135	1.8726E-01	7.3329E-11	3.2711E+14	4.9135E+13

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Xe-135m	1.0656E-04	1.1706E-15	5.2217E+09	6.3254E+10
Cs-134	2.5550E-08	1.9748E-14	8.8749E+10	8.6916E+06
Cs-136	7.6618E-09	1.0454E-16	4.6290E+08	2.6167E+06
Cs-137	1.9842E-08	2.2811E-13	1.0027E+12	6.7493E+06
Ba-139	1.9237E-10	1.1761E-20	5.0952E+04	1.7264E+05
Ba-140	1.0271E-08	1.4030E-16	6.0349E+08	3.1636E+06
La-140	1.2392E-09	2.2294E-18	9.5900E+06	2.9868E+05
La-141	2.3947E-11	4.2344E-21	1.8085E+04	1.0103E+04
Ce-141	2.4577E-10	8.6253E-18	3.6839E+07	7.5511E+04
Ce-143	2.0356E-10	3.0652E-19	1.2909E+06	6.4694E+04
Ce-144	1.9775E-10	6.2001E-17	2.5929E+08	6.0693E+04
Pr-143	9.6051E-11	1.4264E-18	6.0069E+06	2.9348E+04
Nd-147	3.7645E-11	4.6534E-19	1.9064E+06	1.1602E+04
Np-239	2.5531E-09	1.1005E-17	2.7730E+07	7.9959E+05
Pu-238	6.1496E-13	3.5921E-17	9.0891E+07	1.8870E+02
Pu-239	6.2080E-14	9.9877E-16	2.5166E+09	1.9045E+01
Pu-240	1.0955E-13	4.8099E-17	1.2069E+08	3.3617E+01
Pu-241	2.4338E-11	2.4610E-16	6.1497E+08	7.4684E+03
Am-241	1.3798E-14	4.0278E-18	1.0065E+07	4.2319E+00
Cm-242	3.7772E-12	1.1411E-18	2.8396E+06	1.1594E+03
Cm-244	2.5010E-13	3.0555E-18	7.5412E+06	7.6745E+01

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	1.1695E+17	0.0000E+00	
Elemental I (atoms)	6.5203E+11	0.0000E+00	
Organic I (atoms)	1.0021E+12	0.0000E+00	
Aerosols (kg)	5.9098E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.4552E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.2096E-15	
Total I (Ci)		1.3955E-04	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7472E+11
Organic I (atoms)	0.0000E+00	1.9461E+11
Aerosols (kg)	0.0000E+00	1.4690E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4186E+17
Elemental I (atoms)	6.4211E+12	6.4859E+10
Organic I (atoms)	8.5493E+12	8.6356E+10
Aerosols (kg)	2.4644E-12	2.4893E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6271E+16
Elemental I (atoms)	0.0000E+00	1.2011E+12
Organic I (atoms)	0.0000E+00	1.5992E+12
Aerosols (kg)	0.0000E+00	4.6097E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	5.0948E+16	0.0000E+00
Elemental I (atoms)	4.1833E+11	0.0000E+00
Organic I (atoms)	4.6596E+11	0.0000E+00
Aerosols (kg)	3.5172E-13	0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.5379E-02	1.9144E-01	4.1317E-02
Accumulated dose (rem)		4.5058E-02	2.2325E-01	5.1989E-02

LPZ Doses:

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Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2406E-03	9.0182E-03	3.5203E-03
Accumulated dose (rem)	4.5582E-03	1.3348E-02	4.9731E-03

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4429E-03	5.5983E-02	9.7973E-03
Accumulated dose (rem)	7.1720E-03	6.8936E-02	1.2819E-02

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	3.4085E-04	1.6791E-14	1.2183E+11	2.1656E+12
Kr-85m	2.5090E-02	3.0488E-12	2.1600E+13	3.8638E+13
Kr-85	1.5078E-02	3.8467E-08	2.7253E+17	1.1319E+13
Kr-87	9.8152E-05	3.4651E-15	2.3986E+10	2.5954E+12
Kr-88	1.6467E-02	1.3132E-12	8.9868E+12	4.2800E+13
Rb-86	2.2623E-10	2.7804E-18	1.9470E+07	3.1865E+05
Rb-88	4.7331E-02	3.9208E-13	2.6831E+12	3.2860E+13
Sr-89	7.2833E-09	2.5070E-16	1.6963E+09	9.2079E+06
Sr-90	7.8627E-10	5.7641E-15	3.8569E+10	9.9107E+05
Sr-91	2.8191E-09	7.7768E-19	5.1465E+06	5.3643E+06
Sr-92	1.5664E-10	1.2462E-20	8.1575E+04	1.0702E+06
Y-90	1.2295E-10	2.2598E-19	1.5121E+06	1.0386E+05
Y-91	1.0676E-10	4.3534E-18	2.8810E+07	1.2973E+05
Y-92	7.4731E-10	7.7664E-20	5.0837E+05	1.9126E+06
Y-93	3.4277E-11	1.0274E-20	6.6528E+04	6.3547E+04
Zr-95	1.0797E-10	5.0261E-18	3.1861E+07	1.3642E+05
Zr-97	5.4428E-11	2.8472E-20	1.7676E+05	8.5872E+04
Nb-95	1.0726E-10	2.7431E-18	1.7388E+07	1.3518E+05
Mo-99	1.1605E-09	2.4196E-18	1.4718E+07	1.5466E+06
Tc-99m	1.1266E-09	2.1425E-19	1.3033E+06	1.4298E+06
Ru-103	1.1746E-09	3.6396E-17	2.1280E+08	1.4863E+06
Ru-105	6.9649E-11	1.0361E-20	5.9426E+04	2.2719E+05
Ru-106	4.9349E-10	1.4751E-16	8.3801E+08	6.2228E+05
Rh-105	6.5475E-10	7.7572E-19	4.4490E+06	8.9746E+05
Sb-127	1.2128E-09	4.5415E-18	2.1535E+07	1.5907E+06
Sb-129	3.2429E-10	5.7668E-20	2.6921E+05	1.0901E+06
Te-127	1.3075E-09	4.9541E-19	2.3492E+06	1.6473E+06
Te-127m	2.3130E-10	2.4521E-17	1.1628E+08	2.9154E+05
Te-129	1.0580E-09	5.0519E-20	2.3584E+05	1.7205E+06
Te-129m	7.5272E-10	2.4986E-17	1.1664E+08	9.5224E+05
Te-131m	1.9857E-09	2.4902E-18	1.1448E+07	2.8341E+06
Te-132	1.7893E-08	5.8937E-17	2.6888E+08	2.3638E+07
I-131	6.3007E-05	5.0822E-13	2.3363E+12	5.8648E+10
I-132	6.4654E-06	6.2636E-16	2.8576E+09	1.1206E+10
I-133	8.1092E-05	7.1585E-14	3.2413E+11	8.6992E+10
I-134	5.0825E-10	1.9052E-20	8.5623E+04	3.5757E+08
I-135	2.4396E-05	6.9468E-15	3.0988E+10	3.8264E+10
Xe-133	1.7039E+00	9.1031E-09	4.1218E+16	1.3063E+15
Xe-133m	4.6654E-02	1.0597E-10	4.7983E+14	3.6868E+13
Xe-135	2.7822E-01	1.0895E-10	4.8600E+14	2.8785E+14
Xe-135m	2.7974E-05	3.0729E-16	1.3708E+09	1.3021E+11
Cs-134	2.3176E-08	1.7913E-14	8.0503E+10	3.2370E+07
Cs-136	6.8305E-09	9.3197E-17	4.1268E+08	9.6560E+06
Cs-137	1.8003E-08	2.0698E-13	9.0982E+11	2.5140E+07
Ba-140	1.0427E-08	1.4242E-16	6.1263E+08	1.3300E+07
La-140	2.4612E-09	4.4280E-18	1.9047E+07	2.0877E+06
Ce-141	2.5236E-10	8.8567E-18	3.7827E+07	3.1949E+05
Ce-143	1.7787E-10	2.6785E-19	1.1280E+06	2.5096E+05
Ce-144	2.0426E-10	6.4040E-17	2.6782E+08	2.5759E+05
Pr-143	1.0086E-10	1.4978E-18	6.3075E+06	1.2575E+05
Nd-147	3.8105E-11	4.7102E-19	1.9296E+06	4.8700E+04
Np-239	2.3925E-09	1.0313E-17	2.5986E+07	3.2190E+06
Pu-238	6.3572E-13	3.7134E-17	9.3960E+07	8.0128E+02
Pu-239	6.4240E-14	1.0335E-15	2.6042E+09	8.0915E+01
Pu-240	1.1324E-13	4.9721E-17	1.2476E+08	1.4274E+02
Pu-241	2.5157E-11	2.5439E-16	6.3568E+08	3.1711E+04
Am-241	1.4300E-14	4.1743E-18	1.0431E+07	1.7994E+01
Cm-242	3.8991E-12	1.1779E-18	2.9312E+06	4.9192E+03
Cm-244	2.5852E-13	3.1584E-18	7.7952E+06	3.2586E+02

CR Transport Group Inventory:

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Time (h) = 16.0000	Atmosphere	Sump	
Noble gases (atoms)	3.1475E+17	0.0000E+00	
Elemental I (atoms)	5.3113E+11	0.0000E+00	
Organic I (atoms)	2.1587E+12	0.0000E+00	
Aerosols (kg)	6.2598E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		7.1601E-15
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		8.0589E-15
Total I (Ci)			1.7496E-04

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.2800E+11
Organic I (atoms)	0.0000E+00	1.3526E+12
Aerosols (kg)	0.0000E+00	5.6758E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3102E+17
Elemental I (atoms)	1.3826E+13	1.3966E+11
Organic I (atoms)	3.4905E+13	3.5258E+11
Aerosols (kg)	5.5812E-12	5.6376E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1686E+17
Elemental I (atoms)	0.0000E+00	2.5862E+12
Organic I (atoms)	0.0000E+00	6.5293E+12
Aerosols (kg)	0.0000E+00	1.0440E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	4.3144E+17	0.0000E+00
Elemental I (atoms)	1.5036E+12	0.0000E+00
Organic I (atoms)	3.2385E+12	0.0000E+00
Aerosols (kg)	1.3590E-12	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2098E-02	3.6256E-01	5.3295E-02
Accumulated dose (rem)	8.7156E-02	5.8580E-01	1.0528E-01

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8561E-03	1.7079E-02	4.3835E-03
Accumulated dose (rem)	8.4143E-03	3.0427E-02	9.3566E-03

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6646E-03	1.0676E-01	1.2018E-02
Accumulated dose (rem)	1.3837E-02	1.7570E-01	2.4837E-02

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	3.7106E-05	1.8279E-15	1.3263E+10	2.3262E+12
Kr-85m	1.5616E-02	1.8976E-12	1.3444E+13	6.1982E+13
Kr-85	3.2356E-02	8.2547E-08	5.8484E+17	3.7621E+13
Kr-87	2.6901E-06	9.4970E-17	6.5738E+08	2.6265E+12
Kr-88	5.0150E-03	3.9995E-13	2.7370E+12	5.4077E+13
Rb-86	2.3360E-10	2.8710E-18	2.0104E+07	5.6926E+05
Rb-88	1.4497E-02	1.2009E-13	8.2184E+11	4.1770E+13
Sr-89	8.2417E-09	2.8369E-16	1.9195E+09	1.7716E+07
Sr-90	8.9380E-10	6.5524E-15	4.3844E+10	1.9117E+06
Sr-91	1.7877E-09	4.9315E-19	3.2636E+06	7.8516E+06

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Sr-92	2.3011E-11	1.8307E-21	1.1984E+04	1.1468E+06
Y-90	2.0206E-10	3.7138E-19	2.4850E+06	2.7588E+05
Y-91	1.2473E-10	5.0862E-18	3.3659E+07	2.5643E+05
Y-92	2.2690E-10	2.3581E-20	1.5435E+05	2.3916E+06
Y-93	2.2503E-11	6.7449E-21	4.3676E+04	9.4278E+04
Zr-95	1.2230E-10	5.6930E-18	3.6088E+07	2.6261E+05
Zr-97	4.4566E-11	2.3313E-20	1.4473E+05	1.4004E+05
Nb-95	1.2193E-10	3.1182E-18	1.9766E+07	2.6071E+05
Mo-99	1.2129E-09	2.5289E-18	1.5383E+07	2.8489E+06
Tc-99m	1.2149E-09	2.3105E-19	1.4055E+06	2.6496E+06
Ru-103	1.3275E-09	4.1131E-17	2.4048E+08	2.8575E+06
Ru-105	2.2709E-11	3.3783E-21	1.9376E+04	2.7323E+05
Ru-106	5.6064E-10	1.6758E-16	9.5205E+08	1.1999E+06
Rh-105	6.4280E-10	7.6156E-19	4.3678E+06	1.6098E+06
Sb-127	1.2984E-09	4.8620E-18	2.3055E+07	2.9682E+06
Sb-129	1.0213E-10	1.8161E-20	8.4783E+04	1.3015E+06
Te-127	1.4488E-09	5.4897E-19	2.6031E+06	3.1076E+06
Te-127m	2.6289E-10	2.7871E-17	1.3216E+08	5.6230E+05
Te-129	8.7853E-10	4.1950E-20	1.9584E+05	2.5236E+06
Te-129m	8.5013E-10	2.8220E-17	1.3174E+08	1.8307E+06
Te-131m	1.8764E-09	2.3531E-18	1.0817E+07	4.9533E+06
Te-132	1.8948E-08	6.2412E-17	2.8474E+08	4.3850E+07
I-131	1.1169E-04	9.0088E-13	4.1414E+12	1.5571E+11
I-132	9.7186E-06	9.4152E-16	4.2954E+09	2.1578E+10
I-133	1.1327E-04	9.9988E-14	4.5274E+11	1.9698E+11
I-135	1.9226E-05	5.4747E-15	2.4422E+10	6.3108E+10
Xe-133	3.5035E+00	1.8717E-08	8.4749E+16	4.2085E+15
Xe-133m	9.0285E-02	2.0508E-10	9.2857E+14	1.1372E+14
Xe-135	3.2515E-01	1.2732E-10	5.6797E+14	6.3890E+14
Xe-135m	1.6611E-05	1.8247E-16	8.1397E+08	1.9708E+11
Cs-134	2.4222E-08	1.8721E-14	8.4136E+10	5.8200E+07
Cs-136	7.0161E-09	9.5729E-17	4.2389E+08	1.7203E+07
Cs-137	1.8821E-08	2.1638E-13	9.5115E+11	4.5208E+07
Ba-140	1.1640E-08	1.5899E-16	6.8391E+08	2.5396E+07
La-140	3.9485E-09	7.1038E-18	3.0557E+07	5.4832E+06
Ce-141	2.8488E-10	9.9981E-18	4.2702E+07	6.1392E+05
Ce-143	1.7093E-10	2.5739E-19	1.0839E+06	4.4238E+05
Ce-144	2.3201E-10	7.2741E-17	3.0421E+08	4.9665E+05
Pr-143	1.1583E-10	1.7201E-18	7.2440E+06	2.4430E+05
Nd-147	4.2415E-11	5.2429E-19	2.1479E+06	9.2840E+04
Np-239	2.4656E-09	1.0628E-17	2.6780E+07	5.8850E+06
Pu-238	7.2270E-13	4.2215E-17	1.0682E+08	1.5456E+03
Pu-239	7.3095E-14	1.1760E-15	2.9631E+09	1.5616E+02
Pu-240	1.2874E-13	5.6522E-17	1.4183E+08	2.7533E+02
Pu-241	2.8597E-11	2.8918E-16	7.2260E+08	6.1165E+04
Am-241	1.6298E-14	4.7573E-18	1.1888E+07	3.4756E+01
Cm-242	4.4261E-12	1.3371E-18	3.3274E+06	9.4811E+03
Cm-244	2.9387E-13	3.5903E-18	8.8612E+06	6.2855E+02

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	6.7110E+17	0.0000E+00	
Elemental I (atoms)	4.8700E+11	0.0000E+00	
Organic I (atoms)	4.1315E+12	0.0000E+00	
Aerosols (kg)	3.6528E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.2157E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3339E-14	
Total I (Ci)		2.5390E-04	

Deposition Recirculating

Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0676E+12
Organic I (atoms)	0.0000E+00	4.0274E+12
Aerosols (kg)	0.0000E+00	9.5528E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7697E+18
Elemental I (atoms)	2.1339E+13	2.1554E+11
Organic I (atoms)	9.2021E+13	9.2951E+11
Aerosols (kg)	9.1818E-12	9.2745E-14

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CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2771E+17
Elemental I (atoms)	0.0000E+00	3.9915E+12
Organic I (atoms)	0.0000E+00	1.7213E+13
Aerosols (kg)	0.0000E+00	1.7175E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.4213E+18	0.0000E+00
Elemental I (atoms)	2.5562E+12	0.0000E+00
Organic I (atoms)	9.6429E+12	0.0000E+00
Aerosols (kg)	2.2872E-12	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4928E-01	2.2412E+00	2.1790E-01
Accumulated dose (rem)	2.3644E-01	2.8270E+00	3.2318E-01

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7580E-03	5.6807E-02	7.4972E-03
Accumulated dose (rem)	1.4172E-02	8.7234E-02	1.6854E-02

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2692E-02	3.3213E-01	2.3117E-02
Accumulated dose (rem)	2.6529E-02	5.0783E-01	4.7954E-02

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	1.7793E-07	2.1621E-17	1.5318E+08	7.0845E+13
Kr-85	2.5374E-02	6.4734E-08	4.5863E+17	2.4715E+14
Kr-88	9.1872E-11	7.3267E-21	5.0139E+04	5.5985E+13
Rb-86	3.5328E-11	4.3418E-19	3.0404E+06	1.1272E+06
Rb-88	2.6721E-10	2.2135E-21	1.5148E+04	4.3621E+13
Sr-89	1.8775E-09	6.4626E-17	4.3729E+08	4.1460E+07
Sr-90	2.1213E-10	1.5551E-15	1.0406E+10	4.5330E+06
Y-90	1.3718E-10	2.5214E-19	1.6871E+06	1.4028E+06
Y-91	2.9574E-11	1.2059E-18	7.9805E+06	6.2638E+05
Zr-95	2.8104E-11	1.3082E-18	8.2928E+06	6.1629E+05
Nb-95	2.8907E-11	7.3924E-19	4.6861E+06	6.1805E+05
Mo-99	1.3517E-10	2.8183E-19	1.7144E+06	5.4694E+06
Tc-99m	1.3858E-10	2.6355E-20	1.6032E+05	5.1854E+06
Ru-103	2.9887E-10	9.2605E-18	5.4144E+07	6.6625E+06
Ru-106	1.3234E-10	3.9556E-17	2.2473E+08	2.8402E+06
Rh-105	3.7393E-11	4.4302E-20	2.5409E+05	2.7210E+06
Sb-127	1.7959E-10	6.7251E-19	3.1889E+06	6.0141E+06
Te-127	2.3312E-10	8.8332E-20	4.1885E+05	6.6163E+06
Te-127m	6.2036E-11	6.5768E-18	3.1186E+07	1.3317E+06
Te-129	1.6406E-10	7.8337E-21	3.6570E+04	4.1533E+06
Te-129m	1.8972E-10	6.2978E-18	2.9400E+07	4.2583E+06
Te-131m	8.4391E-11	1.0583E-19	4.8652E+05	7.9407E+06
Te-132	2.3760E-09	7.8263E-18	3.5705E+07	8.6649E+07
I-131	5.6450E-05	4.5534E-13	2.0932E+12	6.9672E+11
I-132	2.8826E-06	2.7927E-16	1.2741E+09	6.1549E+10
I-133	6.7191E-06	5.9313E-15	2.6857E+10	4.2387E+11
I-135	6.6090E-09	1.8819E-18	8.3949E+06	7.6657E+10
Xe-133	1.8639E+00	9.9579E-09	4.5088E+16	2.2823E+16
Xe-133m	2.7886E-02	6.3340E-11	2.8680E+14	4.8492E+14
Xe-135	1.0543E-03	4.1285E-13	1.8417E+12	9.9583E+14
Xe-135m	4.0622E-09	4.4624E-20	1.9906E+05	2.1527E+11
Cs-134	4.0837E-09	3.1563E-15	1.4185E+10	1.1863E+08
Cs-136	1.0120E-09	1.3808E-17	6.1144E+07	3.3650E+07
Cs-137	3.1813E-09	3.6574E-14	1.6077E+11	9.2214E+07

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Ba-140	2.3470E-09	3.2059E-17	1.3790E+08	5.7222E+07
La-140	2.0645E-09	3.7142E-18	1.5977E+07	2.4696E+07
Ce-141	6.3447E-11	2.2267E-18	9.5104E+06	1.4267E+06
Ce-143	8.9428E-12	1.3466E-20	5.6711E+04	7.2749E+05
Ce-144	5.4673E-11	1.7142E-17	7.1687E+07	1.1750E+06
Pr-143	2.6483E-11	3.9328E-19	1.6562E+06	5.8267E+05
Nd-147	8.3314E-12	1.0299E-19	4.2190E+05	2.0754E+05
Np-239	2.4205E-10	1.0434E-18	2.6290E+06	1.0970E+07
Pu-238	1.7162E-13	1.0024E-17	2.5365E+07	3.6657E+03
Pu-239	1.7443E-14	2.8064E-16	7.0713E+08	3.7112E+02
Pu-240	3.0560E-14	1.3418E-17	3.3668E+07	6.5293E+02
Pu-241	6.7860E-12	6.8620E-17	1.7147E+08	1.4503E+05
Am-241	3.9577E-15	1.1553E-18	2.8868E+06	8.3031E+01
Cm-242	1.0374E-12	3.1338E-19	7.7985E+05	2.2391E+04
Cm-244	6.9738E-14	8.5201E-19	2.1028E+06	1.4904E+03

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump	
Noble gases (atoms)	5.0401E+17	0.0000E+00	
Elemental I (atoms)	2.7981E+10	0.0000E+00	
Organic I (atoms)	2.0928E+12	0.0000E+00	
Aerosols (kg)	4.1991E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.3376E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.4085E-15	
Total I (Ci)		6.6059E-05	

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7490E+12
Organic I (atoms)	0.0000E+00	2.0054E+13
Aerosols (kg)	0.0000E+00	1.4898E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.4316E+18
Elemental I (atoms)	3.0926E+13	3.1238E+11
Organic I (atoms)	3.6159E+14	3.6525E+12
Aerosols (kg)	1.6704E-11	1.6872E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5614E+18
Elemental I (atoms)	0.0000E+00	5.7848E+12
Organic I (atoms)	0.0000E+00	6.7638E+13
Aerosols (kg)	0.0000E+00	3.1245E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	9.4648E+18	0.0000E+00
Elemental I (atoms)	4.1877E+12	0.0000E+00
Organic I (atoms)	4.8016E+13	0.0000E+00
Aerosols (kg)	3.5670E-12	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1778E-01	7.3644E+00	5.4223E-01
Accumulated dose (rem)	5.5422E-01	1.0191E+01	8.6541E-01

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5517E-03	5.4088E-02	5.2002E-03
Accumulated dose (rem)	1.7724E-02	1.4132E-01	2.2054E-02

CR Doses:

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Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3335E-02	5.4828E-01	3.0043E-02
Accumulated dose (rem)	3.9863E-02	1.0561E+00	7.7996E-02

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	1.7046E-02	4.3487E-08	3.0810E+17	1.8306E+15
Rb-86	6.5880E-12	8.0967E-20	5.6697E+05	2.2035E+06
Sr-89	7.3094E-10	2.5160E-17	1.7024E+08	1.2443E+08
Sr-90	1.1780E-10	8.6361E-16	5.7786E+09	1.5583E+07
Y-90	1.1842E-10	2.1766E-19	1.4564E+06	1.1802E+07
Y-91	1.2072E-11	4.9224E-19	3.2575E+06	1.9605E+06
Zr-95	1.1796E-11	5.4907E-19	3.4806E+06	1.9011E+06
Nb-95	1.4286E-11	3.8303E-19	2.4281E+06	2.0858E+06
Ru-103	1.0508E-10	3.2558E-18	1.9036E+07	1.9286E+07
Ru-106	7.0098E-11	2.0953E-17	1.1904E+08	9.5806E+06
Sb-127	9.2607E-13	3.4678E-21	1.6444E+04	8.1736E+06
Te-127	3.1286E-11	1.1855E-20	5.6214E+04	1.1577E+07
Te-127m	2.9802E-11	3.1595E-18	1.4982E+07	4.3664E+06
Te-129	5.3374E-11	2.5486E-21	1.1898E+04	9.1981E+06
Te-129m	6.1725E-11	2.0489E-18	9.5651E+06	1.2005E+07
Te-132	5.2366E-12	1.7249E-20	7.8693E+04	1.1120E+08
I-131	4.0000E-06	3.2265E-14	1.4832E+11	2.1363E+12
I-132	7.3939E-09	7.1632E-19	3.2680E+06	1.0023E+11
Xe-133	4.0941E-02	2.1873E-10	9.9037E+14	5.7477E+16
Xe-133m	5.8191E-06	1.3217E-14	5.9848E+10	7.1679E+14
Cs-134	1.9532E-09	1.5096E-15	6.7843E+09	3.0568E+08
Cs-136	1.2526E-10	1.7090E-18	7.5677E+06	6.0051E+07
Cs-137	1.5558E-09	1.7887E-14	7.8626E+10	2.3947E+08
Ba-140	3.1728E-10	4.3339E-18	1.8642E+07	1.2475E+08
La-140	3.6855E-10	6.6307E-19	2.8522E+06	9.8873E+07
Ce-141	2.0272E-11	7.1146E-19	3.0387E+06	3.9971E+06
Ce-144	2.8545E-11	8.9496E-18	3.7428E+07	3.9407E+06
Pr-143	4.0474E-12	6.0106E-20	2.5312E+05	1.3941E+06
Nd-147	8.9780E-13	1.1098E-20	4.5465E+04	4.2863E+05
Pu-238	9.5717E-14	5.5911E-18	1.4147E+07	1.2624E+04
Pu-239	9.7393E-15	1.5669E-16	3.9481E+08	1.2834E+03
Pu-240	1.7001E-14	7.4644E-18	1.8730E+07	2.2462E+03
Pu-241	3.7624E-12	3.8046E-17	9.5069E+07	4.9825E+05
Am-241	2.6307E-15	7.6789E-19	1.9188E+06	3.0857E+02
Cm-242	5.1665E-13	1.5608E-19	3.8840E+05	7.3716E+04
Cm-244	3.8686E-14	4.7264E-19	1.1665E+06	5.1213E+03

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	3.0909E+17	0.0000E+00
Elemental I (atoms)	6.8959E+08	0.0000E+00
Organic I (atoms)	1.4761E+11	0.0000E+00
Aerosols (kg)	2.0548E-14	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.7076E-16
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.7078E-16
Total I (Ci)		4.0074E-06

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.9912E+12
Organic I (atoms)	0.0000E+00	6.2161E+13
Aerosols (kg)	0.0000E+00	3.0308E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) = 720.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 5.5340E+19
Elemental I (atoms)	3.5001E+13 3.5355E+11
Organic I (atoms)	1.0842E+15 1.0952E+13
Aerosols (kg)	4.3126E-11 4.3561E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway
Time (h) = 720.0000	Filtered Transported

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Noble gases (atoms)	0.0000E+00	1.0248E+19
Elemental I (atoms)	0.0000E+00	6.5472E+12
Organic I (atoms)	0.0000E+00	2.0281E+14
Aerosols (kg)	0.0000E+00	8.0669E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	Transported
Time (h) = 720.0000	Filtered	
Noble gases (atoms)	6.5219E+19	0.0000E+00
Elemental I (atoms)	4.7676E+12	0.0000E+00
Organic I (atoms)	1.4883E+14	0.0000E+00
Aerosols (kg)	7.2566E-12	0.0000E+00

931

#####

I-131 Summary

#####

	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4751E-02
0.017	1.8470E+05	0.0000E+00	3.1395E+01
0.083	9.2044E+05	0.0000E+00	7.8060E+02
0.333	3.6817E+06	0.0000E+00	1.2120E+03
0.500	6.8012E+05	0.0000E+00	1.3959E+03
0.750	9.4093E+05	0.0000E+00	1.5615E+03
1.000	9.4889E+05	0.0000E+00	1.7377E+03
1.400	9.5870E+05	0.0000E+00	2.0221E+03
1.700	9.6603E+05	0.0000E+00	2.2371E+03
2.000	9.7334E+05	0.0000E+00	2.4536E+03
2.250	5.9162E+04	4.0983E+04	2.5052E+03
2.400	6.0403E+04	3.7668E+04	2.5135E+03
2.700	6.0349E+04	3.7597E+04	2.5299E+03
3.000	6.0272E+04	3.7549E+04	2.5463E+03
3.300	6.0196E+04	3.7501E+04	2.5627E+03
3.600	6.0119E+04	3.7454E+04	2.5790E+03
3.900	6.0043E+04	3.7406E+04	2.5953E+03
4.000	6.0017E+04	3.7390E+04	2.6007E+03
4.300	5.9941E+04	3.7343E+04	2.6169E+03
4.600	5.9865E+04	3.7295E+04	2.6331E+03
4.900	5.9789E+04	3.7248E+04	2.6493E+03
5.200	5.9713E+04	3.7200E+04	2.6654E+03
5.500	5.9637E+04	3.7153E+04	2.6814E+03
5.800	5.9561E+04	3.7106E+04	2.6974E+03
6.100	5.9485E+04	3.7058E+04	2.7134E+03
6.400	5.9409E+04	3.7011E+04	2.7293E+03
6.700	5.9334E+04	3.6964E+04	2.7452E+03
7.000	5.9258E+04	3.6917E+04	2.7611E+03
7.300	5.9183E+04	3.6870E+04	2.7769E+03
7.600	5.9107E+04	3.6823E+04	2.7927E+03
7.900	5.9032E+04	3.6776E+04	2.8084E+03
8.000	5.9007E+04	3.6761E+04	2.8136E+03
8.300	5.8932E+04	3.6714E+04	2.8293E+03
8.600	5.8857E+04	3.6667E+04	2.8449E+03
8.900	5.8782E+04	3.6621E+04	2.8605E+03
9.200	5.8707E+04	3.6574E+04	2.8761E+03
9.500	5.8632E+04	3.6527E+04	2.8916E+03
9.800	5.8558E+04	3.6481E+04	2.9071E+03
10.100	5.8483E+04	3.6434E+04	2.9225E+03
10.400	5.8409E+04	3.6388E+04	2.9379E+03
16.000	5.7035E+04	3.5532E+04	3.2179E+03
24.000	5.5126E+04	3.4343E+04	3.5946E+03
96.000	4.1555E+04	2.5888E+04	4.3816E+03
720.000	3.5475E+03	2.2101E+03	1.7755E+03

	Environment	CR	MSL Volume 1
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	2.0439E-20	1.4180E-23	1.1306E-04
0.017	5.0090E-13	3.4735E-16	1.0211E-01
0.083	1.5371E-09	2.7985E-13	2.5355E+00
0.333	1.5413E-06	2.7618E-10	4.0357E+01
0.500	1.1330E-05	2.0094E-09	5.6083E+01

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0.750	7.1733E-05	1.2495E-08	6.9775E+01	
1.000	2.3946E-04	4.0923E-08	8.4183E+01	
1.400	9.1817E-04	1.5229E-07	1.0697E+02	
1.700	1.9620E-03	3.1846E-07	1.2385E+02	
2.000	3.6933E-03	5.8705E-07	1.4055E+02	
2.250	5.8405E-03	7.8579E-07	1.4169E+02	
2.400	7.5065E-03	9.4102E-07	1.4092E+02	
2.700	1.1844E-02	1.3440E-06	1.3940E+02	
3.000	1.7737E-02	1.8845E-06	1.3791E+02	
3.300	2.5434E-02	2.5769E-06	1.3644E+02	
3.600	3.5173E-02	3.4330E-06	1.3500E+02	
3.900	4.7181E-02	4.4621E-06	1.3358E+02	
4.000	5.1725E-02	4.8448E-06	1.3312E+02	
4.300	6.7092E-02	6.1149E-06	1.3174E+02	
4.600	8.5214E-02	7.5714E-06	1.3038E+02	
4.900	1.0628E-01	9.2169E-06	1.2905E+02	
5.200	1.3048E-01	1.1053E-05	1.2774E+02	
5.500	1.5797E-01	1.3079E-05	1.2646E+02	
5.800	1.8892E-01	1.5295E-05	1.2520E+02	
6.100	2.2348E-01	1.7698E-05	1.2396E+02	
6.400	2.6179E-01	2.0285E-05	1.2275E+02	
6.700	3.0398E-01	2.3053E-05	1.2156E+02	
7.000	3.5018E-01	2.5996E-05	1.2038E+02	
7.300	4.0049E-01	2.9111E-05	1.1923E+02	
7.600	4.5503E-01	3.2391E-05	1.1810E+02	
7.900	5.1389E-01	3.5831E-05	1.1699E+02	
8.000	5.3449E-01	3.7012E-05	1.1663E+02	
8.300	5.9925E-01	3.5988E-05	1.1555E+02	
8.600	6.6853E-01	3.5262E-05	1.1448E+02	
8.900	7.4240E-01	3.4808E-05	1.1344E+02	
9.200	8.2093E-01	3.4599E-05	1.1241E+02	
9.500	9.0417E-01	3.4614E-05	1.1140E+02	
9.800	9.9219E-01	3.4831E-05	1.1041E+02	
10.100	1.0850E+00	3.5232E-05	1.0944E+02	
10.400	1.1827E+00	3.5800E-05	1.0848E+02	
16.000	3.9130E+00	6.3007E-05	9.3430E+01	
24.000	1.0599E+01	1.1169E-04	7.8804E+01	
96.000	5.7017E+01	5.6450E-05	4.7060E+01	
720.000	2.1963E+02	4.0000E-06	3.8829E+00	

Time (hr)	MSL Volume 2	MSL Volume 3
	I-131 (Curies)	I-131 (Curies)
0.000	1.2817E-09	6.0784E-14
0.017	3.4751E-05	4.9541E-08
0.083	4.2816E-03	3.0441E-05
0.333	2.6726E-01	7.5952E-03
0.500	7.5472E-01	3.5738E-02
0.750	1.6128E+00	1.3344E-01
1.000	2.6099E+00	3.0632E-01
1.400	4.4661E+00	7.6138E-01
1.700	6.0433E+00	1.2624E+00
2.000	7.7582E+00	1.9114E+00
2.250	9.1964E+00	2.5688E+00
2.400	9.9971E+00	3.0103E+00
2.700	1.1459E+01	3.9851E+00
3.000	1.2751E+01	5.0636E+00
3.300	1.3890E+01	6.2261E+00
3.600	1.4892E+01	7.4550E+00
3.900	1.5770E+01	8.7347E+00
4.000	1.6038E+01	9.1702E+00
4.300	1.6771E+01	1.0497E+01
4.600	1.7408E+01	1.1846E+01
4.900	1.7959E+01	1.3206E+01
5.200	1.8433E+01	1.4570E+01
5.500	1.8838E+01	1.5930E+01
5.800	1.9181E+01	1.7279E+01
6.100	1.9468E+01	1.8612E+01
6.400	1.9706E+01	1.9924E+01
6.700	1.9899E+01	2.1211E+01
7.000	2.0053E+01	2.2470E+01
7.300	2.0171E+01	2.3698E+01
7.600	2.0258E+01	2.4893E+01
7.900	2.0317E+01	2.6053E+01
8.000	2.0330E+01	2.6431E+01

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8.300	2.0357E+01	2.7542E+01
8.600	2.0361E+01	2.8615E+01
8.900	2.0347E+01	2.9650E+01
9.200	2.0316E+01	3.0646E+01
9.500	2.0271E+01	3.1602E+01
9.800	2.0212E+01	3.2520E+01
10.100	2.0143E+01	3.3398E+01
10.400	2.0063E+01	3.4238E+01
16.000	1.7819E+01	4.3729E+01
24.000	1.4862E+01	4.4829E+01
96.000	8.5150E+00	2.6010E+01
720.000	6.9752E-01	2.0515E+00

#####

Cumulative Dose Summary

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Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	3.1846E-14	3.2980E-15	4.3353E-15	4.4897E-16	2.4463E-16	8.9136E-18
0.083	9.7650E-11	9.6387E-12	1.3293E-11	1.3122E-12	7.1733E-13	4.0906E-14
0.333	9.7632E-08	8.3509E-09	1.3291E-08	1.1368E-09	2.7502E-09	1.4565E-10
0.500	7.1636E-07	5.7737E-08	9.7521E-08	7.8601E-09	3.0397E-08	1.5625E-09
0.750	4.5235E-06	3.7145E-07	6.1580E-07	5.0567E-08	3.0322E-07	1.5688E-08
1.000	1.5062E-05	1.4145E-06	2.0505E-06	1.9256E-07	1.3948E-06	7.7420E-08
1.400	5.7565E-05	7.5038E-06	7.8366E-06	1.0215E-06	7.6278E-06	5.2690E-07
1.700	1.2267E-04	2.0118E-05	1.6700E-05	2.7387E-06	1.9644E-05	1.6542E-06
2.000	2.3027E-04	4.5845E-05	3.1347E-05	6.2410E-06	4.2879E-05	4.3586E-06
2.250	3.6329E-04	8.2629E-05	4.9457E-05	1.1249E-05	7.2514E-05	8.4466E-06
2.400	4.6627E-04	1.1351E-04	6.3475E-05	1.5452E-05	9.4959E-05	1.1850E-05
2.700	7.3370E-04	1.9980E-04	9.9882E-05	2.7199E-05	1.5384E-04	2.1649E-05
3.000	1.0959E-03	3.2445E-04	1.4918E-04	4.4168E-05	2.3695E-04	3.7112E-05
3.300	1.5674E-03	4.9361E-04	2.1337E-04	6.7197E-05	3.5162E-04	6.0370E-05
3.600	2.1621E-03	7.1242E-04	2.9433E-04	9.6985E-05	5.0584E-04	9.3759E-05
3.900	2.8930E-03	9.8504E-04	3.9384E-04	1.3410E-04	7.0801E-04	1.3971E-04
4.000	3.1691E-03	1.0885E-03	4.3142E-04	1.4818E-04	7.8757E-04	1.5824E-04
4.300	4.1006E-03	1.4377E-03	5.5824E-04	1.9572E-04	1.0674E-03	2.2471E-04
4.600	5.1959E-03	1.8469E-03	7.0734E-04	2.5142E-04	1.4160E-03	3.0929E-04
4.900	6.4655E-03	2.3174E-03	8.8017E-04	3.1547E-04	1.8425E-03	4.1413E-04
5.200	7.9192E-03	2.8498E-03	1.0781E-03	3.8796E-04	2.3562E-03	5.4119E-04
5.500	9.5663E-03	3.4443E-03	1.3023E-03	4.6888E-04	2.9661E-03	6.9220E-04
5.800	1.1415E-02	4.1003E-03	1.5540E-03	5.5819E-04	3.6813E-03	8.6867E-04
6.100	1.3474E-02	4.8171E-03	1.8343E-03	6.5578E-04	4.5107E-03	1.0718E-03
6.400	1.5750E-02	5.5935E-03	2.1441E-03	7.6147E-04	5.4630E-03	1.3026E-03
6.700	1.8250E-02	6.4280E-03	2.4844E-03	8.7507E-04	6.5466E-03	1.5619E-03
7.000	2.0979E-02	7.3190E-03	2.8560E-03	9.9636E-04	7.7697E-03	1.8500E-03
7.300	2.3944E-02	8.2645E-03	3.2596E-03	1.1251E-03	9.1401E-03	2.1674E-03
7.600	2.7150E-02	9.2627E-03	3.6960E-03	1.2610E-03	1.0666E-02	2.5141E-03
7.900	3.0600E-02	1.0311E-02	4.1657E-03	1.4037E-03	1.2353E-02	2.8899E-03
8.000	3.1806E-02	1.0672E-02	4.3298E-03	1.4528E-03	1.2953E-02	3.0217E-03
8.300	3.5589E-02	1.1785E-02	4.5081E-03	1.5495E-03	1.4752E-02	3.4185E-03
8.600	3.9627E-02	1.2944E-02	4.6983E-03	1.6501E-03	1.6504E-02	3.8041E-03
8.900	4.3922E-02	1.4146E-02	4.9006E-03	1.7543E-03	1.8223E-02	4.1764E-03
9.200	4.8477E-02	1.5390E-02	5.1152E-03	1.8619E-03	1.9921E-02	4.5362E-03
9.500	5.3293E-02	1.6674E-02	5.3420E-03	1.9728E-03	2.1610E-02	4.8851E-03
9.800	5.8373E-02	1.7995E-02	5.5814E-03	2.0868E-03	2.3300E-02	5.2250E-03
10.100	6.3719E-02	1.9352E-02	5.8332E-03	2.2037E-03	2.5001E-02	5.5578E-03
10.400	6.9332E-02	2.0743E-02	6.0976E-03	2.3233E-03	2.6722E-02	5.8852E-03
16.000	2.2325E-01	5.1989E-02	1.3348E-02	4.9731E-03	6.8936E-02	1.2819E-02
24.000	5.8580E-01	1.0528E-01	3.0427E-02	9.3566E-03	1.7570E-01	2.4837E-02
96.000	2.8270E+00	3.2318E-01	8.7234E-02	1.6854E-02	5.0783E-01	4.7954E-02
720.000	1.0191E+01	8.6541E-01	1.4132E-01	2.2054E-02	1.0561E+00	7.7996E-02

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
16.0	1.0525E-02	9.0639E-02	1.3324E-02

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 701

NMP2 MSL B.out

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#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:22:09
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#####
File information
#####
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```
Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2 MSL B.psf
Inventory file   = c:\radtrad3.03\nmp2\nmp2.nif
Release file     = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

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#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      #####      # #      # #      # #      #####      #
```

Radtrad 3.03 4/15/2001
 NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
 Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory

Nuclide Inventory File:
 c:\radtrad3.03\nmp2\nmp2.nif

Plant Power Level:
 4.0670E+03

Compartments:
 8

Compartment 1:
 DW

3
 3.0620E+05

1
 0
 0
 0
 0

Compartment 2:
 WW

3
 1.9080E+05

0
 0
 0
 0
 0

Compartment 3:
 Dummy

3
 1.0000E+02

0
 0
 0
 0
 0

Compartment 4:
 Environment

2
 0.0000E+00

0
 0
 0
 0
 0

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---------------------------------	-------------------	---------------------

Compartment 5:

CR

1

3.8100E+05

0

0

1

0

0

Compartment 6:

MSL Volume 1

3

3.5956E+02

0

0

0

0

0

Compartment 7:

MSL Volume 2

3

6.5450E+01

0

0

0

0

0

Compartment 8:

MSL Volume 3

3

4.2816E+02

0

0

0

0

0

Pathways:

14

Pathway 1:

DW to WW

1

2

4

Pathway 2:

WW to DW

2

1

4

Pathway 3:

DW Leakage to RB (Released to Dummy)

1

3

2

Pathway 4:

WW Leakage to RB (Released to Dummy)

2

3

2

Pathway 5:

DW Bypass Pathway 5 to Environment (Released to Dummy)

1

3

2

Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2

3

2

Pathway 7:

DW to MSL Volume 1

1

6

2

Pathway 8:

CALCULATION NO. H21C-106**REV. No. 4****PAGE NO. 703**

MSL Volume 1 to MSL Volume 2

6
7
2

Pathway 9:

MSL Volume 2 to MSL Volume 3

7
8
2

Pathway 10:

MSL Volume 3 to Environment

8
4
2

Pathway 11:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 12:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 13:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 14:

DW to Dummy other MSL flows

1
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

8

Compartment 1:

0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00

CALCULATION NO. H21C-106

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7.2000E+02 0.0000E+00

1

0.0000E+00

0

0

0

0

0

Compartment 2:

0

1

0

0

0

0

0

0

0

Compartment 3:

0

1

0

0

0

0

0

0

0

Compartment 4:

0

1

0

0

0

0

0

0

0

Compartment 5:

1

1

0

0

0

0

1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0

0

Compartment 6:

0

1

0

0

0

0

0

0

0

Compartment 7:

0

1

0

0

0

0

0

0

0

Compartment 8:

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```

0
1
0
0
0
0
0
0
0
0
Pathways:
14
Pathway 1:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  8.9710E+04
7.2000E+02  0.0000E+00
0
Pathway 2:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  1.4400E+05
7.2000E+02  0.0000E+00
0
Pathway 3:
0
0
0
0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00

```

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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5

0.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5

0.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 7:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 8:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 707
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```

0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.6900E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00  8.3300E-01  9.9990E+01  5.0000E+01  0.0000E+00
2.4000E+01  4.1700E-01  9.9990E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0

```

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0
0
0
Pathway 13:
0
0
0
0
0
1
3
0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Pathway 14:
0
0
0
0
0
1
3
0.0000E+00 1.0140E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 5.0700E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Dose Locations:

3
Location 1:
EAB
4
1
2
0.0000E+00 1.1900E-04
7.2000E+02 0.0000E+00
1
2
0.0000E+00 3.5000E-04
7.2000E+02 0.0000E+00
0

Location 2:

LPZ
4
1
5
0.0000E+00 1.6200E-05
8.0000E+00 1.0900E-05
2.4000E+01 4.5900E-06
9.6000E+01 1.3300E-06
7.2000E+02 0.0000E+00
1
4
0.0000E+00 3.5000E-04
8.0000E+00 1.8000E-04
2.4000E+01 2.3000E-04
7.2000E+02 0.0000E+00
0

Location 3:

CR
5
0
1
2

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```
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o645
1
1
1
0
0
End of Scenario File
```

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 710

 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:22:09
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 8

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSL Volume 1

Exit Pathway Number 14: DW to Dummy other MSL flows

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Inlet Pathway Number 14: DW to Dummy other MSL flows

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 10: MSL Volume 3 to Environment

Inlet Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Exit Pathway Number 11: CR Filtered Intake (Pathway 9)

Exit Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 11: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Compartment number 6

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 711
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Name: MSL Volume 1
Compartment volume = 3.5956E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSL Volume 1
Exit Pathway Number 8: MSL Volume 1 to MSL Volume 2

Compartment number 7
Name: MSL Volume 2
Compartment volume = 6.5450E+01 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSL Volume 1 to MSL Volume 2
Exit Pathway Number 9: MSL Volume 2 to MSL Volume 3

Compartment number 8
Name: MSL Volume 3
Compartment volume = 4.2816E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 9: MSL Volume 2 to MSL Volume 3
Exit Pathway Number 10: MSL Volume 3 to Environment

Total number of pathways = 14

CALCULATION NO. H21C-106

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:22:09
 #####
 #####
 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSL Volume 1

Compartment number 7: MSL Volume 2

Compartment number 8: MSL Volume 3

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSL Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSL Volume 1 to MSL Volume 2

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSL Volume 2 to MSL Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: MSL Volume 3 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.3300E-01	9.9990E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9990E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 12: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: DW to Dummy other MSL flows

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0140E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.0700E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:22:09
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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9137E-15	2.6545E-14	2.7545E-15
Accumulated dose (rem)		1.9137E-15	2.6545E-14	2.7545E-15

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.6052E-16	3.6137E-15	3.7498E-16
Accumulated dose (rem)		2.6052E-16	3.6137E-15	3.7498E-16

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.6499E-19	2.0391E-16	7.4247E-18
Accumulated dose (rem)		9.6499E-19	2.0391E-16	7.4247E-18

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		4.0309E+03	0.0000E+00
Elemental I (atoms)		1.3281E+01	0.0000E+00
Organic I (atoms)		8.2150E-01	0.0000E+00
Aerosols (kg)		2.5147E-24	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.7910E-26
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.8550E-26
Total I (Ci)			2.5554E-15

		Deposition	Recirculating
Time (h) =	0.0167	Surfaces	Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 3.0246E+03
Elemental I (atoms)		0.0000E+00 9.9668E+00
Organic I (atoms)		0.0000E+00 6.1651E-01
Aerosols (kg)		0.0000E+00 1.8858E-24

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 1.0082E+03

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Elemental I (atoms)	0.0000E+00	3.3223E+00
Organic I (atoms)	0.0000E+00	2.0550E-01
Aerosols (kg)	0.0000E+00	6.2858E-25

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	1.9641E+00	0.0000E+00
Elemental I (atoms)	6.4721E-03	0.0000E+00
Organic I (atoms)	4.0034E-04	0.0000E+00
Aerosols (kg)	1.2247E-27	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4727E-12	8.1402E-11	8.0501E-12	
Accumulated dose (rem)	5.4746E-12	8.1428E-11	8.0528E-12	

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4502E-13	1.1082E-11	1.0959E-12	
Accumulated dose (rem)	7.4528E-13	1.1085E-11	1.0963E-12	

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5011E-14	5.9792E-13	3.4131E-14	
Accumulated dose (rem)	1.5012E-14	5.9813E-13	3.4139E-14	

CR Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-85m	1.8161E-11	2.2069E-21	1.5635E+04	4.5365E+01	
Kr-85	9.2994E-13	2.3725E-18	1.6809E+07	2.3180E+00	
Kr-88	4.9415E-11	3.9409E-21	2.6969E+04	1.2358E+02	
Xe-133	1.1376E-10	6.0775E-19	2.7518E+06	2.8358E+02	
Xe-133m	3.4888E-12	7.9245E-21	3.5881E+04	8.6971E+00	
Xe-135	4.8095E-11	1.8833E-20	8.4012E+04	1.1979E+02	

CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)	1.9739E+07	0.0000E+00	
Elemental I (atoms)	1.0690E+04	0.0000E+00	
Organic I (atoms)	6.6124E+02	0.0000E+00	
Aerosols (kg)	2.0437E-21	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.0526E-23	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.9019E-23	
Total I (Ci)		2.0218E-12	

	Deposition	Recirculating
Time (h) =	0.0833	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5742E+01
Organic I (atoms)	0.0000E+00	9.7372E-01
Aerosols (kg)	0.0000E+00	2.9992E-24

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6714E+07
Elemental I (atoms)	5.4448E+04	5.5995E+02
Organic I (atoms)	3.3679E+03	3.4636E+01
Aerosols (kg)	1.0315E-20	1.0608E-22

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.0956E+06
Elemental I (atoms)	0.0000E+00	1.0188E+04
Organic I (atoms)	0.0000E+00	6.3020E+02

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Aerosols (kg) 0.0000E+00 1.9301E-21

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	6.9289E+04	0.0000E+00
Elemental I (atoms)	3.7697E+01	0.0000E+00
Organic I (atoms)	2.3318E+00	0.0000E+00
Aerosols (kg)	7.1823E-24	0.0000E+00

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4014E-09	8.1453E-08	6.9774E-09
Accumulated dose (rem)	4.4069E-09	8.1535E-08	6.9854E-09

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9918E-10	1.1089E-08	9.4986E-10
Accumulated dose (rem)	5.9992E-10	1.1100E-08	9.5096E-10

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6433E-11	2.2955E-09	1.2165E-10
Accumulated dose (rem)	4.6448E-11	2.2961E-09	1.2168E-10

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	7.1763E-09	3.5352E-19	2.5650E+06	5.9221E+04
Kr-85m	1.7377E-08	2.1116E-18	1.4960E+07	1.4187E+05
Kr-85	9.2489E-10	2.3596E-15	1.6717E+10	7.4940E+03
Kr-87	3.0783E-08	1.0867E-18	7.5224E+06	2.5621E+05
Kr-88	4.6238E-08	3.6875E-18	2.5234E+07	3.7916E+05
Rb-88	5.9682E-09	4.9440E-20	3.3834E+05	3.5414E+04
I-131	2.3066E-10	1.8605E-18	8.5529E+06	1.8707E+03
I-132	3.0875E-10	2.9911E-20	1.3646E+05	2.5353E+03
I-133	4.7354E-10	4.1803E-19	1.8928E+06	3.8462E+03
I-134	4.2205E-10	1.5821E-20	7.1101E+04	3.5590E+03
I-135	4.3697E-10	1.2443E-19	5.5505E+05	3.5616E+03
Xe-133	1.1312E-07	6.0431E-16	2.7363E+09	9.1660E+05
Xe-133m	3.4674E-09	7.8759E-18	3.5661E+07	2.8100E+04
Xe-135	4.8705E-08	1.9072E-17	8.5078E+07	3.9348E+05
Xe-135m	1.6713E-08	1.8360E-19	8.1900E+05	1.4264E+05
Xe-138	3.8247E-08	3.9860E-19	1.7394E+06	3.6036E+05
Cs-134	2.0564E-13	1.5894E-19	7.1428E+05	1.6675E+00
Cs-137	1.5965E-13	1.8354E-18	8.0680E+06	1.2946E+00

CR Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	1.9627E+10	0.0000E+00
Elemental I (atoms)	1.0517E+07	0.0000E+00
Organic I (atoms)	6.5051E+05	0.0000E+00
Aerosols (kg)	2.0537E-18	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.0067E-20
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.8181E-20
Total I (Ci)		1.8720E-09

Deposition Recirculating

Time (h) =	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.1963E+04
Organic I (atoms)	0.0000E+00	3.8327E+03
Aerosols (kg)	0.0000E+00	1.2030E-20

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6796E+10
Elemental I (atoms)	5.4481E+07	5.5032E+05

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Organic I (atoms)	3.3700E+06	3.4041E+04
Aerosols (kg)	1.0369E-17	1.0474E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1103E+09
Elemental I (atoms)	0.0000E+00	1.0191E+07
Organic I (atoms)	0.0000E+00	6.3037E+05
Aerosols (kg)	0.0000E+00	1.9396E-18

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	2.7635E+08	0.0000E+00
Elemental I (atoms)	1.4836E+05	0.0000E+00
Organic I (atoms)	9.1768E+03	0.0000E+00
Aerosols (kg)	2.8804E-20	0.0000E+00

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5007E-08	5.1733E-07	4.1354E-08
Accumulated dose (rem)	2.9414E-08	5.9886E-07	4.8339E-08

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4043E-09	7.0426E-08	5.6297E-09
Accumulated dose (rem)	4.0042E-09	8.1526E-08	6.5806E-09

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1669E-10	2.3104E-08	1.1847E-09
Accumulated dose (rem)	4.6314E-10	2.5400E-08	1.3064E-09

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	5.0212E-08	2.4736E-18	1.7947E+07	6.1243E+05
Kr-85m	1.2609E-07	1.5321E-17	1.0855E+08	1.5134E+06
Kr-85	6.8863E-09	1.7568E-14	1.2447E+11	8.1724E+04
Kr-87	2.0928E-07	7.3885E-18	5.1143E+07	2.5856E+06
Kr-88	3.3054E-07	2.6360E-17	1.8039E+08	3.9934E+06
Rb-88	5.9308E-08	4.9130E-19	3.3621E+06	5.4727E+05
I-131	1.6799E-09	1.3550E-17	6.2292E+07	2.0195E+04
I-132	2.1565E-09	2.0892E-19	9.5314E+05	2.6417E+04
I-133	3.4318E-09	3.0295E-18	1.3717E+07	4.1345E+04
I-134	2.6958E-09	1.0106E-19	4.5416E+05	3.4370E+04
I-135	3.1292E-09	8.9104E-19	3.9748E+06	3.7898E+04
Xe-133	8.4206E-07	4.4986E-15	2.0369E+10	9.9943E+06
Xe-133m	2.5804E-08	5.8610E-17	2.6538E+08	3.0631E+05
Xe-135	3.6642E-07	1.4349E-16	6.4007E+08	4.3314E+06
Xe-135m	1.0859E-07	1.1928E-18	5.3211E+06	1.3827E+06
Xe-138	1.7476E-07	1.8213E-18	7.9481E+06	2.6132E+06
Cs-134	1.4968E-12	1.1569E-18	5.1992E+06	1.8002E+01
Cs-136	4.5620E-13	6.2245E-21	2.7562E+04	5.4876E+00
Cs-137	1.1621E-12	1.3360E-17	5.8727E+07	1.3976E+01

CR Transport Group Inventory:

Time (h) = 0.5000	Atmosphere	Sump
Noble gases (atoms)	1.4612E+11	0.0000E+00
Elemental I (atoms)	7.6280E+07	0.0000E+00
Organic I (atoms)	4.8125E+06	0.0000E+00
Aerosols (kg)	1.5080E-17	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.1849E-19
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7633E-19
Total I (Ci)		1.3093E-08

	Deposition Surfaces	Recirculating Filter
Time (h) = 0.5000		

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Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.8555E+05
Organic I (atoms)	0.0000E+00	4.2695E+04
Aerosols (kg)	0.0000E+00	1.3453E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2592E+11
Elemental I (atoms)	3.9946E+08	4.0350E+06
Organic I (atoms)	2.5192E+07	2.5447E+05
Aerosols (kg)	7.6249E-17	7.7020E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3318E+10
Elemental I (atoms)	0.0000E+00	7.4722E+07
Organic I (atoms)	0.0000E+00	4.7123E+06
Aerosols (kg)	0.0000E+00	1.4263E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	3.0951E+09	0.0000E+00
Elemental I (atoms)	1.6414E+06	0.0000E+00
Organic I (atoms)	1.0223E+05	0.0000E+00
Aerosols (kg)	3.2210E-19	0.0000E+00

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2570E-05	1.9401E-04	3.8674E-05
Accumulated dose (rem)	3.2600E-05	1.9461E-04	3.8722E-05

LPZ Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4339E-06	2.6411E-05	5.2649E-06
Accumulated dose (rem)	4.4379E-06	2.6493E-05	5.2714E-06

CR Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9495E-06	3.6137E-05	3.6740E-06
Accumulated dose (rem)	1.9499E-06	3.6162E-05	3.6754E-06

CR Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	5.7556E-05	2.8354E-15	2.0572E+10	2.9345E+09
Kr-85m	2.0041E-04	2.4353E-14	1.7254E+11	9.6202E+09
Kr-85	1.3805E-05	3.5220E-11	2.4953E+14	6.3590E+08
Kr-87	1.8522E-04	6.5391E-15	4.5264E+10	9.9240E+09
Kr-88	4.5948E-04	3.6644E-14	2.5076E+11	2.2601E+10
Rb-86	3.6415E-12	4.4754E-20	3.1339E+05	2.3665E+02
Rb-88	2.5295E-04	2.0954E-15	1.4340E+10	7.0399E+09
Sr-89	3.3825E-11	1.1643E-18	7.8782E+06	1.5982E+03
Sr-90	3.6227E-12	2.6558E-17	1.7770E+08	1.7113E+02
Sr-91	3.6072E-11	9.9510E-21	6.5853E+04	1.7368E+03
Sr-92	2.5911E-11	2.0614E-21	1.3494E+04	1.3100E+03
Y-91	4.3341E-13	1.7673E-20	1.1695E+05	2.0382E+01
Zr-95	5.0062E-13	2.3303E-20	1.4772E+05	2.3652E+01
Nb-95	4.9418E-13	1.2638E-20	8.0113E+04	2.3344E+01
Mo-99	6.1934E-12	1.2913E-20	7.8552E+04	2.9338E+02
Ru-103	5.4678E-12	1.6942E-19	9.9055E+05	2.5835E+02
Ru-106	2.2761E-12	6.8034E-19	3.8652E+06	1.0753E+02
Rh-105	3.6192E-12	4.2879E-21	2.4593E+04	1.7100E+02
Sb-127	6.2065E-12	2.3241E-20	1.1020E+05	2.9377E+02
Sb-129	1.4123E-11	2.5115E-21	1.1725E+04	6.9595E+02
Te-127	6.2206E-12	2.3571E-21	1.1177E+04	2.9284E+02

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Te-127m	1.0657E-12	1.1298E-19	5.3572E+05	5.0341E+01
Te-129m	3.4950E-12	1.1602E-19	5.4160E+05	1.6510E+02
Te-131m	1.2643E-11	1.5855E-20	7.2884E+04	6.0083E+02
Te-132	9.3328E-11	3.0741E-19	1.4025E+06	4.4190E+03
I-131	4.9633E-07	4.0035E-15	1.8404E+10	3.0660E+07
I-132	4.3979E-07	4.2606E-17	1.9438E+08	2.9577E+07
I-133	9.6958E-07	8.5591E-16	3.8755E+09	6.0515E+07
I-134	2.4457E-07	9.1677E-18	4.1201E+07	2.0355E+07
I-135	7.9414E-07	2.2613E-16	1.0087E+09	5.0822E+07
Xe-133	1.6778E-03	8.9636E-12	4.0587E+13	7.7382E+10
Xe-133m	5.0958E-05	1.1575E-13	5.2409E+11	2.3544E+09
Xe-135	6.9816E-04	2.7339E-13	1.2195E+12	3.2649E+10
Xe-135m	1.9224E-05	2.1118E-16	9.4203E+08	1.5811E+09
Xe-138	4.3307E-06	4.5134E-17	1.9696E+08	5.8079E+08
Cs-134	3.6525E-10	2.8230E-16	1.2687E+09	2.3724E+04
Cs-136	1.1096E-10	1.5140E-18	6.7039E+06	7.2127E+03
Cs-137	2.8358E-10	3.2603E-15	1.4331E+10	1.8419E+04
Ba-140	4.9586E-11	6.7733E-19	2.9135E+06	2.3438E+03
La-140	1.5166E-12	2.7286E-21	1.1737E+04	6.1108E+01
Ce-141	1.1755E-12	4.1253E-20	1.7619E+05	5.5536E+01
Ce-144	9.4239E-13	2.9547E-19	1.2357E+06	4.4520E+01
Pr-143	4.5062E-13	6.6918E-21	2.8181E+04	2.1268E+01
Np-239	1.3088E-11	5.6415E-20	1.4215E+05	6.2024E+02
Pu-238	2.9287E-15	1.7107E-19	4.3287E+05	1.3835E-01
Pu-239	2.9541E-16	4.7527E-18	1.1976E+07	1.3955E-02
Pu-240	5.2174E-16	2.2907E-19	5.7480E+05	2.4647E-02
Pu-241	1.1591E-13	1.1721E-18	2.9289E+06	5.4758E+00
Am-241	6.5595E-17	1.9147E-20	4.7845E+04	3.0984E-03
Cm-242	1.8009E-14	5.4403E-21	1.3538E+04	8.5076E-01
Cm-244	1.1911E-15	1.4552E-20	3.5917E+04	5.6270E-02

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	2.9235E+14	0.0000E+00	
Elemental I (atoms)	1.8878E+10	0.0000E+00	
Organic I (atoms)	4.5723E+09	0.0000E+00	
Aerosols (kg)	5.6924E-15	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.3361E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.8006E-17	
Total I (Ci)		2.9444E-06	

Deposition Recirculating

Time (h) =	2.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	8.6918E+08	
Organic I (atoms)	0.0000E+00	1.6151E+08	
Aerosols (kg)	0.0000E+00	2.1865E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6510E+14
Elemental I (atoms)	1.1153E+11	1.1266E+09
Organic I (atoms)	2.6127E+10	2.6391E+08
Aerosols (kg)	2.1104E-14	2.1317E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.9092E+13
Elemental I (atoms)	0.0000E+00	2.0862E+10
Organic I (atoms)	0.0000E+00	4.8872E+09
Aerosols (kg)	0.0000E+00	3.9477E-15

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	2.1695E+13	0.0000E+00
Elemental I (atoms)	2.0811E+09	0.0000E+00
Organic I (atoms)	3.8670E+08	0.0000E+00
Aerosols (kg)	5.2352E-16	0.0000E+00

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EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7613E-05	1.1293E-04	3.1160E-05
Accumulated dose (rem)		6.0212E-05	3.0753E-04	6.9882E-05

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.7590E-06	1.5373E-05	4.2420E-06
Accumulated dose (rem)		8.1970E-06	4.1866E-05	9.5134E-06

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9255E-06	2.5070E-05	3.4547E-06
Accumulated dose (rem)		3.8755E-06	6.1232E-05	7.1300E-06

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		8.4295E-05	4.1526E-15	3.0129E+10	5.4647E+09
Kr-85m		3.0996E-04	3.7664E-14	2.6684E+11	1.8686E+10
Kr-85		2.2193E-05	5.6619E-11	4.0114E+14	1.2733E+09
Kr-87		2.5983E-04	9.1730E-15	6.3495E+10	1.7886E+10
Kr-88		6.9493E-04	5.5421E-14	3.7926E+11	4.3143E+10
Rb-86		4.7161E-12	5.7960E-20	4.0586E+05	3.8141E+02
Rb-88		4.2888E-04	3.5528E-15	2.4313E+10	1.6069E+10
Sr-89		5.1011E-11	1.7558E-18	1.1881E+07	3.0931E+03
Sr-90		5.4640E-12	4.0056E-17	2.6803E+08	3.3125E+02
Sr-91		5.3424E-11	1.4738E-20	9.7529E+04	3.3160E+03
Sr-92		3.6660E-11	2.9166E-21	1.9092E+04	2.4175E+03
Y-91		6.5593E-13	2.6747E-20	1.7700E+05	3.9556E+01
Zr-95		7.5499E-13	3.5144E-20	2.2278E+05	4.5778E+01
Nb-95		7.4537E-13	1.9062E-20	1.2083E+05	4.5186E+01
Mo-99		9.3170E-12	1.9426E-20	1.1817E+05	5.6675E+02
Ru-103		8.2455E-12	2.5548E-19	1.4937E+06	5.0000E+02
Ru-106		3.4330E-12	1.0261E-18	5.8297E+06	2.0813E+02
Rh-105		5.4528E-12	6.4603E-21	3.7052E+04	3.3076E+02
Sb-127		9.3436E-12	3.4988E-20	1.6591E+05	5.6782E+02
Sb-129		2.0464E-11	3.6391E-21	1.6989E+04	1.3072E+03
Te-127		9.3805E-12	3.5544E-21	1.6854E+04	5.6687E+02
Te-127m		1.6073E-12	1.7040E-19	8.0802E+05	9.7443E+01
Te-129m		5.2713E-12	1.7498E-19	8.1686E+05	3.1957E+02
Te-131m		1.8959E-11	2.3776E-20	1.0930E+05	1.1579E+03
Te-132		1.4045E-10	4.6264E-19	2.1106E+06	8.5392E+03
I-131		6.6524E-07	5.3660E-15	2.4668E+10	5.0855E+07
I-132		5.5590E-07	5.3855E-17	2.4570E+08	4.6979E+07
I-133		1.2899E-06	1.1387E-15	5.1558E+09	9.9813E+07
I-134		2.6924E-07	1.0093E-17	4.5358E+07	2.9355E+07
I-135		1.0378E-06	2.9550E-16	1.3182E+09	8.2712E+07
Xe-133		2.6940E-03	1.4393E-11	6.5169E+13	1.5480E+11
Xe-133m		8.1681E-05	1.8553E-13	8.4007E+11	4.7038E+09
Xe-135		1.1060E-03	4.3309E-13	1.9320E+12	6.4652E+10
Xe-135m		2.0195E-05	2.2184E-16	9.8960E+08	2.3193E+09
Xe-138		3.3476E-06	3.4889E-17	1.5225E+08	7.1943E+08
Cs-134		4.7321E-10	3.6574E-16	1.6437E+09	3.8246E+04
Cs-136		1.4368E-10	1.9604E-18	8.6807E+06	1.1623E+04
Cs-137		3.6741E-10	4.2240E-15	1.8567E+10	2.9694E+04
Ba-140		7.4748E-11	1.0210E-18	4.3920E+06	4.5349E+03
La-140		2.5484E-12	4.5849E-21	1.9722E+04	1.3027E+02
Ce-141		1.7727E-12	6.2213E-20	2.6571E+05	1.0749E+02
Ce-143		1.6499E-12	2.4845E-21	1.0463E+04	1.0070E+02
Ce-144		1.4214E-12	4.4564E-19	1.8637E+06	8.6172E+01
Pr-143		6.8009E-13	1.0100E-20	4.2532E+04	4.1186E+01
Nd-147		2.7454E-13	3.3936E-21	1.3903E+04	1.6658E+01
Np-239		1.9680E-11	8.4829E-20	2.1375E+05	1.1978E+03
Pu-238		4.4173E-15	2.5803E-19	6.5288E+05	2.6780E-01
Pu-239		4.4558E-16	7.1687E-18	1.8063E+07	2.7012E-02
Pu-240		7.8694E-16	3.4551E-19	8.6696E+05	4.7708E-02
Pu-241		1.7483E-13	1.7679E-18	4.4177E+06	1.0599E+01
Am-241		9.8943E-17	2.8881E-20	7.2169E+04	5.9977E-03
Cm-242		2.7161E-14	8.2051E-21	2.0418E+04	1.6467E+00

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Cm-244 1.7966E-15 2.1949E-20 5.4172E+04 1.0892E-01

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	4.6982E+14	0.0000E+00	
Elemental I (atoms)	2.4523E+10	0.0000E+00	
Organic I (atoms)	6.8135E+09	0.0000E+00	
Aerosols (kg)	8.2208E-15	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	8.4679E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0390E-16	
Total I (Ci)		3.8180E-06	

		Deposition	Recirculating
Time (h) =	2.2500	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.4368E+09	
Organic I (atoms)	0.0000E+00	3.0903E+08	
Aerosols (kg)	0.0000E+00	3.9301E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway	
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3479E+14	
Elemental I (atoms)	1.5040E+11	1.5192E+09	
Organic I (atoms)	4.0159E+10	4.0565E+08	
Aerosols (kg)	2.8397E-14	2.8684E-16	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway	
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.0517E+13	
Elemental I (atoms)	0.0000E+00	2.8134E+10	
Organic I (atoms)	0.0000E+00	7.5120E+09	
Aerosols (kg)	0.0000E+00	5.3119E-15	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway	
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	4.5198E+13	0.0000E+00	
Elemental I (atoms)	3.4401E+09	0.0000E+00	
Organic I (atoms)	7.3991E+08	0.0000E+00	
Aerosols (kg)	9.4098E-16	0.0000E+00	

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3442E-05	8.7550E-05	2.6190E-05
Accumulated dose (rem)		8.3654E-05	3.9508E-04	9.6073E-05

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1912E-06	1.1919E-05	3.5654E-06
Accumulated dose (rem)		1.1388E-05	5.3785E-05	1.3079E-05

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6184E-06	1.9010E-05	2.8786E-06
Accumulated dose (rem)		5.4939E-06	8.0242E-05	1.0009E-05

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		1.0669E-04	5.2558E-15	3.8134E+10	7.5209E+09
Kr-85m		4.0534E-04	4.9254E-14	3.4896E+11	2.6374E+10
Kr-85		2.9704E-05	7.5780E-11	5.3689E+14	1.8303E+09
Kr-87		3.2046E-04	1.1314E-14	7.8312E+10	2.4142E+10
Kr-88		8.9668E-04	7.1510E-14	4.8937E+11	6.0261E+10
Rb-86		5.5186E-12	6.7824E-20	4.7493E+05	4.8793E+02
Rb-88		5.6292E-04	4.6632E-15	3.1912E+10	2.4210E+10

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Sr-89	6.5301E-11	2.2477E-18	1.5209E+07	4.3296E+03
Sr-90	6.9953E-12	5.1282E-17	3.4314E+08	4.6371E+02
Sr-91	6.7651E-11	1.8662E-20	1.2350E+05	4.6038E+03
Sr-92	4.5168E-11	3.5935E-21	2.3522E+04	3.2891E+03
Y-91	8.4139E-13	3.4309E-20	2.2705E+05	5.5459E+01
Y-92	1.5045E-11	1.5636E-21	1.0235E+04	8.4069E+02
Zr-95	9.6551E-13	4.4990E-20	2.8519E+05	6.4079E+01
Nb-95	9.5426E-13	2.4404E-20	1.5470E+05	6.3254E+01
Mo-99	1.1909E-11	2.4831E-20	1.5105E+05	7.9242E+02
Tc-99m	1.0735E-11	2.0416E-21	1.2419E+04	7.0845E+02
Ru-103	1.0555E-11	3.2705E-19	1.9122E+06	6.9987E+02
Ru-106	4.3950E-12	1.3137E-18	7.4633E+06	2.9135E+02
Rh-105	6.9759E-12	8.2647E-21	4.7401E+04	4.6282E+02
Sb-127	1.1949E-11	4.4743E-20	2.1216E+05	7.9419E+02
Sb-129	2.5576E-11	4.5482E-21	2.1232E+04	1.7972E+03
Te-127	1.2008E-11	4.5499E-21	2.1575E+04	7.9356E+02
Te-127m	2.0578E-12	2.1816E-19	1.0345E+06	1.3641E+02
Te-129m	6.7484E-12	2.2401E-19	1.0458E+06	4.4735E+02
Te-131m	2.4188E-11	3.0333E-20	1.3944E+05	1.6167E+03
Te-132	1.7958E-10	5.9150E-19	2.6986E+06	1.1942E+04
I-131	7.9738E-07	6.4318E-15	2.9567E+10	6.6165E+07
I-132	6.4471E-07	6.2459E-17	2.8495E+08	5.9601E+07
I-133	1.5392E-06	1.3587E-15	6.1523E+09	1.2943E+08
I-134	2.8677E-07	1.0750E-17	4.8312E+07	3.5195E+07
I-135	1.2251E-06	3.4885E-16	1.5562E+09	1.0641E+08
Xe-133	3.6033E-03	1.9250E-11	8.7163E+13	2.2239E+11
Xe-133m	1.0914E-04	2.4790E-13	1.1225E+12	6.7520E+09
Xe-135	1.4679E-03	5.7479E-13	2.5641E+12	9.2308E+10
Xe-135m	2.1719E-05	2.3858E-16	1.0643E+09	2.7954E+09
Xe-138	2.8876E-06	3.0094E-17	1.3133E+08	7.8710E+08
Cs-134	5.5387E-10	4.2808E-16	1.9239E+09	4.8936E+04
Cs-136	1.6811E-10	2.2938E-18	1.0157E+07	1.4868E+04
Cs-137	4.3004E-10	4.9440E-15	2.1732E+10	3.7994E+04
Ba-140	9.5664E-11	1.3067E-18	5.6209E+06	6.3465E+03
La-140	3.4568E-12	6.2193E-21	2.6752E+04	1.9240E+02
Ce-141	2.2693E-12	7.9641E-20	3.4015E+05	1.5045E+02
Ce-143	2.1057E-12	3.1708E-21	1.3353E+04	1.4064E+02
Ce-144	1.8197E-12	5.7052E-19	2.3859E+06	1.2063E+02
Pr-143	8.7101E-13	1.2935E-20	5.4472E+04	5.7672E+01
Nd-147	3.5134E-13	4.3430E-21	1.7792E+04	2.3312E+01
Np-239	2.5149E-11	1.0840E-19	2.7315E+05	1.6744E+03
Pu-238	5.6553E-15	3.3034E-19	8.3586E+05	3.7488E-01
Pu-239	5.7047E-16	9.1780E-18	2.3126E+07	3.7814E-02
Pu-240	1.0075E-15	4.4234E-19	1.1099E+06	6.6784E-02
Pu-241	2.2383E-13	2.2634E-18	5.6557E+06	1.4837E+01
Am-241	1.2668E-16	3.6977E-20	9.2399E+04	8.3962E-03
Cm-242	3.4772E-14	1.0504E-20	2.6140E+04	2.3051E+00
Cm-244	2.3001E-15	2.8100E-20	6.9354E+04	1.5247E-01

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump	
Noble gases (atoms)	6.2870E+14	0.0000E+00		
Elemental I (atoms)	2.8763E+10	0.0000E+00		
Organic I (atoms)	8.7337E+09	0.0000E+00		
Aerosols (kg)	1.0133E-14	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0133E-16		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.2410E-16		
Total I (Ci)		4.4932E-06		

Deposition Recirculating

Time (h) =	2.4000	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	1.8567E+09		
Organic I (atoms)	0.0000E+00	4.3119E+08		
Aerosols (kg)	0.0000E+00	5.3219E-16		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway		
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8635E+14	
Elemental I (atoms)	1.7948E+11	1.8129E+09	
Organic I (atoms)	5.2103E+10	5.2629E+08	
Aerosols (kg)	3.3839E-14	3.4181E-16	

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CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0858E+14
Elemental I (atoms)	0.0000E+00	3.3572E+10
Organic I (atoms)	0.0000E+00	9.7462E+09
Aerosols (kg)	0.0000E+00	6.3299E-15

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	
	Filtered	Transported
Noble gases (atoms)	6.5818E+13	0.0000E+00
Elemental I (atoms)	4.4456E+09	0.0000E+00
Organic I (atoms)	1.0324E+09	0.0000E+00
Aerosols (kg)	1.2742E-15	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6082E-04	2.3173E-03	8.3342E-04
Accumulated dose (rem)		8.4448E-04	2.7124E-03	9.2949E-04

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0357E-04	3.1547E-04	1.1346E-04
Accumulated dose (rem)		1.1496E-04	3.6925E-04	1.2654E-04

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.2427E-05	5.9090E-04	1.2464E-04
Accumulated dose (rem)		7.7921E-05	6.7114E-04	1.3464E-04

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	6.5037E-04	3.2039E-14	2.3246E+11	8.4175E+10
Kr-85m	3.5018E-03	4.2552E-13	3.0148E+12	3.9102E+11
Kr-85	3.2871E-04	8.3860E-10	5.9414E+15	3.3330E+10
Kr-87	1.4826E-03	5.2340E-14	3.6230E+11	2.1803E+11
Kr-88	6.7148E-03	5.3550E-13	3.6646E+12	7.9517E+11
Rb-86	2.2232E-11	2.7323E-19	1.9133E+06	3.2900E+03
Rb-88	5.1812E-03	4.2921E-14	2.9372E+11	4.2732E+11
Sr-89	4.5798E-10	1.5764E-17	1.0667E+08	5.4467E+04
Sr-90	4.9104E-11	3.5998E-16	2.4087E+09	5.8377E+03
Sr-91	4.2256E-10	1.1657E-19	7.7143E+05	5.2838E+04
Sr-92	2.1058E-10	1.6753E-20	1.0966E+05	3.0113E+04
Y-90	2.0329E-12	3.7366E-21	2.5003E+04	2.0108E+02
Y-91	6.0289E-12	2.4584E-19	1.6269E+06	7.0988E+02
Y-92	1.3740E-10	1.4279E-20	9.3467E+04	1.4586E+04
Zr-95	6.7797E-12	3.1559E-19	2.0005E+06	8.0624E+02
Zr-97	5.5604E-12	2.9087E-21	1.8058E+04	6.7994E+02
Nb-95	6.6986E-12	1.7131E-19	1.0859E+06	7.9632E+02
Mo-99	8.2206E-11	1.7140E-19	1.0426E+06	9.8433E+03
Tc-99m	7.5021E-11	1.4267E-20	8.6788E+04	8.8874E+03
Ru-103	7.4006E-11	2.2931E-18	1.3407E+07	8.8025E+03
Ru-105	2.8317E-11	4.2126E-21	2.4161E+04	3.7584E+03
Ru-106	3.0848E-11	9.2204E-18	5.2384E+07	3.6675E+03
Rh-105	4.8450E-11	5.7402E-20	3.2922E+05	5.7841E+03
Sb-127	8.2875E-11	3.1033E-19	1.4716E+06	9.9030E+03
Sb-129	1.3889E-10	2.4698E-20	1.1530E+05	1.8493E+04
Te-127	8.4126E-11	3.1877E-20	1.5115E+05	9.9739E+03
Te-127m	1.4445E-11	1.5314E-18	7.2618E+06	1.7173E+03
Te-129	1.7536E-10	8.3737E-21	3.9091E+04	2.1966E+04
Te-129m	4.7355E-11	1.5719E-18	7.3382E+06	5.6305E+03
Te-131m	1.6363E-10	2.0520E-19	9.4333E+05	1.9763E+04
Te-132	1.2428E-09	4.0937E-18	1.8676E+07	1.4865E+05
I-131	4.1508E-06	3.3481E-14	1.5392E+11	5.4660E+08
I-132	2.3979E-06	2.3231E-16	1.0598E+09	3.7702E+08
I-133	7.6387E-06	6.7431E-15	3.0532E+10	1.0295E+09

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I-134	4.2366E-07	1.5881E-17	7.1372E+07	1.1849E+08
I-135	5.4224E-06	1.5440E-15	6.8877E+09	7.7379E+08
Xe-133	3.9568E-02	2.1139E-10	9.5714E+14	4.0239E+12
Xe-133m	1.1853E-03	2.6922E-12	1.2190E+13	1.2105E+11
Xe-135	1.4723E-02	5.7655E-12	2.5719E+13	1.5528E+12
Xe-135m	4.3554E-05	4.7844E-16	2.1343E+09	1.0781E+10
Xe-138	2.9471E-07	3.0714E-18	1.3403E+07	1.0814E+09
Cs-134	2.2367E-09	1.7287E-15	7.7691E+09	3.3057E+05
Cs-136	6.7655E-10	9.2309E-18	4.0875E+07	1.0017E+05
Cs-137	1.7367E-09	1.9966E-14	8.7766E+10	2.5667E+05
Ba-139	9.2827E-11	5.6751E-21	2.4587E+04	1.6221E+04
Ba-140	6.6910E-10	9.1396E-18	3.9314E+07	7.9667E+04
La-140	3.9650E-11	7.1334E-20	3.0685E+05	3.8461E+03
Ce-141	1.5913E-11	5.5849E-19	2.3853E+06	1.8926E+03
Ce-143	1.4293E-11	2.1522E-20	9.0637E+04	1.7238E+03
Ce-144	1.2771E-11	4.0042E-18	1.6746E+07	1.5184E+03
Pr-143	6.1390E-12	9.1166E-20	3.8393E+05	7.2836E+02
Nd-147	2.4560E-12	3.0358E-20	1.2437E+05	2.9250E+02
Np-239	1.7310E-10	7.4617E-19	1.8801E+06	2.0752E+04
Pu-238	3.9699E-14	2.3189E-18	5.8675E+06	4.7195E+00
Pu-239	4.0054E-15	6.4441E-17	1.6237E+08	4.7613E-01
Pu-240	7.0722E-15	3.1051E-18	7.7913E+06	8.4076E-01
Pu-241	1.5712E-12	1.5888E-17	3.9701E+07	1.8679E+02
Am-241	8.8966E-16	2.5969E-19	6.4892E+05	1.0574E-01
Cm-242	2.4402E-13	7.3716E-20	1.8344E+05	2.9013E+01
Cm-244	1.6146E-14	1.9725E-19	4.8684E+05	1.9194E+00

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	6.9437E+15	0.0000E+00	
Elemental I (atoms)	1.1771E+11	0.0000E+00	
Organic I (atoms)	7.4300E+10	0.0000E+00	
Aerosols (kg)	6.5223E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.1851E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.2448E-16	
Total I (Ci)		2.0034E-05	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3070E+10
Organic I (atoms)	0.0000E+00	6.0579E+09
Aerosols (kg)	0.0000E+00	5.6688E-15

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.9146E+15
Elemental I (atoms)	8.3187E+11	8.4027E+09
Organic I (atoms)	4.8570E+11	4.9061E+09
Aerosols (kg)	1.5578E-13	1.5735E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2805E+15
Elemental I (atoms)	0.0000E+00	1.5561E+11
Organic I (atoms)	0.0000E+00	9.0854E+10
Aerosols (kg)	0.0000E+00	2.9139E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	1.2444E+15	0.0000E+00
Elemental I (atoms)	3.1294E+10	0.0000E+00
Organic I (atoms)	1.4505E+10	0.0000E+00
Aerosols (kg)	1.3573E-14	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	7.5821E-03	2.5118E-02	8.3653E-03
Accumulated dose (rem)	8.4266E-03	2.7831E-02	9.2947E-03

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0322E-03	3.4195E-03	1.1388E-03
Accumulated dose (rem)		1.1472E-03	3.7887E-03	1.2653E-03

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4204E-03	1.0599E-02	2.4836E-03
Accumulated dose (rem)		1.4983E-03	1.1270E-02	2.6183E-03

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m		2.1674E-03	1.0677E-13	7.7469E+11	9.3659E+11
Kr-85m		2.7905E-02	3.3908E-12	2.4023E+13	8.2289E+12
Kr-85		4.8638E-03	1.2409E-08	8.7913E+16	1.1426E+12
Kr-87		2.4791E-03	8.7520E-14	6.0581E+11	1.5412E+12
Kr-88		3.7429E-02	2.9849E-12	2.0427E+13	1.2787E+13
Rb-86		1.1190E-10	1.3752E-18	9.6299E+06	3.7688E+04
Rb-88		3.5228E-02	2.9182E-13	1.9970E+12	9.1934E+12
Sr-89		3.1260E-09	1.0760E-16	7.2807E+08	9.4907E+05
Sr-90		3.3594E-10	2.4628E-15	1.6479E+10	1.0190E+05
Sr-91		2.1592E-09	5.9563E-19	3.9417E+06	7.4148E+05
Sr-92		5.1789E-10	4.1202E-20	2.6970E+05	2.5317E+05
Y-90		2.7127E-11	4.9860E-20	3.3363E+05	6.5272E+03
Y-91		4.3146E-11	1.7594E-18	1.1643E+07	1.2853E+04
Y-92		8.7241E-10	9.0665E-20	5.9347E+05	2.8178E+05
Y-93		2.5359E-11	7.6008E-21	4.9218E+04	8.6423E+03
Zr-95		4.6299E-11	2.1551E-18	1.3662E+07	1.4054E+04
Zr-97		3.2285E-11	1.6888E-20	1.0485E+05	1.0489E+04
Nb-95		4.5828E-11	1.1720E-18	7.4292E+06	1.3900E+04
Mo-99		5.3927E-10	1.1244E-18	6.8395E+06	1.6643E+05
Tc-99m		5.0344E-10	9.5743E-20	5.8240E+05	1.5318E+05
Ru-103		5.0482E-10	1.5642E-17	9.1453E+07	1.5331E+05
Ru-105		1.0375E-10	1.5434E-20	8.8522E+04	4.1510E+04
Ru-106		2.1097E-10	6.3060E-17	3.5826E+08	6.4001E+04
Rh-105		3.1730E-10	3.7592E-19	2.1561E+06	9.8087E+04
Sb-127		5.5022E-10	2.0603E-18	9.7698E+06	1.6897E+05
Sb-129		5.0012E-10	8.8935E-20	4.1518E+05	2.0177E+05
Te-127		5.7067E-10	2.1624E-19	1.0254E+06	1.7313E+05
Te-127m		9.8827E-11	1.0477E-17	4.9681E+07	2.9976E+04
Te-129		7.5472E-10	3.6038E-20	1.6824E+05	2.7296E+05
Te-129m		3.2339E-10	1.0735E-17	5.0113E+07	9.8168E+04
Te-131m		1.0206E-09	1.2799E-18	5.8839E+06	3.2168E+05
Te-132		8.2064E-09	2.7031E-17	1.2332E+08	2.5258E+06
I-131		3.2525E-05	2.6235E-13	1.2061E+12	9.2041E+09
I-132		8.5048E-06	8.2394E-16	3.7590E+09	3.4068E+09
I-133		5.3127E-05	4.6898E-14	2.1235E+11	1.5784E+10
I-134		1.4246E-07	5.3401E-18	2.3999E+07	2.8437E+08
I-135		2.8328E-05	8.0663E-15	3.5982E+10	9.5202E+09
Xe-133		5.7349E-01	3.0638E-09	1.3873E+16	1.3569E+14
Xe-133m		1.6680E-02	3.7887E-11	1.7155E+14	3.9872E+12
Xe-135		1.6378E-01	6.4133E-11	2.8609E+14	4.2637E+13
Xe-135m		9.5153E-05	1.0453E-15	4.6627E+09	5.5403E+10
Cs-134		1.1326E-08	8.7536E-15	3.9340E+10	3.8041E+06
Cs-136		3.3962E-09	4.6339E-17	2.0519E+08	1.1452E+06
Cs-137		8.7953E-09	1.0112E-13	4.4448E+11	2.9540E+06
Ba-139		8.4959E-11	5.1941E-21	2.2503E+04	7.4792E+04
Ba-140		4.5362E-09	6.1963E-17	2.6653E+08	1.3811E+06
La-140		5.4740E-10	9.8485E-19	4.2363E+06	1.3067E+05
Ce-141		1.0854E-10	3.8094E-18	1.6270E+07	3.2965E+04
Ce-143		8.9902E-11	1.3538E-19	5.7011E+05	2.8236E+04
Ce-144		8.7338E-11	2.7383E-17	1.1452E+08	2.6496E+04
Pr-143		4.2421E-11	6.2997E-19	2.6530E+06	1.2813E+04
Nd-147		1.6626E-11	2.0552E-19	8.4195E+05	5.0649E+03
Np-239		1.1276E-09	4.8604E-18	1.2247E+07	3.4901E+05
Pu-238		2.7160E-13	1.5865E-17	4.0142E+07	8.2381E+01
Pu-239		2.7418E-14	4.4111E-16	1.1115E+09	8.3145E+00
Pu-240		4.8383E-14	2.1243E-17	5.3303E+07	1.4676E+01

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Pu-241	1.0749E-11	1.0869E-16	2.7160E+08	3.2604E+03
Am-241	6.0941E-15	1.7789E-18	4.4451E+06	1.8475E+00
Cm-242	1.6682E-12	5.0396E-19	1.2541E+06	5.0615E+02
Cm-244	1.1046E-13	1.3495E-18	3.3306E+06	3.3504E+01

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	1.0229E+17	0.0000E+00	
Elemental I (atoms)	5.7798E+11	0.0000E+00	
Organic I (atoms)	8.7790E+11	0.0000E+00	
Aerosols (kg)	4.0564E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.9151E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.5781E-15	
Total I (Ci)		1.2263E-04	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5285E+11
Organic I (atoms)	0.0000E+00	1.6912E+11
Aerosols (kg)	0.0000E+00	9.8249E-14

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	8.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 1.2379E+17
Organic I (atoms)	5.6557E+12 5.7128E+10
Aerosols (kg)	7.4651E+12 7.5406E+10
	1.0856E-12 1.0966E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway
Time (h) =	8.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 2.2924E+16
Organic I (atoms)	0.0000E+00 1.0579E+12
Aerosols (kg)	0.0000E+00 1.3964E+12
	0.0000E+00 2.0308E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway
Time (h) =	8.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	4.4226E+16 0.0000E+00
Organic I (atoms)	3.6597E+11 0.0000E+00
Aerosols (kg)	4.0492E+11 0.0000E+00
	2.3524E-13 0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1846E-02	1.7351E-01	3.7225E-02	
Accumulated dose (rem)	4.0273E-02	2.0134E-01	4.6520E-02	

LPZ Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9170E-03	8.1734E-03	3.1704E-03	
Accumulated dose (rem)	4.0641E-03	1.1962E-02	4.4357E-03	

CR Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8402E-03	5.0163E-02	8.7195E-03	
Accumulated dose (rem)	6.3385E-03	6.1433E-02	1.1338E-02	

CR Compartment Nuclide Inventory:

Time (h) =	16.0000	Ci	kg	Atoms	Decay
Kr-83m	3.0838E-04	1.5192E-14	1.1022E+11	1.8952E+12	
Kr-85m	2.2700E-02	2.7583E-12	1.9543E+13	3.4164E+13	
Kr-85	1.3642E-02	3.4803E-08	2.4657E+17	1.0078E+13	
Kr-87	8.8802E-05	3.1350E-15	2.1701E+10	2.2563E+12	

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Kr-88	1.4898E-02	1.1881E-12	8.1307E+12	3.7680E+13
Rb-86	1.0493E-10	1.2895E-18	9.0300E+06	1.4313E+05
Rb-88	4.2808E-02	3.5462E-13	2.4268E+12	2.8852E+13
Sr-89	3.3660E-09	1.1586E-16	7.8397E+08	4.1299E+06
Sr-90	3.6338E-10	2.6639E-15	1.7825E+10	4.4453E+05
Sr-91	1.3029E-09	3.5941E-19	2.3785E+06	2.3943E+06
Sr-92	7.2393E-11	5.7595E-21	3.7700E+04	4.7206E+05
Y-90	5.6831E-11	1.0446E-19	6.9895E+05	4.6858E+04
Y-91	4.9344E-11	2.0121E-18	1.3315E+07	5.8221E+04
Y-92	3.4547E-10	3.5903E-20	2.3501E+05	8.5244E+05
Y-93	1.5842E-11	4.7482E-21	3.0747E+04	2.8372E+04
Zr-95	4.9901E-11	2.3228E-18	1.4725E+07	6.1188E+04
Zr-97	2.5154E-11	1.3158E-20	8.1692E+04	3.8411E+04
Nb-95	4.9572E-11	1.2677E-18	8.0362E+06	6.0632E+04
Mo-99	5.3632E-10	1.1182E-18	6.8022E+06	6.9324E+05
Tc-99m	5.2065E-10	9.9016E-20	6.0231E+05	6.4081E+05
Ru-103	5.4287E-10	1.6821E-17	9.8345E+07	6.6663E+05
Ru-105	3.2189E-11	4.7886E-21	2.7464E+04	1.0084E+05
Ru-106	2.2807E-10	6.8171E-17	3.8729E+08	2.7911E+05
Rh-105	3.0260E-10	3.5850E-19	2.0561E+06	4.0215E+05
Sb-127	5.6051E-10	2.0989E-18	9.9526E+06	7.1311E+05
Sb-129	1.4987E-10	2.6652E-20	1.2442E+05	4.8373E+05
Te-127	6.0425E-10	2.2896E-19	1.0857E+06	7.3854E+05
Te-127m	1.0690E-10	1.1333E-17	5.3738E+07	1.3077E+05
Te-129	4.8895E-10	2.3348E-20	1.0899E+05	7.6592E+05
Te-129m	3.4787E-10	1.1548E-17	5.3908E+07	4.2709E+05
Te-131m	9.1771E-10	1.1509E-18	5.2906E+06	1.2692E+06
Te-132	8.2693E-09	2.7238E-17	1.2427E+08	1.0596E+07
I-131	5.7388E-05	4.6290E-13	2.1280E+12	5.2351E+10
I-132	5.8933E-06	5.7094E-16	2.6048E+09	9.9236E+09
I-133	7.3860E-05	6.5201E-14	2.9523E+11	7.7529E+10
I-134	4.6293E-10	1.7353E-20	7.7988E+04	3.0799E+08
I-135	2.2221E-05	6.3273E-15	2.8225E+10	3.3965E+10
Xe-133	1.5416E+00	8.2359E-09	3.7292E+16	1.1628E+15
Xe-133m	4.2210E-02	9.5877E-11	4.3412E+14	3.2808E+13
Xe-135	2.5173E-01	9.8573E-11	4.3972E+14	2.5548E+14
Xe-135m	2.5897E-05	2.8448E-16	1.2690E+09	1.1688E+11
Cs-134	1.0749E-08	8.3081E-15	3.7338E+10	1.4542E+07
Cs-136	3.1680E-09	4.3225E-17	1.9140E+08	4.3371E+06
Cs-137	8.3500E-09	9.5997E-14	4.2198E+11	1.1294E+07
Ba-140	4.8187E-09	6.5821E-17	2.8313E+08	5.9647E+06
La-140	1.1376E-09	2.0468E-18	8.8042E+06	9.4190E+05
Ce-141	1.1663E-10	4.0932E-18	1.7482E+07	1.4329E+05
Ce-143	8.2206E-11	1.2379E-19	5.2131E+05	1.1241E+05
Ce-144	9.4398E-11	2.9597E-17	1.2377E+08	1.1554E+05
Pr-143	4.6612E-11	6.9220E-19	2.9151E+06	5.6412E+04
Nd-147	1.7610E-11	2.1768E-19	8.9178E+05	2.1840E+04
Np-239	1.1057E-09	4.7663E-18	1.2010E+07	1.4427E+06
Pu-238	2.9380E-13	1.7162E-17	4.3424E+07	3.5940E+02
Pu-239	2.9689E-14	4.7765E-16	1.2035E+09	3.6293E+01
Pu-240	5.2337E-14	2.2979E-17	5.7659E+07	6.4024E+01
Pu-241	1.1627E-11	1.1757E-16	2.9378E+08	1.4223E+04
Am-241	6.6090E-15	1.9292E-18	4.8206E+06	8.0709E+00
Cm-242	1.8020E-12	5.4437E-19	1.3547E+06	2.2064E+03
Cm-244	1.1948E-13	1.4597E-18	3.6026E+06	1.4616E+02

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	2.8477E+17	0.0000E+00
Elemental I (atoms)	4.9333E+11	0.0000E+00
Organic I (atoms)	1.9587E+12	0.0000E+00
Aerosols (kg)	4.6309E-13	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.5216E-15
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.3403E-15
Total I (Ci)		1.5936E-04

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.6335E+11
Organic I (atoms)	0.0000E+00	1.2041E+12
Aerosols (kg)	0.0000E+00	3.9007E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6519E+17
Elemental I (atoms)	1.2488E+13	1.2614E+11
Organic I (atoms)	3.1261E+13	3.1576E+11
Aerosols (kg)	2.5223E-12	2.5478E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0466E+17
Elemental I (atoms)	0.0000E+00	2.3359E+12
Organic I (atoms)	0.0000E+00	5.8475E+12
Aerosols (kg)	0.0000E+00	4.7182E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	3.8359E+17	0.0000E+00
Elemental I (atoms)	1.3488E+12	0.0000E+00
Organic I (atoms)	2.8830E+12	0.0000E+00
Aerosols (kg)	9.3394E-13	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8974E-02	3.3735E-01	4.9388E-02
Accumulated dose (rem)	7.9246E-02	5.3869E-01	9.5907E-02

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5699E-03	1.5892E-02	4.0604E-03
Accumulated dose (rem)	7.6340E-03	2.7854E-02	8.4961E-03

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1136E-03	9.8662E-02	1.1037E-02
Accumulated dose (rem)	1.2452E-02	1.6009E-01	2.2375E-02

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	3.4443E-05	1.6968E-15	1.2311E+10	2.0422E+12
Kr-85m	1.4496E-02	1.7614E-12	1.2479E+13	5.5587E+13
Kr-85	3.0034E-02	7.6623E-08	5.4287E+17	3.4275E+13
Kr-87	2.4970E-06	8.8154E-17	6.1020E+08	2.2848E+12
Kr-88	4.6551E-03	3.7124E-13	2.5405E+12	4.8015E+13
Rb-86	1.1232E-10	1.3804E-18	9.6664E+06	2.6189E+05
Rb-88	1.3454E-02	1.1145E-13	7.6268E+11	3.6989E+13
Sr-89	3.9413E-09	1.3566E-16	9.1795E+08	8.1444E+06
Sr-90	4.2742E-10	3.1335E-15	2.0967E+10	8.7892E+05
Sr-91	8.5489E-10	2.3583E-19	1.5607E+06	3.5661E+06
Y-90	9.6646E-11	1.7764E-19	1.1886E+06	1.2813E+05
Y-91	5.9654E-11	2.4325E-18	1.6097E+07	1.1801E+05
Y-92	1.0855E-10	1.1282E-20	7.3847E+04	1.0777E+06
Y-93	1.0761E-11	3.2255E-21	2.0887E+04	4.2851E+04
Zr-95	5.8486E-11	2.7225E-18	1.7258E+07	1.2073E+05
Zr-97	2.1312E-11	1.1148E-20	6.9213E+04	6.3948E+04
Nb-95	5.8309E-11	1.4911E-18	9.4525E+06	1.1987E+05
Mo-99	5.8003E-10	1.2094E-18	7.3565E+06	1.3076E+06
Tc-99m	5.8099E-10	1.1049E-19	6.7212E+05	1.2163E+06
Ru-103	6.3481E-10	1.9670E-17	1.1500E+08	1.3136E+06
Ru-106	2.6810E-10	8.0137E-17	4.5528E+08	5.5167E+05
Rh-105	3.0739E-10	3.6419E-19	2.0888E+06	7.3813E+05
Sb-127	6.2091E-10	2.3251E-18	1.1025E+07	1.3630E+06
Sb-129	4.8839E-11	8.6850E-21	4.0544E+04	5.8313E+05
Te-127	6.9283E-10	2.6252E-19	1.2448E+06	1.4276E+06
Te-127m	1.2572E-10	1.3328E-17	6.3199E+07	2.5853E+05
Te-129	4.2013E-10	2.0061E-20	9.3652E+04	1.1445E+06

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Te-129m	4.0654E-10	1.3495E-17	6.2999E+07	8.4158E+05
Te-131m	8.9730E-10	1.1253E-18	5.1730E+06	2.2687E+06
Te-132	9.0611E-09	2.9846E-17	1.3616E+08	2.0132E+07
I-131	1.0431E-04	8.4135E-13	3.8677E+12	1.4219E+11
I-132	9.0954E-06	8.8116E-16	4.0200E+09	1.9540E+10
I-133	1.0578E-04	9.3380E-14	4.2282E+11	1.7929E+11
I-135	1.7956E-05	5.1129E-15	2.2808E+10	5.6924E+10
Xe-133	3.2521E+00	1.7374E-08	7.8667E+16	3.8326E+15
Xe-133m	8.3807E-02	1.9036E-10	8.6193E+14	1.0350E+14
Xe-135	3.0184E-01	1.1819E-10	5.2725E+14	5.7807E+14
Xe-135m	1.5746E-05	1.7297E-16	7.7160E+08	1.8035E+11
Cs-134	1.1647E-08	9.0016E-15	4.0454E+10	2.6783E+07
Cs-136	3.3735E-09	4.6028E-17	2.0382E+08	7.9134E+06
Cs-137	9.0496E-09	1.0404E-13	4.5733E+11	2.0804E+07
Ba-140	5.5662E-09	7.6032E-17	3.2706E+08	1.1672E+07
La-140	1.8886E-09	3.3978E-18	1.4616E+07	2.5459E+06
Ce-141	1.3623E-10	4.7812E-18	2.0421E+07	2.8222E+05
Ce-143	8.1740E-11	1.2309E-19	5.1836E+05	2.0269E+05
Ce-144	1.1095E-10	3.4786E-17	1.4547E+08	2.2834E+05
Pr-143	5.5393E-11	8.2260E-19	3.4642E+06	1.1235E+05
Nd-147	2.0283E-11	2.5072E-19	1.0271E+06	4.2667E+04
Np-239	1.1791E-09	5.0825E-18	1.2807E+07	2.7003E+06
Pu-238	3.4561E-13	2.0188E-17	5.1081E+07	7.1063E+02
Pu-239	3.4955E-14	5.6237E-16	1.4170E+09	7.1800E+01
Pu-240	6.1563E-14	2.7029E-17	6.7823E+07	1.2659E+02
Pu-241	1.3676E-11	1.3829E-16	3.4556E+08	2.8122E+04
Am-241	7.7938E-15	2.2750E-18	5.6848E+06	1.5981E+01
Cm-242	2.1166E-12	6.3942E-19	1.5912E+06	4.3590E+03
Cm-244	1.4053E-13	1.7169E-18	4.2375E+06	2.8899E+02

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	6.2294E+17	0.0000E+00
Elemental I (atoms)	4.7058E+11	0.0000E+00
Organic I (atoms)	3.8447E+12	0.0000E+00
Aerosols (kg)	2.2932E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1353E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2458E-14
Total I (Ci)		2.3714E-04

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	9.8014E+11
Organic I (atoms)	0.0000E+00	3.6673E+12
Aerosols (kg)	0.0000E+00	6.5350E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6203E+18
Elemental I (atoms)	1.9708E+13	1.9907E+11
Organic I (atoms)	8.4210E+13	8.5061E+11
Aerosols (kg)	4.2453E-12	4.2881E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0005E+17
Elemental I (atoms)	0.0000E+00	3.6864E+12
Organic I (atoms)	0.0000E+00	1.5752E+13
Aerosols (kg)	0.0000E+00	7.9410E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.2929E+18	0.0000E+00
Elemental I (atoms)	2.3468E+12	0.0000E+00
Organic I (atoms)	8.7806E+12	0.0000E+00
Aerosols (kg)	1.5647E-12	0.0000E+00

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EAB Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4380E-01	2.1677E+00	2.1015E-01
Accumulated dose (rem)		2.2305E-01	2.7064E+00	3.0606E-01

LPZ Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.5467E-03	5.4945E-02	7.2285E-03
Accumulated dose (rem)		1.3181E-02	8.2799E-02	1.5725E-02

CR Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2157E-02	3.2013E-01	2.2195E-02
Accumulated dose (rem)		2.4609E-02	4.8023E-01	4.4569E-02

CR Compartment Nuclide Inventory:

Time (h) =	96.0000	Ci	kg	Atoms	Decay
Kr-85m		1.7480E-07	2.1240E-17	1.5048E+08	6.3880E+13
Kr-85		2.4927E-02	6.3593E-08	4.5055E+17	2.3606E+14
Kr-88		9.0253E-11	7.1976E-21	4.9256E+04	4.9795E+13
Rb-86		1.8089E-11	2.2231E-19	1.5567E+06	5.4051E+05
Rb-88		2.6249E-10	2.1744E-21	1.4880E+04	3.8713E+13
Sr-89		9.4693E-10	3.2594E-17	2.2055E+08	1.9896E+07
Sr-90		1.0699E-10	7.8434E-16	5.2482E+09	2.1765E+06
Y-90		6.9192E-11	1.2718E-19	8.5097E+05	6.8874E+05
Y-91		1.4919E-11	6.0834E-19	4.0258E+06	3.0117E+05
Zr-95		1.4174E-11	6.5979E-19	4.1825E+06	2.9578E+05
Nb-95		1.4579E-11	3.7284E-19	2.3634E+06	2.9675E+05
Mo-99		6.8173E-11	1.4214E-19	8.6464E+05	2.6002E+06
Tc-99m		6.9893E-11	1.3292E-20	8.0856E+04	2.4673E+06
Ru-103		1.5074E-10	4.6705E-18	2.7307E+07	3.1967E+06
Ru-106		6.6744E-11	1.9950E-17	1.1334E+08	1.3636E+06
Rh-105		1.8859E-11	2.2344E-20	1.2815E+05	1.2847E+06
Sb-127		9.0579E-11	3.3918E-19	1.6083E+06	2.8670E+06
Te-127		1.1757E-10	4.4550E-20	2.1125E+05	3.1612E+06
Te-127m		3.1288E-11	3.3170E-18	1.5729E+07	6.3939E+05
Te-129		8.2741E-11	3.9509E-21	1.8444E+04	1.9504E+06
Te-129m		9.5687E-11	3.1763E-18	1.4828E+07	2.0429E+06
Te-131m		4.2563E-11	5.3377E-20	2.4537E+05	3.7363E+06
Te-132		1.1983E-09	3.9472E-18	1.8008E+07	4.1254E+07
I-131		5.5556E-05	4.4812E-13	2.0600E+12	6.6430E+11
I-132		2.8461E-06	2.7573E-16	1.2579E+09	5.8177E+10
I-133		6.6126E-06	5.8374E-15	2.6431E+10	3.9627E+11
I-135		6.5042E-09	1.8521E-18	8.2618E+06	6.9717E+10
Xe-133		1.8311E+00	9.7825E-09	4.4294E+16	2.1726E+16
Xe-133m		2.7395E-02	6.2225E-11	2.8175E+14	4.5942E+14
Xe-135		1.0358E-03	4.0561E-13	1.8094E+12	9.1456E+14
Xe-135m		4.0205E-09	4.4166E-20	1.9702E+05	1.9803E+11
Cs-134		2.0910E-09	1.6161E-15	7.2630E+09	5.6979E+07
Cs-136		5.1819E-10	7.0703E-18	3.1307E+07	1.6124E+07
Cs-137		1.6289E-09	1.8727E-14	8.2319E+10	4.4292E+07
Ba-140		1.1837E-09	1.6169E-17	6.9550E+07	2.7414E+07
La-140		1.0413E-09	1.8734E-18	8.0584E+06	1.2093E+07
Ce-141		3.1999E-11	1.1230E-18	4.7965E+06	6.8442E+05
Ce-143		4.5103E-12	6.7918E-21	2.8602E+04	3.4285E+05
Ce-144		2.7574E-11	8.6454E-18	3.6155E+07	5.6410E+05
Pr-143		1.3357E-11	1.9836E-19	8.3534E+05	2.7983E+05
Nd-147		4.2020E-12	5.1941E-20	2.1279E+05	9.9394E+04
Np-239		1.2208E-10	5.2622E-19	1.3259E+06	5.2070E+06
Pu-238		8.6554E-14	5.0558E-18	1.2793E+07	1.7601E+03
Pu-239		8.7976E-15	1.4154E-16	3.5664E+08	1.7821E+02
Pu-240		1.5413E-14	6.7671E-18	1.6980E+07	3.1350E+02
Pu-241		3.4225E-12	3.4608E-17	8.6480E+07	6.9636E+04
Am-241		1.9961E-15	5.8266E-19	1.4560E+06	3.9880E+01
Cm-242		5.2320E-13	1.5806E-19	3.9332E+05	1.0749E+04
Cm-244		3.5173E-14	4.2971E-19	1.0606E+06	7.1560E+02

CR Transport Group Inventory:

Time (h) =	96.0000	Atmosphere	Sump
Noble gases (atoms)		4.9513E+17	0.0000E+00

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Elemental I (atoms)	3.0256E+10	0.0000E+00
Organic I (atoms)	2.0572E+12	0.0000E+00
Aerosols (kg)	2.1484E-14	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.2530E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.3228E-15
Total I (Ci)		6.5021E-05

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.6689E+12
Organic I (atoms)	0.0000E+00	1.9091E+13
Aerosols (kg)	0.0000E+00	9.3654E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	8.0590E+18
Elemental I (atoms)	2.9518E+13	2.9816E+11
Organic I (atoms)	3.4451E+14	3.4799E+12
Aerosols (kg)	8.0237E-12	8.1048E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	1.4924E+18
Elemental I (atoms)	0.0000E+00	5.5214E+12
Organic I (atoms)	0.0000E+00	6.4443E+13
Aerosols (kg)	0.0000E+00	1.5009E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	9.0332E+18	0.0000E+00
Elemental I (atoms)	3.9959E+12	0.0000E+00
Organic I (atoms)	4.5709E+13	0.0000E+00
Aerosols (kg)	2.2424E-12	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 720.0000			
Delta dose (rem)	3.1698E-01	7.3529E+00	5.4101E-01
Accumulated dose (rem)	5.4003E-01	1.0059E+01	8.4707E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 720.0000			
Delta dose (rem)	3.5427E-03	5.4004E-02	5.1881E-03
Accumulated dose (rem)	1.6723E-02	1.3680E-01	2.0913E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 720.0000			
Delta dose (rem)	1.3295E-02	5.4731E-01	2.9968E-02
Accumulated dose (rem)	3.7905E-02	1.0275E+00	7.4538E-02

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 720.0000				
Kr-85	1.7066E-02	4.3539E-08	3.0847E+17	1.8190E+15
Rb-86	3.2980E-12	4.0532E-20	2.8382E+05	1.0817E+06
Sr-89	3.6591E-10	1.2595E-17	8.5223E+07	6.1485E+07
Sr-90	5.8972E-11	4.3232E-16	2.8928E+09	7.7146E+06
Y-90	5.9282E-11	1.0896E-19	7.2909E+05	5.8994E+06
Y-91	6.0431E-12	2.4642E-19	1.6307E+06	9.6992E+05
Zr-95	5.9049E-12	2.7486E-19	1.7424E+06	9.3978E+05
Nb-95	7.4979E-12	1.9175E-19	1.2155E+06	1.0324E+06
Ru-103	5.2602E-11	1.6299E-18	9.5294E+06	9.5244E+06
Ru-106	3.5091E-11	1.0489E-17	5.9590E+07	4.7418E+06
Te-127	1.5662E-11	5.9346E-21	2.8141E+04	5.6499E+06
Te-127m	1.4919E-11	1.5816E-18	7.4998E+06	2.1603E+06

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Te-129m	3.0900E-11	1.0257E-18	4.7883E+06	5.9261E+06
Te-132	2.6214E-12	8.6347E-21	3.9394E+04	5.3591E+07
I-131	4.0044E-06	3.2300E-14	1.4849E+11	2.1014E+12
I-132	7.4004E-09	7.1695E-19	3.2709E+06	9.6750E+10
Xe-133	4.0991E-02	2.1899E-10	9.9156E+14	5.6280E+16
Xe-133m	5.8260E-06	1.3233E-14	5.9920E+10	6.8988E+14
Cs-134	9.7775E-10	7.5570E-16	3.3962E+09	1.5092E+08
Cs-136	6.2704E-11	8.5555E-19	3.7884E+06	2.9408E+07
Cs-137	7.7886E-10	8.9542E-15	3.9360E+10	1.1824E+08
Ba-140	1.5883E-10	2.1696E-18	9.3324E+06	6.1279E+07
La-140	1.8450E-10	3.3193E-19	1.4278E+06	4.9288E+07
Ce-141	1.0148E-11	3.5616E-19	1.5212E+06	1.9729E+06
Ce-144	1.4290E-11	4.4802E-18	1.8736E+07	1.9502E+06
Pr-143	2.0262E-12	3.0089E-20	1.2671E+05	6.8673E+05
Nd-147	4.4944E-13	5.5556E-21	2.2760E+04	2.1028E+05
Pu-238	4.7916E-14	2.7989E-18	7.0821E+06	6.2498E+03
Pu-239	4.8755E-15	7.8439E-17	1.9764E+08	6.3541E+02
Pu-240	8.5108E-15	3.7367E-18	9.3762E+06	1.1120E+03
Pu-241	1.8835E-12	1.9046E-17	4.7591E+07	2.4666E+05
Am-241	1.3169E-15	3.8441E-19	9.6056E+05	1.5290E+02
Cm-242	2.5864E-13	7.8133E-20	1.9443E+05	3.6473E+04
Cm-244	1.9366E-14	2.3660E-19	5.8396E+05	2.5353E+03

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	3.0946E+17	0.0000E+00
Elemental I (atoms)	6.9042E+08	0.0000E+00
Organic I (atoms)	1.4778E+11	0.0000E+00
Aerosols (kg)	1.0287E-14	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.7117E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.7119E-16
Total I (Ci)		4.0118E-06

Time (h) = 720.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.9205E+12
Organic I (atoms)	0.0000E+00	6.1118E+13
Aerosols (kg)	0.0000E+00	1.7103E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Time (h) = 720.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4956E+19
Elemental I (atoms)	3.3744E+13	3.4085E+11
Organic I (atoms)	1.0659E+15	1.0767E+13
Aerosols (kg)	2.1289E-11	2.1504E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Time (h) = 720.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0177E+19
Elemental I (atoms)	0.0000E+00	6.3121E+12
Organic I (atoms)	0.0000E+00	1.9939E+14
Aerosols (kg)	0.0000E+00	3.9823E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

Time (h) = 720.0000	Pathway Filtered	Transported
Noble gases (atoms)	6.4765E+19	0.0000E+00
Elemental I (atoms)	4.5982E+12	0.0000E+00
Organic I (atoms)	1.4633E+14	0.0000E+00
Aerosols (kg)	4.0951E-12	0.0000E+00

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I-131 Summary
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DW

WW

Dummy

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Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4751E-02
0.017	1.8470E+05	0.0000E+00	3.1395E+01
0.083	9.2044E+05	0.0000E+00	7.8060E+02
0.333	3.6817E+06	0.0000E+00	1.2120E+03
0.500	6.8012E+05	0.0000E+00	1.3959E+03
0.750	9.4093E+05	0.0000E+00	1.5615E+03
1.000	9.4889E+05	0.0000E+00	1.7377E+03
1.400	9.5870E+05	0.0000E+00	2.0221E+03
1.700	9.6603E+05	0.0000E+00	2.2371E+03
2.000	9.7334E+05	0.0000E+00	2.4536E+03
2.250	5.9162E+04	4.0983E+04	2.5052E+03
2.400	6.0403E+04	3.7668E+04	2.5135E+03
2.700	6.0349E+04	3.7597E+04	2.5299E+03
3.000	6.0272E+04	3.7549E+04	2.5463E+03
3.300	6.0196E+04	3.7501E+04	2.5627E+03
3.600	6.0119E+04	3.7454E+04	2.5790E+03
3.900	6.0043E+04	3.7406E+04	2.5953E+03
4.000	6.0017E+04	3.7390E+04	2.6007E+03
4.300	5.9941E+04	3.7343E+04	2.6169E+03
4.600	5.9865E+04	3.7295E+04	2.6331E+03
4.900	5.9789E+04	3.7248E+04	2.6493E+03
5.200	5.9713E+04	3.7200E+04	2.6654E+03
5.500	5.9637E+04	3.7153E+04	2.6814E+03
5.800	5.9561E+04	3.7106E+04	2.6974E+03
6.100	5.9485E+04	3.7058E+04	2.7134E+03
6.400	5.9409E+04	3.7011E+04	2.7293E+03
6.700	5.9334E+04	3.6964E+04	2.7452E+03
7.000	5.9258E+04	3.6917E+04	2.7611E+03
7.300	5.9183E+04	3.6870E+04	2.7769E+03
7.600	5.9107E+04	3.6823E+04	2.7927E+03
7.900	5.9032E+04	3.6776E+04	2.8084E+03
8.000	5.9007E+04	3.6761E+04	2.8136E+03
8.300	5.8932E+04	3.6714E+04	2.8293E+03
8.600	5.8857E+04	3.6667E+04	2.8449E+03
8.900	5.8782E+04	3.6621E+04	2.8605E+03
9.200	5.8707E+04	3.6574E+04	2.8761E+03
9.500	5.8632E+04	3.6527E+04	2.8916E+03
9.800	5.8558E+04	3.6481E+04	2.9071E+03
10.100	5.8483E+04	3.6434E+04	2.9225E+03
10.400	5.8409E+04	3.6388E+04	2.9379E+03
16.000	5.7035E+04	3.5532E+04	3.2179E+03
24.000	5.5126E+04	3.4343E+04	3.5946E+03
96.000	4.1555E+04	2.5888E+04	4.3816E+03
720.000	3.5475E+03	2.2101E+03	1.7755E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSL Volume 1 I-131 (Curies)
0.000	1.7036E-20	1.1819E-23	1.1306E-04
0.017	4.1754E-13	2.8954E-16	1.0212E-01
0.083	1.2818E-09	2.3337E-13	2.5358E+00
0.333	1.2872E-06	2.3066E-10	4.0378E+01
0.500	9.4719E-06	1.6799E-09	5.6145E+01
0.750	6.0078E-05	1.0465E-08	6.9911E+01
1.000	2.0094E-04	3.4342E-08	8.4409E+01
1.400	7.7279E-04	1.2819E-07	1.0738E+02
1.700	1.6549E-03	2.6867E-07	1.2441E+02
2.000	3.1215E-03	4.9633E-07	1.4129E+02
2.250	4.9445E-03	6.6524E-07	1.4259E+02
2.400	6.3611E-03	7.9738E-07	1.4192E+02
2.700	1.0056E-02	1.1411E-06	1.4058E+02
3.000	1.5088E-02	1.6033E-06	1.3926E+02
3.300	2.1676E-02	2.1970E-06	1.3796E+02
3.600	3.0033E-02	2.9331E-06	1.3669E+02
3.900	4.0362E-02	3.8203E-06	1.3544E+02
4.000	4.4277E-02	4.1508E-06	1.3502E+02
4.300	5.7537E-02	5.2500E-06	1.3380E+02
4.600	7.3212E-02	6.5138E-06	1.3259E+02
4.900	9.1477E-02	7.9456E-06	1.3141E+02
5.200	1.1250E-01	9.5474E-06	1.3024E+02
5.500	1.3644E-01	1.1320E-05	1.2910E+02
5.800	1.6345E-01	1.3264E-05	1.2797E+02
6.100	1.9368E-01	1.5377E-05	1.2686E+02
6.400	2.2725E-01	1.7658E-05	1.2577E+02

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6.700	2.6430E-01	2.0104E-05	1.2470E+02
7.000	3.0494E-01	2.2712E-05	1.2365E+02
7.300	3.4930E-01	2.5478E-05	1.2261E+02
7.600	3.9746E-01	2.8399E-05	1.2159E+02
7.900	4.4954E-01	3.1469E-05	1.2059E+02
8.000	4.6779E-01	3.2525E-05	1.2025E+02
8.300	5.2522E-01	3.1648E-05	1.1927E+02
8.600	5.8677E-01	3.1037E-05	1.1831E+02
8.900	6.5251E-01	3.0668E-05	1.1736E+02
9.200	7.2251E-01	3.0519E-05	1.1642E+02
9.500	7.9684E-01	3.0570E-05	1.1550E+02
9.800	8.7554E-01	3.0804E-05	1.1460E+02
10.100	9.5868E-01	3.1203E-05	1.1371E+02
10.400	1.0463E+00	3.1754E-05	1.1283E+02
16.000	3.5303E+00	5.7388E-05	9.8831E+01
24.000	9.7524E+00	1.0431E-04	8.4747E+01
96.000	5.4671E+01	5.5556E-05	5.1363E+01
720.000	2.1703E+02	4.0044E-06	4.2184E+00

Time (hr)	MSL Volume 2 I-131 (Curies)	MSL Volume 3 I-131 (Curies)
0.000	1.1809E-09	5.0820E-14
0.017	3.2024E-05	4.1425E-08
0.083	3.9479E-03	2.5466E-05
0.333	2.4698E-01	6.3654E-03
0.500	6.9884E-01	2.9990E-02
0.750	1.4988E+00	1.1225E-01
1.000	2.4337E+00	2.5831E-01
1.400	4.1858E+00	6.4452E-01
1.700	5.6843E+00	1.0715E+00
2.000	7.3220E+00	1.6267E+00
2.250	8.7047E+00	2.1909E+00
2.400	9.4806E+00	2.5708E+00
2.700	1.0911E+01	3.4121E+00
3.000	1.2191E+01	4.3472E+00
3.300	1.3335E+01	5.3597E+00
3.600	1.4356E+01	6.4351E+00
3.900	1.5265E+01	7.5603E+00
4.000	1.5545E+01	7.9444E+00
4.300	1.6321E+01	9.1185E+00
4.600	1.7007E+01	1.0318E+01
4.900	1.7613E+01	1.1533E+01
5.200	1.8145E+01	1.2757E+01
5.500	1.8611E+01	1.3984E+01
5.800	1.9016E+01	1.5206E+01
6.100	1.9368E+01	1.6420E+01
6.400	1.9669E+01	1.7621E+01
6.700	1.9927E+01	1.8804E+01
7.000	2.0144E+01	1.9967E+01
7.300	2.0325E+01	2.1108E+01
7.600	2.0473E+01	2.2222E+01
7.900	2.0591E+01	2.3310E+01
8.000	2.0624E+01	2.3666E+01
8.300	2.0708E+01	2.4714E+01
8.600	2.0768E+01	2.5732E+01
8.900	2.0807E+01	2.6718E+01
9.200	2.0827E+01	2.7672E+01
9.500	2.0831E+01	2.8593E+01
9.800	2.0820E+01	2.9481E+01
10.100	2.0795E+01	3.0336E+01
10.400	2.0758E+01	3.1158E+01
16.000	1.9003E+01	4.0991E+01
24.000	1.6209E+01	4.3243E+01
96.000	9.4489E+00	2.6147E+01
720.000	7.6962E-01	2.0528E+00

#####

Cumulative Dose Summary

#####

Time	EAB		LPZ		CR	
(hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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```

0.017 2.6545E-14 2.7545E-15 3.6137E-15 3.7498E-16 2.0391E-16 7.4247E-18
0.083 8.1428E-11 8.0528E-12 1.1085E-11 1.0963E-12 5.9813E-13 3.4139E-14
0.333 8.1535E-08 6.9854E-09 1.1100E-08 9.5096E-10 2.2961E-09 1.2168E-10
0.500 5.9886E-07 4.8339E-08 8.1526E-08 6.5806E-09 2.5400E-08 1.3064E-09
0.750 3.7884E-06 3.1149E-07 5.1573E-07 4.2405E-08 2.5374E-07 1.3135E-08
1.000 1.2639E-05 1.1881E-06 1.7206E-06 1.6175E-07 1.1690E-06 6.4920E-08
1.400 4.8447E-05 6.3177E-06 6.5953E-06 8.6006E-07 6.4096E-06 4.4291E-07
1.700 1.0346E-04 1.6966E-05 1.4085E-05 2.3096E-06 1.6537E-05 1.3928E-06
2.000 1.9461E-04 3.8722E-05 2.6493E-05 5.2714E-06 3.6162E-05 3.6754E-06
2.250 3.0753E-04 6.9882E-05 4.1866E-05 9.5134E-06 6.1232E-05 7.1300E-06
2.400 3.9508E-04 9.6073E-05 5.3785E-05 1.3079E-05 8.0242E-05 1.0009E-05
2.700 6.2288E-04 1.6938E-04 8.4795E-05 2.3058E-05 1.3019E-04 1.8307E-05
3.000 9.3210E-04 2.7551E-04 1.2689E-04 3.7506E-05 2.0082E-04 3.1425E-05
3.300 1.3357E-03 4.1986E-04 1.8183E-04 5.7158E-05 2.9848E-04 5.1191E-05
3.600 1.8459E-03 6.0701E-04 2.5129E-04 8.2635E-05 4.3009E-04 7.9620E-05
3.900 2.4746E-03 8.4071E-04 3.3688E-04 1.1445E-04 6.0301E-04 1.1882E-04
4.000 2.7124E-03 9.2949E-04 3.6925E-04 1.2654E-04 6.7114E-04 1.3464E-04
4.300 3.5162E-03 1.2297E-03 4.7867E-04 1.6741E-04 9.1112E-04 1.9149E-04
4.600 4.4635E-03 1.5824E-03 6.0763E-04 2.1541E-04 1.2107E-03 2.6395E-04
4.900 5.5640E-03 1.9887E-03 7.5746E-04 2.7072E-04 1.5780E-03 3.5393E-04
5.200 6.8271E-03 2.4494E-03 9.2941E-04 3.3345E-04 2.0212E-03 4.6318E-04
5.500 8.2614E-03 2.9649E-03 1.1247E-03 4.0363E-04 2.5485E-03 5.9327E-04
5.800 9.8749E-03 3.5350E-03 1.3443E-03 4.8124E-04 3.1681E-03 7.4555E-04
6.100 1.1675E-02 4.1592E-03 1.5894E-03 5.6621E-04 3.8880E-03 9.2117E-04
6.400 1.3670E-02 4.8366E-03 1.8609E-03 6.5842E-04 4.7161E-03 1.1211E-03
6.700 1.5864E-02 5.5660E-03 2.1597E-03 7.5773E-04 5.6601E-03 1.3460E-03
7.000 1.8266E-02 6.3463E-03 2.4866E-03 8.6395E-04 6.7277E-03 1.5964E-03
7.300 2.0879E-02 7.1760E-03 2.8424E-03 9.7690E-04 7.9260E-03 1.8726E-03
7.600 2.3710E-02 8.0534E-03 3.2278E-03 1.0963E-03 9.2622E-03 2.1749E-03
7.900 2.6763E-02 8.9769E-03 3.6434E-03 1.2221E-03 1.0743E-02 2.5031E-03
8.000 2.7831E-02 9.2947E-03 3.7887E-03 1.2653E-03 1.1270E-02 2.6183E-03
8.300 3.1186E-02 1.0277E-02 3.9468E-03 1.3507E-03 1.2851E-02 2.9654E-03
8.600 3.4773E-02 1.1302E-02 4.1158E-03 1.4395E-03 1.4393E-02 3.3031E-03
8.900 3.8595E-02 1.2366E-02 4.2958E-03 1.5318E-03 1.5906E-02 3.6294E-03
9.200 4.2655E-02 1.3470E-02 4.4870E-03 1.6273E-03 1.7403E-02 3.9450E-03
9.500 4.6955E-02 1.4610E-02 4.6896E-03 1.7258E-03 1.8893E-02 4.2514E-03
9.800 5.1498E-02 1.5786E-02 4.9036E-03 1.8272E-03 2.0387E-02 4.5503E-03
10.100 5.6285E-02 1.6996E-02 5.1291E-03 1.9314E-03 2.1892E-02 4.8433E-03
10.400 6.1319E-02 1.8237E-02 5.3663E-03 2.0381E-03 2.3417E-02 5.1319E-03
16.000 2.0134E-01 4.6520E-02 1.1962E-02 4.4357E-03 6.1433E-02 1.1338E-02
24.000 5.3869E-01 9.5907E-02 2.7854E-02 8.4961E-03 1.6009E-01 2.2375E-02
96.000 2.7064E+00 3.0606E-01 8.2799E-02 1.5725E-02 4.8023E-01 4.4569E-02
720.000 1.0059E+01 8.4707E-01 1.3680E-01 2.0913E-02 1.0275E+00 7.4538E-02

```

```

#####
Worst Two-Hour Doses
#####

```

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
16.0	9.7434E-03	8.4339E-02	1.2347E-02

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NMP2 MSL C.out

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:24:31
#####
```

```
#####
File information
#####
```

```
Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2 MSL C.psf
Inventory file   = c:\radtrad3.03\nmp2\nmp2.nif
Release file     = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
```

Radtrad 3.03 4/15/2001
 NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
 Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory

Nuclide Inventory File:
 c:\radtrad3.03\nmp2\nmp2.nif

Plant Power Level:
 4.0670E+03

Compartments:

8

Compartment 1:

DW

3

3.0620E+05

1

0

0

0

0

Compartment 2:

WW

3

1.9080E+05

0

0

0

0

0

Compartment 3:

Dummy

3

1.0000E+02

0

0

0

0

0

Compartment 4:

Environment

2

0.0000E+00

0

0

0

0

0

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Compartment 5:

CR

1

3.8100E+05

0

0

1

0

0

Compartment 6:

MSL Volume 1

3

3.5995E+02

0

0

0

0

0

Compartment 7:

MSL Volume 2

3

6.5690E+01

0

0

0

0

0

Compartment 8:

MSL Volume 3

3

4.2805E+02

0

0

0

0

0

Pathways:

14

Pathway 1:

DW to WW

1

2

4

Pathway 2:

WW to DW

2

1

4

Pathway 3:

DW Leakage to RB (Released to Dummy)

1

3

2

Pathway 4:

WW Leakage to RB (Released to Dummy)

2

3

2

Pathway 5:

DW Bypass Pathway 5 to Environment (Released to Dummy)

1

3

2

Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2

3

2

Pathway 7:

DW to MSL Volume 1

1

6

2

Pathway 8:

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MSL Volume 1 to MSL Volume 2

6
7
2

Pathway 9:

MSL Volume 2 to MSL Volume 3

7
8
2

Pathway 10:

MSL Volume 3 to Environment

8
4
2

Pathway 11:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 12:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 13:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 14:

DW to Dummy MSL flows all other steam lines

1
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

8

Compartment 1:

0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00

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7.2000E+02 0.0000E+00

1

0.0000E+00

0

0

0

0

0

Compartment 2:

0

1

0

0

0

0

0

0

0

Compartment 3:

0

1

0

0

0

0

0

0

0

Compartment 4:

0

1

0

0

0

0

0

0

0

Compartment 5:

1

1

0

0

0

0

1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0

0

Compartment 6:

0

1

0

0

0

0

0

0

0

Compartment 7:

0

1

0

0

0

0

0

0

0

Compartment 8:

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```

0
1
0
0
0
0
0
0
0
0
Pathways:
14
Pathway 1:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  8.9710E+04
7.2000E+02  0.0000E+00
0
Pathway 2:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  1.4400E+05
7.2000E+02  0.0000E+00
0
Pathway 3:
0
0
0
0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00

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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5

0.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5

0.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 7:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 8:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0

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```

0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.6900E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00  8.3300E-01  9.9990E+01  5.0000E+01  0.0000E+00
2.4000E+01  4.1700E-01  9.9990E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0

```

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```

0
0
0
Pathway 13:
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
1
3
0.0000E+00  1.0140E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  5.0700E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4
1
5
0.0000E+00  1.6200E-05
8.0000E+00  1.0900E-05
2.4000E+01  4.5900E-06
9.6000E+01  1.3300E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1
2

```

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```
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o671
1
1
1
0
0
End of Scenario File
```

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REV. No. 4

PAGE NO. 749

 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:24:31
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 8

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSL Volume 1

Exit Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Inlet Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 10: MSL Volume 3 to Environment

Inlet Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Exit Pathway Number 11: CR Filtered Intake (Pathway 9)

Exit Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 11: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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Name: MSL Volume 1
Compartment volume = 3.5995E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSL Volume 1
Exit Pathway Number 8: MSL Volume 1 to MSL Volume 2

Compartment number 7
Name: MSL Volume 2
Compartment volume = 6.5690E+01 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSL Volume 1 to MSL Volume 2
Exit Pathway Number 9: MSL Volume 2 to MSL Volume 3

Compartment number 8
Name: MSL Volume 3
Compartment volume = 4.2805E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 9: MSL Volume 2 to MSL Volume 3
Exit Pathway Number 10: MSL Volume 3 to Environment

Total number of pathways = 14

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 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:24:31
 #####
 #####
 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSL Volume 1

Compartment number 7: MSL Volume 2

Compartment number 8: MSL Volume 3

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSL Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSL Volume 1 to MSL Volume 2

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSL Volume 2 to MSL Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: MSL Volume 3 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.3300E-01	9.9990E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9990E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 12: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: DW to Dummy MSL flows all other steam lines

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0140E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.0700E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:24:31
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#####
Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9051E-15	2.6426E-14	2.7422E-15	
Accumulated dose (rem)	1.9051E-15	2.6426E-14	2.7422E-15	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5936E-16	3.5975E-15	3.7330E-16	
Accumulated dose (rem)	2.5936E-16	3.5975E-15	3.7330E-16	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6067E-19	2.0300E-16	7.3915E-18	
Accumulated dose (rem)	9.6067E-19	2.0300E-16	7.3915E-18	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump	
Noble gases (atoms)	4.0129E+03	0.0000E+00		
Elemental I (atoms)	1.3222E+01	0.0000E+00		
Organic I (atoms)	8.1783E-01	0.0000E+00		
Aerosols (kg)	2.5035E-24	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.7741E-26	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.8333E-26	
Total I (Ci)			2.5439E-15	

		Deposition	Recirculating
Time (h) =	0.0167	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	0.0000E+00	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway	
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0111E+03	
Elemental I (atoms)	0.0000E+00	9.9222E+00	
Organic I (atoms)	0.0000E+00	6.1375E-01	
Aerosols (kg)	0.0000E+00	1.8773E-24	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway	
Time (h) =	0.0167	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0037E+03	

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Elemental I (atoms)	0.0000E+00	3.3074E+00
Organic I (atoms)	0.0000E+00	2.0458E-01
Aerosols (kg)	0.0000E+00	6.2577E-25

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	1.9553E+00	0.0000E+00
Elemental I (atoms)	6.4432E-03	0.0000E+00
Organic I (atoms)	3.9855E-04	0.0000E+00
Aerosols (kg)	1.2192E-27	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4482E-12	8.1038E-11	8.0142E-12	
Accumulated dose (rem)	5.4501E-12	8.1065E-11	8.0169E-12	

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4169E-13	1.1032E-11	1.0910E-12	
Accumulated dose (rem)	7.4195E-13	1.1036E-11	1.0914E-12	

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4944E-14	5.9525E-13	3.3979E-14	
Accumulated dose (rem)	1.4945E-14	5.9546E-13	3.3986E-14	

CR Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-85m	1.8080E-11	2.1970E-21	1.5566E+04	4.5163E+01	
Kr-85	9.2579E-13	2.3619E-18	1.6734E+07	2.3077E+00	
Kr-88	4.9195E-11	3.9233E-21	2.6848E+04	1.2303E+02	
Xe-133	1.1325E-10	6.0504E-19	2.7396E+06	2.8231E+02	
Xe-133m	3.4732E-12	7.8891E-21	3.5721E+04	8.6583E+00	
Xe-135	4.7881E-11	1.8749E-20	8.3638E+04	1.1926E+02	

CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)	1.9651E+07	0.0000E+00	
Elemental I (atoms)	1.0642E+04	0.0000E+00	
Organic I (atoms)	6.5829E+02	0.0000E+00	
Aerosols (kg)	2.0346E-21	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.0390E-23	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.8845E-23	
Total I (Ci)		2.0128E-12	

	Deposition	Recirculating
Time (h) =	0.0833	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5672E+01
Organic I (atoms)	0.0000E+00	9.6937E-01
Aerosols (kg)	0.0000E+00	2.9858E-24

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6639E+07
Elemental I (atoms)	5.4205E+04	5.5745E+02
Organic I (atoms)	3.3529E+03	3.4482E+01
Aerosols (kg)	1.0269E-20	1.0560E-22

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.0818E+06
Elemental I (atoms)	0.0000E+00	1.0143E+04
Organic I (atoms)	0.0000E+00	6.2739E+02

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Aerosols (kg) 0.0000E+00 1.9215E-21

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	6.8980E+04	0.0000E+00
Elemental I (atoms)	3.7529E+01	0.0000E+00
Organic I (atoms)	2.3214E+00	0.0000E+00
Aerosols (kg)	7.1502E-24	0.0000E+00

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3819E-09	8.1094E-08	6.9466E-09
Accumulated dose (rem)	4.3874E-09	8.1175E-08	6.9546E-09

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9653E-10	1.1040E-08	9.4567E-10
Accumulated dose (rem)	5.9728E-10	1.1051E-08	9.4676E-10

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6228E-11	2.2853E-09	1.2111E-10
Accumulated dose (rem)	4.6243E-11	2.2859E-09	1.2115E-10

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	7.1446E-09	3.5196E-19	2.5537E+06	5.8959E+04
Kr-85m	1.7301E-08	2.1023E-18	1.4894E+07	1.4125E+05
Kr-85	9.2081E-10	2.3492E-15	1.6644E+10	7.4609E+03
Kr-87	3.0647E-08	1.0819E-18	7.4892E+06	2.5508E+05
Kr-88	4.6034E-08	3.6712E-18	2.5123E+07	3.7748E+05
Rb-88	5.9419E-09	4.9222E-20	3.3684E+05	3.5257E+04
I-131	2.2964E-10	1.8523E-18	8.5151E+06	1.8624E+03
I-132	3.0739E-10	2.9779E-20	1.3586E+05	2.5241E+03
I-133	4.7145E-10	4.1618E-19	1.8844E+06	3.8291E+03
I-134	4.2018E-10	1.5751E-20	7.0787E+04	3.5432E+03
I-135	4.3504E-10	1.2388E-19	5.5260E+05	3.5458E+03
Xe-133	1.1262E-07	6.0164E-16	2.7242E+09	9.1254E+05
Xe-133m	3.4521E-09	7.8411E-18	3.5504E+07	2.7976E+04
Xe-135	4.8490E-08	1.8988E-17	8.4702E+07	3.9174E+05
Xe-135m	1.6640E-08	1.8279E-19	8.1539E+05	1.4201E+05
Xe-138	3.8078E-08	3.9684E-19	1.7318E+06	3.5876E+05
Cs-134	2.0473E-13	1.5823E-19	7.1112E+05	1.6601E+00
Cs-137	1.5894E-13	1.8273E-18	8.0324E+06	1.2888E+00

CR Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	1.9541E+10	0.0000E+00
Elemental I (atoms)	1.0470E+07	0.0000E+00
Organic I (atoms)	6.4764E+05	0.0000E+00
Aerosols (kg)	2.0446E-18	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.9935E-20
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.8012E-20
Total I (Ci)		1.8637E-09

	Deposition	Recirculating
Time (h) =	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.1688E+04
Organic I (atoms)	0.0000E+00	3.8158E+03
Aerosols (kg)	0.0000E+00	1.1977E-20

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6722E+10
Elemental I (atoms)	5.4241E+07	5.4790E+05

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Organic I (atoms)	3.3551E+06	3.3890E+04
Aerosols (kg)	1.0323E-17	1.0428E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0966E+09
Elemental I (atoms)	0.0000E+00	1.0146E+07
Organic I (atoms)	0.0000E+00	6.2759E+05
Aerosols (kg)	0.0000E+00	1.9310E-18

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	2.7513E+08	0.0000E+00
Elemental I (atoms)	1.4770E+05	0.0000E+00
Organic I (atoms)	9.1362E+03	0.0000E+00
Aerosols (kg)	2.8676E-20	0.0000E+00

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4897E-08	5.1507E-07	4.1173E-08
Accumulated dose (rem)	2.9285E-08	5.9624E-07	4.8127E-08

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3894E-09	7.0118E-08	5.6050E-09
Accumulated dose (rem)	3.9867E-09	8.1169E-08	6.5518E-09

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1486E-10	2.3003E-08	1.1795E-09
Accumulated dose (rem)	4.6110E-10	2.5289E-08	1.3006E-09

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	4.9992E-08	2.4628E-18	1.7869E+07	6.0974E+05
Kr-85m	1.2554E-07	1.5254E-17	1.0807E+08	1.5067E+06
Kr-85	6.8561E-09	1.7491E-14	1.2392E+11	8.1365E+04
Kr-87	2.0837E-07	7.3561E-18	5.0919E+07	2.5742E+06
Kr-88	3.2909E-07	2.6245E-17	1.7960E+08	3.9758E+06
Rb-88	5.9047E-08	4.8914E-19	3.3473E+06	5.4486E+05
I-131	1.6726E-09	1.3491E-17	6.2019E+07	2.0106E+04
I-132	2.1471E-09	2.0800E-19	9.4896E+05	2.6301E+04
I-133	3.4168E-09	3.0162E-18	1.3657E+07	4.1164E+04
I-134	2.6840E-09	1.0061E-19	4.5217E+05	3.4219E+04
I-135	3.1155E-09	8.8714E-19	3.9574E+06	3.7732E+04
Xe-133	8.3837E-07	4.4789E-15	2.0280E+10	9.9503E+06
Xe-133m	2.5690E-08	5.8354E-17	2.6422E+08	3.0497E+05
Xe-135	3.6482E-07	1.4286E-16	6.3726E+08	4.3124E+06
Xe-135m	1.0811E-07	1.1876E-18	5.2978E+06	1.3766E+06
Xe-138	1.7400E-07	1.8134E-18	7.9133E+06	2.6017E+06
Cs-134	1.4902E-12	1.1518E-18	5.1764E+06	1.7923E+01
Cs-136	4.5420E-13	6.1972E-21	2.7442E+04	5.4635E+00
Cs-137	1.1570E-12	1.3301E-17	5.8470E+07	1.3915E+01

CR Transport Group Inventory:

Time (h) = 0.5000	Atmosphere	Sump
Noble gases (atoms)	1.4548E+11	0.0000E+00
Elemental I (atoms)	7.5946E+07	0.0000E+00
Organic I (atoms)	4.7914E+06	0.0000E+00
Aerosols (kg)	1.5014E-17	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.1754E-19
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7512E-19
Total I (Ci)		1.3036E-08

	Deposition	Recirculating
Time (h) = 0.5000	Surfaces	Filter

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Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.8254E+05
Organic I (atoms)	0.0000E+00	4.2507E+04
Aerosols (kg)	0.0000E+00	1.3394E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2537E+11
Elemental I (atoms)	3.9771E+08	4.0173E+06
Organic I (atoms)	2.5082E+07	2.5335E+05
Aerosols (kg)	7.5915E-17	7.6682E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3216E+10
Elemental I (atoms)	0.0000E+00	7.4395E+07
Organic I (atoms)	0.0000E+00	4.6917E+06
Aerosols (kg)	0.0000E+00	1.4200E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	3.0815E+09	0.0000E+00
Elemental I (atoms)	1.6342E+06	0.0000E+00
Organic I (atoms)	1.0178E+05	0.0000E+00
Aerosols (kg)	3.2069E-19	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2434E-05	1.9322E-04	3.8514E-05
Accumulated dose (rem)		3.2464E-05	1.9382E-04	3.8562E-05

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4154E-06	2.6304E-05	5.2430E-06
Accumulated dose (rem)		4.4194E-06	2.6385E-05	5.2496E-06

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9413E-06	3.5988E-05	3.6587E-06
Accumulated dose (rem)		1.9417E-06	3.6014E-05	3.6600E-06

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	5.7316E-05	2.8236E-15	2.0487E+10	2.9221E+09
Kr-85m	1.9958E-04	2.4252E-14	1.7182E+11	9.5799E+09
Kr-85	1.3748E-05	3.5073E-11	2.4849E+14	6.3323E+08
Kr-87	1.8445E-04	6.5119E-15	4.5075E+10	9.8823E+09
Kr-88	4.5757E-04	3.6491E-14	2.4972E+11	2.2506E+10
Rb-86	3.6269E-12	4.4574E-20	3.1213E+05	2.3568E+02
Rb-88	2.5190E-04	2.0867E-15	1.4280E+10	7.0102E+09
Sr-89	3.3685E-11	1.1595E-18	7.8455E+06	1.5914E+03
Sr-90	3.6076E-12	2.6447E-17	1.7697E+08	1.7042E+02
Sr-91	3.5922E-11	9.9097E-21	6.5580E+04	1.7295E+03
Sr-92	2.5803E-11	2.0529E-21	1.3438E+04	1.3045E+03
Y-91	4.3161E-13	1.7600E-20	1.1647E+05	2.0296E+01
Zr-95	4.9854E-13	2.3206E-20	1.4711E+05	2.3553E+01
Nb-95	4.9213E-13	1.2585E-20	7.9780E+04	2.3246E+01
Mo-99	6.1677E-12	1.2860E-20	7.8226E+04	2.9215E+02
Ru-103	5.4451E-12	1.6872E-19	9.8643E+05	2.5726E+02
Ru-106	2.2667E-12	6.7751E-19	3.8491E+06	1.0707E+02
Rh-105	3.6042E-12	4.2701E-21	2.4491E+04	1.7028E+02
Sb-127	6.1807E-12	2.3144E-20	1.0975E+05	2.9253E+02
Sb-129	1.4065E-11	2.5011E-21	1.1676E+04	6.9303E+02
Te-127	6.1948E-12	2.3473E-21	1.1131E+04	2.9161E+02

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Te-127m	1.0612E-12	1.1251E-19	5.3350E+05	5.0130E+01
Te-129m	3.4805E-12	1.1553E-19	5.3935E+05	1.6441E+02
Te-131m	1.2590E-11	1.5789E-20	7.2582E+04	5.9831E+02
Te-132	9.2940E-11	3.0613E-19	1.3967E+06	4.4004E+03
I-131	4.9433E-07	3.9873E-15	1.8330E+10	3.0534E+07
I-132	4.3801E-07	4.2434E-17	1.9359E+08	2.9455E+07
I-133	9.6566E-07	8.5245E-16	3.8598E+09	6.0266E+07
I-134	2.4358E-07	9.1307E-18	4.1035E+07	2.0271E+07
I-135	7.9093E-07	2.2522E-16	1.0047E+09	5.0613E+07
Xe-133	1.6708E-03	8.9263E-12	4.0418E+13	7.7057E+10
Xe-133m	5.0746E-05	1.1526E-13	5.2191E+11	2.3446E+09
Xe-135	6.9525E-04	2.7225E-13	1.2145E+12	3.2512E+10
Xe-135m	1.9146E-05	2.1032E-16	9.3819E+08	1.5745E+09
Xe-138	4.3127E-06	4.4946E-17	1.9614E+08	5.7834E+08
Cs-134	3.6378E-10	2.8117E-16	1.2636E+09	2.3627E+04
Cs-136	1.1051E-10	1.5079E-18	6.6770E+06	7.1832E+03
Cs-137	2.8245E-10	3.2472E-15	1.4274E+10	1.8344E+04
Ba-140	4.9381E-11	6.7452E-19	2.9015E+06	2.3340E+03
La-140	1.5104E-12	2.7173E-21	1.1689E+04	6.0852E+01
Ce-141	1.1706E-12	4.1082E-20	1.7546E+05	5.5303E+01
Ce-144	9.3848E-13	2.9424E-19	1.2305E+06	4.4333E+01
Pr-143	4.4875E-13	6.6641E-21	2.8064E+04	2.1178E+01
Np-239	1.3033E-11	5.6181E-20	1.4156E+05	6.1764E+02
Pu-238	2.9165E-15	1.7036E-19	4.3107E+05	1.3777E-01
Pu-239	2.9419E-16	4.7330E-18	1.1926E+07	1.3896E-02
Pu-240	5.1958E-16	2.2812E-19	5.7241E+05	2.4544E-02
Pu-241	1.1543E-13	1.1673E-18	2.9168E+06	5.4528E+00
Am-241	6.5323E-17	1.9068E-20	4.7647E+04	3.0854E-03
Cm-242	1.7934E-14	5.4177E-21	1.3482E+04	8.4719E-01
Cm-244	1.1862E-15	1.4492E-20	3.5768E+04	5.6033E-02

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	2.9113E+14	0.0000E+00	
Elemental I (atoms)	1.8802E+10	0.0000E+00	
Organic I (atoms)	4.5534E+09	0.0000E+00	
Aerosols (kg)	5.6692E-15	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.3105E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.7691E-17	
Total I (Ci)		2.9325E-06	

Deposition Recirculating

Time (h) =	2.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	8.6561E+08	
Organic I (atoms)	0.0000E+00	1.6084E+08	
Aerosols (kg)	0.0000E+00	2.1775E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6400E+14
Elemental I (atoms)	1.1108E+11	1.1220E+09
Organic I (atoms)	2.6019E+10	2.6282E+08
Aerosols (kg)	2.1019E-14	2.1232E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.8888E+13
Elemental I (atoms)	0.0000E+00	2.0778E+10
Organic I (atoms)	0.0000E+00	4.8670E+09
Aerosols (kg)	0.0000E+00	3.9318E-15

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	2.1604E+13	0.0000E+00
Elemental I (atoms)	2.0725E+09	0.0000E+00
Organic I (atoms)	3.8509E+08	0.0000E+00
Aerosols (kg)	5.2136E-16	0.0000E+00

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EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7500E-05	1.1248E-04	3.1033E-05
Accumulated dose (rem)		5.9964E-05	3.0630E-04	6.9595E-05

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.7437E-06	1.5313E-05	4.2247E-06
Accumulated dose (rem)		8.1631E-06	4.1698E-05	9.4743E-06

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9176E-06	2.4969E-05	3.4405E-06
Accumulated dose (rem)		3.8593E-06	6.0983E-05	7.1004E-06

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		8.3947E-05	4.1354E-15	3.0005E+10	5.4419E+09
Kr-85m		3.0868E-04	3.7509E-14	2.6574E+11	1.8608E+10
Kr-85		2.2101E-05	5.6385E-11	3.9948E+14	1.2680E+09
Kr-87		2.5876E-04	9.1351E-15	6.3233E+10	1.7811E+10
Kr-88		6.9206E-04	5.5192E-14	3.7770E+11	4.2963E+10
Rb-86		4.6973E-12	5.7730E-20	4.0425E+05	3.7986E+02
Rb-88		4.2710E-04	3.5380E-15	2.4212E+10	1.6001E+10
Sr-89		5.0801E-11	1.7486E-18	1.1832E+07	3.0802E+03
Sr-90		5.4415E-12	3.9892E-17	2.6693E+08	3.2987E+02
Sr-91		5.3204E-11	1.4677E-20	9.7129E+04	3.3022E+03
Sr-92		3.6510E-11	2.9046E-21	1.9013E+04	2.4075E+03
Y-91		6.5324E-13	2.6637E-20	1.7628E+05	3.9391E+01
Zr-95		7.5189E-13	3.4999E-20	2.2186E+05	4.5587E+01
Nb-95		7.4231E-13	1.8983E-20	1.2034E+05	4.4998E+01
Mo-99		9.2787E-12	1.9346E-20	1.1768E+05	5.6439E+02
Ru-103		8.2116E-12	2.5443E-19	1.4876E+06	4.9792E+02
Ru-106		3.4189E-12	1.0219E-18	5.8057E+06	2.0726E+02
Rh-105		5.4304E-12	6.4337E-21	3.6900E+04	3.2939E+02
Sb-127		9.3052E-12	3.4844E-20	1.6523E+05	5.6545E+02
Sb-129		2.0380E-11	3.6242E-21	1.6919E+04	1.3017E+03
Te-127		9.3419E-12	3.5398E-21	1.6785E+04	5.6451E+02
Te-127m		1.6007E-12	1.6970E-19	8.0470E+05	9.7037E+01
Te-129m		5.2496E-12	1.7426E-19	8.1350E+05	3.1824E+02
Te-131m		1.8881E-11	2.3678E-20	1.0885E+05	1.1531E+03
Te-132		1.3988E-10	4.6073E-19	2.1020E+06	8.5036E+03
I-131		6.6258E-07	5.3445E-15	2.4569E+10	5.0648E+07
I-132		5.5367E-07	5.3639E-17	2.4471E+08	4.6787E+07
I-133		1.2847E-06	1.1341E-15	5.1352E+09	9.9407E+07
I-134		2.6816E-07	1.0052E-17	4.5176E+07	2.9235E+07
I-135		1.0336E-06	2.9432E-16	1.3129E+09	8.2376E+07
Xe-133		2.6829E-03	1.4333E-11	6.4899E+13	1.5416E+11
Xe-133m		8.1344E-05	1.8477E-13	8.3660E+11	4.6842E+09
Xe-135		1.1014E-03	4.3131E-13	1.9240E+12	6.4382E+10
Xe-135m		2.0114E-05	2.2095E-16	9.8562E+08	2.3098E+09
Xe-138		3.3338E-06	3.4745E-17	1.5162E+08	7.1640E+08
Cs-134		4.7133E-10	3.6429E-16	1.6372E+09	3.8091E+04
Cs-136		1.4311E-10	1.9526E-18	8.6463E+06	1.1576E+04
Cs-137		3.6595E-10	4.2072E-15	1.8494E+10	2.9574E+04
Ba-140		7.4441E-11	1.0168E-18	4.3739E+06	4.5160E+03
La-140		2.5380E-12	4.5661E-21	1.9641E+04	1.2973E+02
Ce-141		1.7654E-12	6.1957E-20	2.6462E+05	1.0704E+02
Ce-143		1.6432E-12	2.4743E-21	1.0420E+04	1.0028E+02
Ce-144		1.4155E-12	4.4381E-19	1.8560E+06	8.5814E+01
Pr-143		6.7730E-13	1.0058E-20	4.2357E+04	4.1015E+01
Nd-147		2.7341E-13	3.3797E-21	1.3846E+04	1.6589E+01
Np-239		1.9599E-11	8.4481E-20	2.1287E+05	1.1928E+03
Pu-238		4.3992E-15	2.5697E-19	6.5020E+05	2.6668E-01
Pu-239		4.4375E-16	7.1393E-18	1.7989E+07	2.6900E-02
Pu-240		7.8370E-16	3.4409E-19	8.6340E+05	4.7509E-02
Pu-241		1.7411E-13	1.7606E-18	4.3995E+06	1.0555E+01
Am-241		9.8536E-17	2.8763E-20	7.1873E+04	5.9728E-03
Cm-242		2.7049E-14	8.1714E-21	2.0334E+04	1.6399E+00

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Cm-244 1.7892E-15 2.1859E-20 5.3950E+04 1.0846E-01

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	4.6788E+14	0.0000E+00	
Elemental I (atoms)	2.4425E+10	0.0000E+00	
Organic I (atoms)	6.7857E+09	0.0000E+00	
Aerosols (kg)	8.1875E-15	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		8.4340E-17
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0349E-16
Total I (Ci)			3.8027E-06

		Deposition	Recirculating
Time (h) =	2.2500	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.4309E+09	
Organic I (atoms)	0.0000E+00	3.0775E+08	
Aerosols (kg)	0.0000E+00	3.9140E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway	
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3300E+14	
Elemental I (atoms)	1.4980E+11	1.5132E+09	
Organic I (atoms)	3.9995E+10	4.0399E+08	
Aerosols (kg)	2.8284E-14	2.8570E-16	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway	
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.0185E+13	
Elemental I (atoms)	0.0000E+00	2.8022E+10	
Organic I (atoms)	0.0000E+00	7.4813E+09	
Aerosols (kg)	0.0000E+00	5.2907E-15	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway	
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	4.5009E+13	0.0000E+00	
Elemental I (atoms)	3.4261E+09	0.0000E+00	
Organic I (atoms)	7.3685E+08	0.0000E+00	
Aerosols (kg)	9.3712E-16	0.0000E+00	

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3347E-05	8.7210E-05	2.6085E-05
Accumulated dose (rem)		8.3311E-05	3.9351E-04	9.5680E-05

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1783E-06	1.1872E-05	3.5511E-06
Accumulated dose (rem)		1.1341E-05	5.3571E-05	1.3025E-05

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6118E-06	1.8934E-05	2.8668E-06
Accumulated dose (rem)		5.4711E-06	7.9917E-05	9.9673E-06

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		1.0625E-04	5.2342E-15	3.7977E+10	7.4896E+09
Kr-85m		4.0367E-04	4.9052E-14	3.4753E+11	2.6264E+10
Kr-85		2.9582E-05	7.5469E-11	5.3469E+14	1.8227E+09
Kr-87		3.1915E-04	1.1267E-14	7.7991E+10	2.4041E+10
Kr-88		8.9300E-04	7.1216E-14	4.8736E+11	6.0011E+10
Rb-86		5.4969E-12	6.7556E-20	4.7306E+05	4.8596E+02
Rb-88		5.6060E-04	4.6439E-15	3.1780E+10	2.4109E+10

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Sr-89	6.5035E-11	2.2386E-18	1.5147E+07	4.3117E+03
Sr-90	6.9667E-12	5.1073E-17	3.4174E+08	4.6179E+02
Sr-91	6.7375E-11	1.8586E-20	1.2300E+05	4.5848E+03
Sr-92	4.4984E-11	3.5788E-21	2.3426E+04	3.2755E+03
Y-91	8.3796E-13	3.4169E-20	2.2612E+05	5.5229E+01
Y-92	1.4984E-11	1.5572E-21	1.0193E+04	8.3723E+02
Zr-95	9.6257E-13	4.4806E-20	2.8403E+05	6.3814E+01
Nb-95	9.5037E-13	2.4304E-20	1.5407E+05	6.2992E+01
Mo-99	1.1861E-11	2.4730E-20	1.5043E+05	7.8914E+02
Tc-99m	1.0692E-11	2.0333E-21	1.2368E+04	7.0552E+02
Ru-103	1.0512E-11	3.2571E-19	1.9044E+06	6.9697E+02
Ru-106	4.3771E-12	1.3083E-18	7.4329E+06	2.9014E+02
Rh-105	6.9474E-12	8.2310E-21	4.7208E+04	4.6090E+02
Sb-127	1.1900E-11	4.4560E-20	2.1130E+05	7.9090E+02
Sb-129	2.5472E-11	4.5296E-21	2.1146E+04	1.7898E+03
Te-127	1.1959E-11	4.5313E-21	2.1487E+04	7.9028E+02
Te-127m	2.0494E-12	2.1727E-19	1.0303E+06	1.3584E+02
Te-129m	6.7209E-12	2.2310E-19	1.0415E+06	4.4549E+02
Te-131m	2.4089E-11	3.0210E-20	1.3888E+05	1.6100E+03
Te-132	1.7884E-10	5.8909E-19	2.6876E+06	1.1892E+04
I-131	7.9421E-07	6.4062E-15	2.9450E+10	6.5897E+07
I-132	6.4214E-07	6.2210E-17	2.8382E+08	5.9359E+07
I-133	1.5331E-06	1.3533E-15	6.1278E+09	1.2891E+08
I-134	2.8563E-07	1.0707E-17	4.8120E+07	3.5051E+07
I-135	1.2202E-06	3.4746E-16	1.5500E+09	1.0598E+08
Xe-133	3.5885E-03	1.9171E-11	8.6805E+13	2.2147E+11
Xe-133m	1.0869E-04	2.4688E-13	1.1179E+12	6.7240E+09
Xe-135	1.4618E-03	5.7243E-13	2.5535E+12	9.1925E+10
Xe-135m	2.1633E-05	2.3763E-16	1.0601E+09	2.7840E+09
Xe-138	2.8758E-06	2.9971E-17	1.3079E+08	7.8379E+08
Cs-134	5.5168E-10	4.2640E-16	1.9163E+09	4.8739E+04
Cs-136	1.6745E-10	2.2848E-18	1.0117E+07	1.4808E+04
Cs-137	4.2834E-10	4.9245E-15	2.1647E+10	3.7841E+04
Ba-140	9.5273E-11	1.3014E-18	5.5980E+06	6.3203E+03
La-140	3.4428E-12	6.1940E-21	2.6644E+04	1.9161E+02
Ce-141	2.2600E-12	7.9316E-20	3.3876E+05	1.4983E+02
Ce-143	2.0971E-12	3.1579E-21	1.3299E+04	1.4005E+02
Ce-144	1.8122E-12	5.6819E-19	2.3762E+06	1.2013E+02
Pr-143	8.6746E-13	1.2882E-20	5.4250E+04	5.7433E+01
Nd-147	3.4991E-13	4.3253E-21	1.7719E+04	2.3215E+01
Np-239	2.5046E-11	1.0796E-19	2.7203E+05	1.6675E+03
Pu-238	5.6322E-15	3.2899E-19	8.3245E+05	3.7333E-01
Pu-239	5.6814E-16	9.1405E-18	2.3032E+07	3.7657E-02
Pu-240	1.0034E-15	4.4053E-19	1.1054E+06	6.6508E-02
Pu-241	2.2292E-13	2.2541E-18	5.6326E+06	1.4776E+01
Am-241	1.2616E-16	3.6826E-20	9.2022E+04	8.3615E-03
Cm-242	3.4630E-14	1.0461E-20	2.6033E+04	2.2956E+00
Cm-244	2.2907E-15	2.7986E-20	6.9071E+04	1.5184E-01

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump	
Noble gases (atoms)	6.2612E+14	0.0000E+00		
Elemental I (atoms)	2.8649E+10	0.0000E+00		
Organic I (atoms)	8.6982E+09	0.0000E+00		
Aerosols (kg)	1.0092E-14	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0092E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.2360E-16	
Total I (Ci)			4.4753E-06	

Deposition Recirculating

Time (h) =	2.4000	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	1.8492E+09		
Organic I (atoms)	0.0000E+00	4.2941E+08		
Aerosols (kg)	0.0000E+00	5.3002E-16		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway		
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8394E+14	
Elemental I (atoms)	1.7877E+11	1.8057E+09	
Organic I (atoms)	5.1891E+10	5.2415E+08	
Aerosols (kg)	3.3705E-14	3.4046E-16	

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CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0814E+14
Elemental I (atoms)	0.0000E+00	3.3439E+10
Organic I (atoms)	0.0000E+00	9.7065E+09
Aerosols (kg)	0.0000E+00	6.3048E-15

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	
	Filtered	Transported
Noble gases (atoms)	6.5545E+13	0.0000E+00
Elemental I (atoms)	4.4277E+09	0.0000E+00
Organic I (atoms)	1.0282E+09	0.0000E+00
Aerosols (kg)	1.2690E-15	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.5793E-04	2.3089E-03	8.3027E-04
Accumulated dose (rem)		8.4125E-04	2.7024E-03	9.2595E-04

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0318E-04	3.1432E-04	1.1303E-04
Accumulated dose (rem)		1.1452E-04	3.6789E-04	1.2605E-04

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.2144E-05	5.8867E-04	1.2415E-04
Accumulated dose (rem)		7.7615E-05	6.6859E-04	1.3412E-04

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		6.4790E-04	3.1917E-14	2.3158E+11	8.3845E+10
Kr-85m		3.4885E-03	4.2391E-13	3.0033E+12	3.8949E+11
Kr-85		3.2746E-04	8.3541E-10	5.9188E+15	3.3199E+10
Kr-87		1.4769E-03	5.2141E-14	3.6092E+11	2.1717E+11
Kr-88		6.6893E-03	5.3347E-13	3.6507E+12	7.9205E+11
Rb-86		2.2153E-11	2.7225E-19	1.9065E+06	3.2777E+03
Rb-88		5.1613E-03	4.2756E-14	2.9259E+11	4.2562E+11
Sr-89		4.5628E-10	1.5706E-17	1.0627E+08	5.4257E+04
Sr-90		4.8923E-11	3.5865E-16	2.3998E+09	5.8152E+03
Sr-91		4.2100E-10	1.1614E-19	7.6857E+05	5.2635E+04
Sr-92		2.0980E-10	1.6691E-20	1.0926E+05	2.9997E+04
Y-90		2.0254E-12	3.7228E-21	2.4910E+04	2.0031E+02
Y-91		6.0066E-12	2.4493E-19	1.6209E+06	7.0715E+02
Y-92		1.3689E-10	1.4226E-20	9.3122E+04	1.4531E+04
Zr-95		6.7546E-12	3.1442E-19	1.9931E+06	8.0314E+02
Zr-97		5.5399E-12	2.8979E-21	1.7991E+04	6.7732E+02
Nb-95		6.6738E-12	1.7067E-19	1.0819E+06	7.9325E+02
Mo-99		8.1902E-11	1.7077E-19	1.0388E+06	9.8054E+03
Tc-99m		7.4744E-11	1.4215E-20	8.6467E+04	8.8532E+03
Ru-103		7.3733E-11	2.2846E-18	1.3357E+07	8.7686E+03
Ru-105		2.8212E-11	4.1970E-21	2.4071E+04	3.7439E+03
Ru-106		3.0734E-11	9.1863E-18	5.2190E+07	3.6533E+03
Rh-105		4.8271E-11	5.7189E-20	3.2800E+05	5.7619E+03
Sb-127		8.2569E-11	3.0919E-19	1.4661E+06	9.8649E+03
Sb-129		1.3837E-10	2.4607E-20	1.1487E+05	1.8421E+04
Te-127		8.3815E-11	3.1759E-20	1.5059E+05	9.9355E+03
Te-127m		1.4392E-11	1.5258E-18	7.2349E+06	1.7107E+03
Te-129		1.7472E-10	8.3427E-21	3.8946E+04	2.1881E+04
Te-129m		4.7179E-11	1.5661E-18	7.3111E+06	5.6088E+03
Te-131m		1.6302E-10	2.0444E-19	9.3984E+05	1.9687E+04
Te-132		1.2382E-09	4.0785E-18	1.8607E+07	1.4807E+05
I-131		4.1357E-06	3.3359E-14	1.5335E+11	5.4452E+08
I-132		2.3891E-06	2.3145E-16	1.0559E+09	3.7557E+08
I-133		7.6108E-06	6.7185E-15	3.0421E+10	1.0256E+09

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I-134	4.2211E-07	1.5823E-17	7.1111E+07	1.1803E+08
I-135	5.4026E-06	1.5384E-15	6.8625E+09	7.7085E+08
Xe-133	3.9417E-02	2.1058E-10	9.5350E+14	4.0082E+12
Xe-133m	1.1807E-03	2.6820E-12	1.2144E+13	1.2058E+11
Xe-135	1.4668E-02	5.7436E-12	2.5621E+13	1.5467E+12
Xe-135m	4.3403E-05	4.7678E-16	2.1269E+09	1.0740E+10
Xe-138	2.9359E-07	3.0598E-18	1.3352E+07	1.0769E+09
Cs-134	2.2287E-09	1.7225E-15	7.7414E+09	3.2933E+05
Cs-136	6.7413E-10	9.1980E-18	4.0729E+07	9.9798E+04
Cs-137	1.7305E-09	1.9895E-14	8.7453E+10	2.5571E+05
Ba-139	9.2484E-11	5.6541E-21	2.4496E+04	1.6158E+04
Ba-140	6.6662E-10	9.1058E-18	3.9169E+07	7.9361E+04
La-140	3.9503E-11	7.1071E-20	3.0571E+05	3.8314E+03
Ce-141	1.5854E-11	5.5643E-19	2.3765E+06	1.8854E+03
Ce-143	1.4240E-11	2.1443E-20	9.0302E+04	1.7171E+03
Ce-144	1.2724E-11	3.9894E-18	1.6684E+07	1.5126E+03
Pr-143	6.1163E-12	9.0829E-20	3.8251E+05	7.2555E+02
Nd-147	2.4469E-12	3.0246E-20	1.2391E+05	2.9137E+02
Np-239	1.7246E-10	7.4341E-19	1.8732E+06	2.0672E+04
Pu-238	3.9552E-14	2.3103E-18	5.8458E+06	4.7013E+00
Pu-239	3.9906E-15	6.4203E-17	1.6177E+08	4.7430E-01
Pu-240	7.0460E-15	3.0936E-18	7.7625E+06	8.3753E-01
Pu-241	1.5654E-12	1.5829E-17	3.9554E+07	1.8607E+02
Am-241	8.8637E-16	2.5873E-19	6.4652E+05	1.0533E-01
Cm-242	2.4311E-13	7.3443E-20	1.8276E+05	2.8901E+01
Cm-244	1.6086E-14	1.9652E-19	4.8504E+05	1.9121E+00

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	6.9173E+15	0.0000E+00	
Elemental I (atoms)	1.1728E+11	0.0000E+00	
Organic I (atoms)	7.4020E+10	0.0000E+00	
Aerosols (kg)	6.4978E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.1661E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	6.2220E-16	
Total I (Ci)		1.9960E-05	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3021E+10
Organic I (atoms)	0.0000E+00	6.0344E+09
Aerosols (kg)	0.0000E+00	5.6468E-15

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.8882E+15
Elemental I (atoms)	8.2885E+11	8.3722E+09
Organic I (atoms)	4.8386E+11	4.8875E+09
Aerosols (kg)	1.5521E-13	1.5678E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2756E+15
Elemental I (atoms)	0.0000E+00	1.5504E+11
Organic I (atoms)	0.0000E+00	9.0510E+10
Aerosols (kg)	0.0000E+00	2.9033E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	1.2396E+15	0.0000E+00
Elemental I (atoms)	3.1176E+10	0.0000E+00
Organic I (atoms)	1.4448E+10	0.0000E+00
Aerosols (kg)	1.3520E-14	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	7.5582E-03	2.5044E-02	8.3390E-03
Accumulated dose (rem)	8.3994E-03	2.7747E-02	9.2649E-03

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0289E-03	3.4094E-03	1.1352E-03
Accumulated dose (rem)		1.1435E-03	3.7773E-03	1.2613E-03

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4157E-03	1.0565E-02	2.4754E-03
Accumulated dose (rem)		1.4933E-03	1.1234E-02	2.6095E-03

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m		2.1607E-03	1.0644E-13	7.7230E+11	9.3339E+11
Kr-85m		2.7819E-02	3.3803E-12	2.3949E+13	8.2014E+12
Kr-85		4.8487E-03	1.2370E-08	8.7641E+16	1.1388E+12
Kr-87		2.4714E-03	8.7250E-14	6.0394E+11	1.5358E+12
Kr-88		3.7313E-02	2.9757E-12	2.0364E+13	1.2744E+13
Rb-86		1.1160E-10	1.3715E-18	9.6041E+06	3.7572E+04
Rb-88		3.5117E-02	2.9091E-13	1.9908E+12	9.1620E+12
Sr-89		3.1173E-09	1.0730E-16	7.2604E+08	9.4609E+05
Sr-90		3.3500E-10	2.4559E-15	1.6433E+10	1.0158E+05
Sr-91		2.1531E-09	5.9397E-19	3.9307E+06	7.3913E+05
Sr-92		5.1644E-10	4.1087E-20	2.6895E+05	2.5235E+05
Y-90		2.7052E-11	4.9722E-20	3.3270E+05	6.5071E+03
Y-91		4.3026E-11	1.7545E-18	1.1610E+07	1.2813E+04
Y-92		8.6998E-10	9.0413E-20	5.9182E+05	2.8089E+05
Y-93		2.5288E-11	7.5796E-21	4.9081E+04	8.6149E+03
Zr-95		4.6170E-11	2.1491E-18	1.3624E+07	1.4010E+04
Zr-97		3.2195E-11	1.6841E-20	1.0456E+05	1.0456E+04
Nb-95		4.5700E-11	1.1687E-18	7.4085E+06	1.3856E+04
Mo-99		5.3776E-10	1.1212E-18	6.8205E+06	1.6591E+05
Tc-99m		5.0204E-10	9.5476E-20	5.8078E+05	1.5270E+05
Ru-103		5.0341E-10	1.5598E-17	9.1197E+07	1.5283E+05
Ru-105		1.0346E-10	1.5391E-20	8.8276E+04	4.1377E+04
Ru-106		2.1039E-10	6.2885E-17	3.5726E+08	6.3800E+04
Rh-105		3.1641E-10	3.7487E-19	2.1500E+06	9.7778E+04
Sb-127		5.4868E-10	2.0546E-18	9.7426E+06	1.6844E+05
Sb-129		4.9872E-10	8.8687E-20	4.1402E+05	2.0112E+05
Te-127		5.6908E-10	2.1563E-19	1.0225E+06	1.7259E+05
Te-127m		9.8552E-11	1.0448E-17	4.9543E+07	2.9882E+04
Te-129		7.5261E-10	3.5937E-20	1.6777E+05	2.7209E+05
Te-129m		3.2249E-10	1.0705E-17	4.9973E+07	9.7859E+04
Te-131m		1.0178E-09	1.2764E-18	5.8675E+06	3.2067E+05
Te-132		8.1835E-09	2.6955E-17	1.2298E+08	2.5179E+06
I-131		3.2431E-05	2.6159E-13	1.2026E+12	9.1748E+09
I-132		8.4799E-06	8.2153E-16	3.7480E+09	3.3957E+09
I-133		5.2973E-05	4.6763E-14	2.1174E+11	1.5734E+10
I-134		1.4204E-07	5.3246E-18	2.3929E+07	2.8336E+08
I-135		2.8246E-05	8.0429E-15	3.5878E+10	9.4897E+09
Xe-133		5.7172E-01	3.0544E-09	1.3830E+16	1.3524E+14
Xe-133m		1.6628E-02	3.7770E-11	1.7102E+14	3.9740E+12
Xe-135		1.6327E-01	6.3934E-11	2.8520E+14	4.2495E+13
Xe-135m		9.4918E-05	1.0427E-15	4.6512E+09	5.5235E+10
Cs-134		1.1295E-08	8.7301E-15	3.9234E+10	3.7925E+06
Cs-136		3.3871E-09	4.6215E-17	2.0464E+08	1.1417E+06
Cs-137		8.7717E-09	1.0085E-13	4.4329E+11	2.9450E+06
Ba-139		8.4722E-11	5.1796E-21	2.2440E+04	7.4539E+04
Ba-140		4.5236E-09	6.1790E-17	2.6579E+08	1.3767E+06
La-140		5.4588E-10	9.8210E-19	4.2245E+06	1.3027E+05
Ce-141		1.0824E-10	3.7988E-18	1.6225E+07	3.2861E+04
Ce-143		8.9651E-11	1.3500E-19	5.6852E+05	2.8147E+04
Ce-144		8.7095E-11	2.7307E-17	1.1420E+08	2.6413E+04
Pr-143		4.2303E-11	6.2821E-19	2.6456E+06	1.2773E+04
Nd-147		1.6580E-11	2.0495E-19	8.3960E+05	5.0490E+03
Np-239		1.1244E-09	4.8469E-18	1.2213E+07	3.4792E+05
Pu-238		2.7084E-13	1.5820E-17	4.0031E+07	8.2122E+01
Pu-239		2.7341E-14	4.3988E-16	1.1084E+09	8.2884E+00
Pu-240		4.8248E-14	2.1184E-17	5.3155E+07	1.4630E+01

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Pu-241	1.0719E-11	1.0839E-16	2.7084E+08	3.2501E+03
Am-241	6.0772E-15	1.7739E-18	4.4327E+06	1.8417E+00
Cm-242	1.6636E-12	5.0256E-19	1.2506E+06	5.0456E+02
Cm-244	1.1015E-13	1.3457E-18	3.3213E+06	3.3399E+01

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	1.0197E+17	0.0000E+00	
Elemental I (atoms)	5.7643E+11	0.0000E+00	
Organic I (atoms)	8.7523E+11	0.0000E+00	
Aerosols (kg)	4.0442E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.9038E-15
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.5648E-15
Total I (Ci)			1.2227E-04

		Deposition	Recirculating
Time (h) =	8.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.5238E+11	
Organic I (atoms)	0.0000E+00	1.6856E+11	
Aerosols (kg)	0.0000E+00	9.7924E-14	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2340E+17
Elemental I (atoms)	5.6394E+12	5.6964E+10
Organic I (atoms)	7.4417E+12	7.5169E+10
Aerosols (kg)	1.0825E-12	1.0935E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.2852E+16
Elemental I (atoms)	0.0000E+00	1.0549E+12
Organic I (atoms)	0.0000E+00	1.3920E+12
Aerosols (kg)	0.0000E+00	2.0249E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	4.4079E+16	0.0000E+00
Elemental I (atoms)	3.6485E+11	0.0000E+00
Organic I (atoms)	4.0359E+11	0.0000E+00
Aerosols (kg)	2.3446E-13	0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1774E-02	1.7316E-01	3.7143E-02
Accumulated dose (rem)		4.0174E-02	2.0090E-01	4.6407E-02

LPZ Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9104E-03	8.1568E-03	3.1633E-03
Accumulated dose (rem)		4.0539E-03	1.1934E-02	4.4246E-03

CR Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8276E-03	5.0046E-02	8.6972E-03
Accumulated dose (rem)		6.3209E-03	6.1280E-02	1.1307E-02

CR Compartment Nuclide Inventory:

Time (h) =	16.0000	Ci	kg	Atoms	Decay
Kr-83m		3.0773E-04	1.5160E-14	1.0999E+11	1.8894E+12
Kr-85m		2.2652E-02	2.7526E-12	1.9501E+13	3.4070E+13
Kr-85		1.3613E-02	3.4730E-08	2.4605E+17	1.0052E+13
Kr-87		8.8615E-05	3.1284E-15	2.1655E+10	2.2489E+12

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Kr-88	1.4867E-02	1.1856E-12	8.1137E+12	3.7571E+13
Rb-86	1.0478E-10	1.2877E-18	9.0172E+06	1.4280E+05
Rb-88	4.2718E-02	3.5387E-13	2.4216E+12	2.8766E+13
Sr-89	3.3609E-09	1.1569E-16	7.8278E+08	4.1202E+06
Sr-90	3.6283E-10	2.6599E-15	1.7798E+10	4.4349E+05
Sr-91	1.3009E-09	3.5887E-19	2.3749E+06	2.3883E+06
Sr-92	7.2284E-11	5.7508E-21	3.7643E+04	4.7072E+05
Y-90	5.6745E-11	1.0430E-19	6.9789E+05	4.6756E+04
Y-91	4.9269E-11	2.0090E-18	1.3295E+07	5.8085E+04
Y-92	3.4495E-10	3.5849E-20	2.3466E+05	8.5028E+05
Y-93	1.5818E-11	4.7410E-21	3.0700E+04	2.8301E+04
Zr-95	4.9826E-11	2.3193E-18	1.4702E+07	6.1044E+04
Zr-97	2.5116E-11	1.3138E-20	8.1568E+04	3.8318E+04
Nb-95	4.9497E-11	1.2658E-18	8.0241E+06	6.0490E+04
Mo-99	5.3551E-10	1.1165E-18	6.7919E+06	6.9160E+05
Tc-99m	5.1986E-10	9.8867E-20	6.0140E+05	6.3930E+05
Ru-103	5.4204E-10	1.6795E-17	9.8197E+07	6.6507E+05
Ru-105	3.2140E-11	4.7814E-21	2.7423E+04	1.0057E+05
Ru-106	2.2772E-10	6.8067E-17	3.8671E+08	2.7846E+05
Rh-105	3.0214E-10	3.5796E-19	2.0530E+06	4.0119E+05
Sb-127	5.5966E-10	2.0957E-18	9.9375E+06	7.1143E+05
Sb-129	1.4965E-10	2.6611E-20	1.2423E+05	4.8244E+05
Te-127	6.0333E-10	2.2861E-19	1.0840E+06	7.3680E+05
Te-127m	1.0674E-10	1.1316E-17	5.3657E+07	1.3046E+05
Te-129	4.8821E-10	2.3312E-20	1.0883E+05	7.6396E+05
Te-129m	3.4735E-10	1.1530E-17	5.3826E+07	4.2609E+05
Te-131m	9.1632E-10	1.1491E-18	5.2826E+06	1.2662E+06
Te-132	8.2568E-09	2.7197E-17	1.2408E+08	1.0571E+07
I-131	5.7279E-05	4.6203E-13	2.1240E+12	5.2222E+10
I-132	5.8825E-06	5.6989E-16	2.6000E+09	9.8972E+09
I-133	7.3721E-05	6.5078E-14	2.9467E+11	7.7335E+10
I-134	4.6205E-10	1.7320E-20	7.7841E+04	3.0692E+08
I-135	2.2179E-05	6.3153E-15	2.8172E+10	3.3877E+10
Xe-133	1.5384E+00	8.2186E-09	3.7213E+16	1.1598E+15
Xe-133m	4.2122E-02	9.5676E-11	4.3321E+14	3.2724E+13
Xe-135	2.5120E-01	9.8366E-11	4.3880E+14	2.5480E+14
Xe-135m	2.5859E-05	2.8406E-16	1.2672E+09	1.1661E+11
Cs-134	1.0734E-08	8.2963E-15	3.7285E+10	1.4508E+07
Cs-136	3.1635E-09	4.3163E-17	1.9113E+08	4.3271E+06
Cs-137	8.3382E-09	9.5861E-14	4.2138E+11	1.1268E+07
Ba-140	4.8114E-09	6.5722E-17	2.8270E+08	5.9506E+06
La-140	1.1359E-09	2.0437E-18	8.7909E+06	9.3985E+05
Ce-141	1.1645E-10	4.0870E-18	1.7456E+07	1.4296E+05
Ce-143	8.2082E-11	1.2360E-19	5.2052E+05	1.1214E+05
Ce-144	9.4256E-11	2.9552E-17	1.2359E+08	1.1527E+05
Pr-143	4.6542E-11	6.9116E-19	2.9107E+06	5.6280E+04
Nd-147	1.7584E-11	2.1735E-19	8.9043E+05	2.1788E+04
Np-239	1.1041E-09	4.7591E-18	1.1992E+07	1.4393E+06
Pu-238	2.9336E-13	1.7136E-17	4.3359E+07	3.5856E+02
Pu-239	2.9644E-14	4.7692E-16	1.2017E+09	3.6208E+01
Pu-240	5.2258E-14	2.2944E-17	5.7572E+07	6.3874E+01
Pu-241	1.1609E-11	1.1739E-16	2.9334E+08	1.4190E+04
Am-241	6.5990E-15	1.9262E-18	4.8133E+06	8.0520E+00
Cm-242	1.7993E-12	5.4355E-19	1.3526E+06	2.2012E+03
Cm-244	1.1930E-13	1.4575E-18	3.5972E+06	1.4582E+02

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	2.8417E+17	0.0000E+00
Elemental I (atoms)	4.9265E+11	0.0000E+00
Organic I (atoms)	1.9547E+12	0.0000E+00
Aerosols (kg)	4.6218E-13	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.5093E-15
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.3264E-15
Total I (Ci)		1.5906E-04

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.6203E+11
Organic I (atoms)	0.0000E+00	1.2010E+12
Aerosols (kg)	0.0000E+00	3.8902E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6384E+17
Elemental I (atoms)	1.2461E+13	1.2587E+11
Organic I (atoms)	3.1186E+13	3.1501E+11
Aerosols (kg)	2.5169E-12	2.5424E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0441E+17
Elemental I (atoms)	0.0000E+00	2.3309E+12
Organic I (atoms)	0.0000E+00	5.8335E+12
Aerosols (kg)	0.0000E+00	4.7081E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	3.8259E+17	0.0000E+00
Elemental I (atoms)	1.3457E+12	0.0000E+00
Organic I (atoms)	2.8756E+12	0.0000E+00
Aerosols (kg)	9.3143E-13	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8916E-02	3.3690E-01	4.9316E-02
Accumulated dose (rem)	7.9089E-02	5.3780E-01	9.5723E-02

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5645E-03	1.5870E-02	4.0544E-03
Accumulated dose (rem)	7.6184E-03	2.7804E-02	8.4790E-03

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1030E-03	9.8512E-02	1.1018E-02
Accumulated dose (rem)	1.2424E-02	1.5979E-01	2.2325E-02

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	3.4394E-05	1.6943E-15	1.2293E+10	2.0361E+12
Kr-85m	1.4475E-02	1.7589E-12	1.2462E+13	5.5456E+13
Kr-85	2.9991E-02	7.6514E-08	5.4209E+17	3.4209E+13
Kr-87	2.4935E-06	8.8028E-17	6.0933E+08	2.2773E+12
Kr-88	4.6485E-03	3.7071E-13	2.5369E+12	4.7887E+13
Rb-86	1.1226E-10	1.3796E-18	9.6608E+06	2.6146E+05
Rb-88	1.3434E-02	1.1129E-13	7.6159E+11	3.6888E+13
Sr-89	3.9385E-09	1.3557E-16	9.1730E+08	8.1306E+06
Sr-90	4.2712E-10	3.1312E-15	2.0952E+10	8.7744E+05
Sr-91	8.5429E-10	2.3567E-19	1.5596E+06	3.5589E+06
Y-90	9.6578E-11	1.7751E-19	1.1878E+06	1.2794E+05
Y-91	5.9612E-11	2.4308E-18	1.6086E+07	1.1782E+05
Y-92	1.0848E-10	1.1274E-20	7.3795E+04	1.0753E+06
Y-93	1.0754E-11	3.2232E-21	2.0872E+04	4.2766E+04
Zr-95	5.8445E-11	2.7205E-18	1.7246E+07	1.2053E+05
Zr-97	2.1297E-11	1.1140E-20	6.9164E+04	6.3829E+04
Nb-95	5.8267E-11	1.4901E-18	9.4459E+06	1.1967E+05
Mo-99	5.7962E-10	1.2085E-18	7.3513E+06	1.3053E+06
Tc-99m	5.8058E-10	1.1041E-19	6.7164E+05	1.2142E+06
Ru-103	6.3437E-10	1.9656E-17	1.1492E+08	1.3114E+06
Ru-106	2.6792E-10	8.0081E-17	4.5496E+08	5.5074E+05
Rh-105	3.0718E-10	3.6393E-19	2.0873E+06	7.3684E+05
Sb-127	6.2048E-10	2.3234E-18	1.1017E+07	1.3607E+06
Sb-129	4.8805E-11	8.6789E-21	4.0516E+04	5.8173E+05
Te-127	6.9234E-10	2.6234E-19	1.2440E+06	1.4251E+06
Te-127m	1.2563E-10	1.3319E-17	6.3155E+07	2.5809E+05
Te-129	4.1983E-10	2.0047E-20	9.3586E+04	1.1422E+06

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Te-129m	4.0626E-10	1.3486E-17	6.2955E+07	8.4016E+05
Te-131m	8.9667E-10	1.1245E-18	5.1693E+06	2.2647E+06
Te-132	9.0547E-09	2.9825E-17	1.3607E+08	2.0097E+07
I-131	1.0417E-04	8.4028E-13	3.8628E+12	1.4193E+11
I-132	9.0845E-06	8.8010E-16	4.0152E+09	1.9499E+10
I-133	1.0565E-04	9.3262E-14	4.2228E+11	1.7894E+11
I-135	1.7933E-05	5.1064E-15	2.2779E+10	5.6800E+10
Xe-133	3.2474E+00	1.7349E-08	7.8555E+16	3.8252E+15
Xe-133m	8.3687E-02	1.9009E-10	8.6070E+14	1.0330E+14
Xe-135	3.0141E-01	1.1803E-10	5.2650E+14	5.7684E+14
Xe-135m	1.5732E-05	1.7281E-16	7.7089E+08	1.8003E+11
Cs-134	1.1640E-08	8.9964E-15	4.0431E+10	2.6738E+07
Cs-136	3.3715E-09	4.6002E-17	2.0370E+08	7.9001E+06
Cs-137	9.0444E-09	1.0398E-13	4.5707E+11	2.0769E+07
Ba-140	5.5633E-09	7.5979E-17	3.2683E+08	1.1652E+07
La-140	1.8873E-09	3.3954E-18	1.4606E+07	2.5423E+06
Ce-141	1.3614E-10	4.7778E-18	2.0406E+07	2.8174E+05
Ce-143	8.1683E-11	1.2300E-19	5.1799E+05	2.0233E+05
Ce-144	1.1087E-10	3.4761E-17	1.4537E+08	2.2795E+05
Pr-143	5.5354E-11	8.2202E-19	3.4618E+06	1.1216E+05
Nd-147	2.0269E-11	2.5055E-19	1.0264E+06	4.2594E+04
Np-239	1.1783E-09	5.0789E-18	1.2798E+07	2.6956E+06
Pu-238	3.4536E-13	2.0173E-17	5.1045E+07	7.0943E+02
Pu-239	3.4930E-14	5.6197E-16	1.4160E+09	7.1679E+01
Pu-240	6.1519E-14	2.7010E-17	6.7775E+07	1.2638E+02
Pu-241	1.3666E-11	1.3819E-16	3.4531E+08	2.8075E+04
Am-241	7.7883E-15	2.2734E-18	5.6808E+06	1.5954E+01
Cm-242	2.1151E-12	6.3897E-19	1.5901E+06	4.3517E+03
Cm-244	1.4043E-13	1.7157E-18	4.2345E+06	2.8850E+02

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	6.2205E+17	0.0000E+00
Elemental I (atoms)	4.7036E+11	0.0000E+00
Organic I (atoms)	3.8394E+12	0.0000E+00
Aerosols (kg)	2.2909E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1339E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2442E-14
Total I (Ci)		2.3684E-04

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	9.7845E+11
Organic I (atoms)	0.0000E+00	3.6602E+12
Aerosols (kg)	0.0000E+00	6.5205E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6174E+18
Elemental I (atoms)	1.9677E+13	1.9875E+11
Organic I (atoms)	8.4058E+13	8.4907E+11
Aerosols (kg)	4.2387E-12	4.2815E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9952E+17
Elemental I (atoms)	0.0000E+00	3.6806E+12
Organic I (atoms)	0.0000E+00	1.5724E+13
Aerosols (kg)	0.0000E+00	7.9288E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.2903E+18	0.0000E+00
Elemental I (atoms)	2.3427E+12	0.0000E+00
Organic I (atoms)	8.7636E+12	0.0000E+00
Aerosols (kg)	1.5612E-12	0.0000E+00

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EAB Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4371E-01	2.1665E+00	2.1003E-01
Accumulated dose (rem)		2.2280E-01	2.7043E+00	3.0575E-01

LPZ Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.5432E-03	5.4915E-02	7.2240E-03
Accumulated dose (rem)		1.3162E-02	8.2719E-02	1.5703E-02

CR Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2148E-02	3.1993E-01	2.2179E-02
Accumulated dose (rem)		2.4572E-02	4.7972E-01	4.4504E-02

CR Compartment Nuclide Inventory:

Time (h) =	96.0000	Ci	kg	Atoms	Decay
Kr-85m		1.7475E-07	2.1234E-17	1.5044E+08	6.3738E+13
Kr-85		2.4920E-02	6.3575E-08	4.5042E+17	2.3586E+14
Kr-88		9.0227E-11	7.1956E-21	4.9242E+04	4.9665E+13
Rb-86		1.8096E-11	2.2240E-19	1.5573E+06	5.4009E+05
Rb-88		2.6241E-10	2.1738E-21	1.4876E+04	3.8610E+13
Sr-89		9.4707E-10	3.2599E-17	2.2058E+08	1.9880E+07
Sr-90		1.0700E-10	7.8445E-16	5.2489E+09	2.1749E+06
Y-90		6.9202E-11	1.2719E-19	8.5109E+05	6.8854E+05
Y-91		1.4921E-11	6.0843E-19	4.0264E+06	3.0096E+05
Zr-95		1.4176E-11	6.5989E-19	4.1831E+06	2.9555E+05
Nb-95		1.4581E-11	3.7289E-19	2.3638E+06	2.9653E+05
Mo-99		6.8183E-11	1.4216E-19	8.6477E+05	2.5977E+06
Tc-99m		6.9903E-11	1.3294E-20	8.0867E+04	2.4650E+06
Ru-103		1.5076E-10	4.6712E-18	2.7311E+07	3.1942E+06
Ru-106		6.6754E-11	1.9953E-17	1.1336E+08	1.3626E+06
Rh-105		1.8862E-11	2.2347E-20	1.2817E+05	1.2833E+06
Sb-127		9.0591E-11	3.3923E-19	1.6086E+06	2.8644E+06
Te-127		1.1759E-10	4.4556E-20	2.1128E+05	3.1586E+06
Te-127m		3.1293E-11	3.3175E-18	1.5731E+07	6.3891E+05
Te-129		8.2753E-11	3.9515E-21	1.8447E+04	1.9480E+06
Te-129m		9.5701E-11	3.1767E-18	1.4830E+07	2.0414E+06
Te-131m		4.2569E-11	5.3384E-20	2.4541E+05	3.7319E+06
Te-132		1.1985E-09	3.9478E-18	1.8011E+07	4.1216E+07
I-131		5.5542E-05	4.4801E-13	2.0595E+12	6.6372E+11
I-132		2.8455E-06	2.7567E-16	1.2577E+09	5.8115E+10
I-133		6.6109E-06	5.8359E-15	2.6424E+10	3.9576E+11
I-135		6.5026E-09	1.8516E-18	8.2597E+06	6.9581E+10
Xe-133		1.8306E+00	9.7797E-09	4.4282E+16	2.1707E+16
Xe-133m		2.7387E-02	6.2207E-11	2.8167E+14	4.5896E+14
Xe-135		1.0355E-03	4.0550E-13	1.8089E+12	9.1298E+14
Xe-135m		4.0199E-09	4.4159E-20	1.9698E+05	1.9770E+11
Cs-134		2.0918E-09	1.6167E-15	7.2658E+09	5.6936E+07
Cs-136		5.1838E-10	7.0730E-18	3.1319E+07	1.6111E+07
Cs-137		1.6295E-09	1.8734E-14	8.2350E+10	4.4259E+07
Ba-140		1.1839E-09	1.6171E-17	6.9560E+07	2.7392E+07
La-140		1.0414E-09	1.8737E-18	8.0596E+06	1.2089E+07
Ce-141		3.2004E-11	1.1232E-18	4.7972E+06	6.8390E+05
Ce-143		4.5110E-12	6.7928E-21	2.8606E+04	3.4246E+05
Ce-144		2.7578E-11	8.6466E-18	3.6161E+07	5.6368E+05
Pr-143		1.3359E-11	1.9839E-19	8.3546E+05	2.7962E+05
Nd-147		4.2026E-12	5.1948E-20	2.1282E+05	9.9314E+04
Np-239		1.2210E-10	5.2629E-19	1.3261E+06	5.2019E+06
Pu-238		8.6567E-14	5.0566E-18	1.2795E+07	1.7588E+03
Pu-239		8.7989E-15	1.4156E-16	3.5669E+08	1.7808E+02
Pu-240		1.5415E-14	6.7681E-18	1.6983E+07	3.1327E+02
Pu-241		3.4230E-12	3.4613E-17	8.6492E+07	6.9583E+04
Am-241		1.9964E-15	5.8274E-19	1.4562E+06	3.9850E+01
Cm-242		5.2327E-13	1.5808E-19	3.9338E+05	1.0741E+04
Cm-244		3.5178E-14	4.2977E-19	1.0607E+06	7.1506E+02

CR Transport Group Inventory:

Time (h) =	96.0000	Atmosphere	Sump
Noble gases (atoms)		4.9499E+17	0.0000E+00

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Elemental I (atoms)	3.0293E+10	0.0000E+00
Organic I (atoms)	2.0566E+12	0.0000E+00
Aerosols (kg)	2.1492E-14	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.2517E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.3215E-15
Total I (Ci)		6.5005E-05

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.6674E+12
Organic I (atoms)	0.0000E+00	1.9073E+13
Aerosols (kg)	0.0000E+00	9.3506E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	8.0524E+18
Elemental I (atoms)	2.9491E+13	2.9789E+11
Organic I (atoms)	3.4420E+14	3.4768E+12
Aerosols (kg)	8.0177E-12	8.0987E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	1.4912E+18
Elemental I (atoms)	0.0000E+00	5.5165E+12
Organic I (atoms)	0.0000E+00	6.4385E+13
Aerosols (kg)	0.0000E+00	1.4998E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	9.0255E+18	0.0000E+00
Elemental I (atoms)	3.9923E+12	0.0000E+00
Organic I (atoms)	4.5668E+13	0.0000E+00
Aerosols (kg)	2.2388E-12	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 720.0000			
Delta dose (rem)	3.1696E-01	7.3527E+00	5.4099E-01
Accumulated dose (rem)	5.3977E-01	1.0057E+01	8.4674E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 720.0000			
Delta dose (rem)	3.5425E-03	5.4002E-02	5.1879E-03
Accumulated dose (rem)	1.6704E-02	1.3672E-01	2.0891E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 720.0000			
Delta dose (rem)	1.3294E-02	5.4730E-01	2.9967E-02
Accumulated dose (rem)	3.7867E-02	1.0270E+00	7.4471E-02

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 720.0000				
Kr-85	1.7066E-02	4.3540E-08	3.0848E+17	1.8188E+15
Rb-86	3.2980E-12	4.0533E-20	2.8383E+05	1.0814E+06
Sr-89	3.6592E-10	1.2595E-17	8.5224E+07	6.1471E+07
Sr-90	5.8973E-11	4.3233E-16	2.8928E+09	7.7131E+06
Y-90	5.9283E-11	1.0896E-19	7.2910E+05	5.8993E+06
Y-91	6.0432E-12	2.4642E-19	1.6308E+06	9.6973E+05
Zr-95	5.9050E-12	2.7487E-19	1.7424E+06	9.3958E+05
Nb-95	7.4981E-12	1.9175E-19	1.2155E+06	1.0322E+06
Ru-103	5.2603E-11	1.6299E-18	9.5296E+06	9.5222E+06
Ru-106	3.5092E-11	1.0489E-17	5.9591E+07	4.7409E+06
Te-127	1.5662E-11	5.9347E-21	2.8141E+04	5.6474E+06
Te-127m	1.4919E-11	1.5817E-18	7.5000E+06	2.1599E+06

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Te-129m	3.0900E-11	1.0257E-18	4.7884E+06	5.9247E+06
Te-132	2.6215E-12	8.6349E-21	3.9394E+04	5.3554E+07
I-131	4.0045E-06	3.2301E-14	1.4849E+11	2.1008E+12
I-132	7.4006E-09	7.1696E-19	3.2709E+06	9.6686E+10
Xe-133	4.0991E-02	2.1899E-10	9.9158E+14	5.6258E+16
Xe-133m	5.8262E-06	1.3234E-14	5.9921E+10	6.8940E+14
Cs-134	9.7777E-10	7.5572E-16	3.3963E+09	1.5088E+08
Cs-136	6.2705E-11	8.5557E-19	3.7885E+06	2.9396E+07
Cs-137	7.7887E-10	8.9544E-15	3.9361E+10	1.1822E+08
Ba-140	1.5883E-10	2.1696E-18	9.3326E+06	6.1259E+07
La-140	1.8450E-10	3.3194E-19	1.4279E+06	4.9285E+07
Ce-141	1.0148E-11	3.5617E-19	1.5212E+06	1.9725E+06
Ce-144	1.4290E-11	4.4803E-18	1.8737E+07	1.9499E+06
Pr-143	2.0262E-12	3.0090E-20	1.2672E+05	6.8654E+05
Nd-147	4.4945E-13	5.5557E-21	2.2760E+04	2.1021E+05
Pu-238	4.7917E-14	2.7989E-18	7.0822E+06	6.2487E+03
Pu-239	4.8756E-15	7.8440E-17	1.9765E+08	6.3530E+02
Pu-240	8.5110E-15	3.7368E-18	9.3764E+06	1.1118E+03
Pu-241	1.8835E-12	1.9046E-17	4.7592E+07	2.4661E+05
Am-241	1.3169E-15	3.8442E-19	9.6058E+05	1.5288E+02
Cm-242	2.5864E-13	7.8135E-20	1.9444E+05	3.6465E+04
Cm-244	1.9367E-14	2.3661E-19	5.8397E+05	2.5348E+03

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	3.0947E+17	0.0000E+00
Elemental I (atoms)	6.9043E+08	0.0000E+00
Organic I (atoms)	1.4779E+11	0.0000E+00
Aerosols (kg)	1.0287E-14	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.7118E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.7120E-16
Total I (Ci)		4.0119E-06

Time (h) = 720.0000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.9191E+12
Organic I (atoms)	0.0000E+00	6.1099E+13
Aerosols (kg)	0.0000E+00	1.7089E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Time (h) = 720.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4950E+19
Elemental I (atoms)	3.3720E+13	3.4061E+11
Organic I (atoms)	1.0656E+15	1.0764E+13
Aerosols (kg)	2.1284E-11	2.1499E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Time (h) = 720.0000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0176E+19
Elemental I (atoms)	0.0000E+00	6.3076E+12
Organic I (atoms)	0.0000E+00	1.9933E+14
Aerosols (kg)	0.0000E+00	3.9813E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

Time (h) = 720.0000	Pathway Filtered	Transported
Noble gases (atoms)	6.4757E+19	0.0000E+00
Elemental I (atoms)	4.5950E+12	0.0000E+00
Organic I (atoms)	1.4629E+14	0.0000E+00
Aerosols (kg)	4.0917E-12	0.0000E+00

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I-131 Summary
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DW

WW

Dummy

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Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4751E-02
0.017	1.8470E+05	0.0000E+00	3.1395E+01
0.083	9.2044E+05	0.0000E+00	7.8060E+02
0.333	3.6817E+06	0.0000E+00	1.2120E+03
0.500	6.8012E+05	0.0000E+00	1.3959E+03
0.750	9.4093E+05	0.0000E+00	1.5615E+03
1.000	9.4889E+05	0.0000E+00	1.7377E+03
1.400	9.5870E+05	0.0000E+00	2.0221E+03
1.700	9.6603E+05	0.0000E+00	2.2371E+03
2.000	9.7334E+05	0.0000E+00	2.4536E+03
2.250	5.9162E+04	4.0983E+04	2.5052E+03
2.400	6.0403E+04	3.7668E+04	2.5135E+03
2.700	6.0349E+04	3.7597E+04	2.5299E+03
3.000	6.0272E+04	3.7549E+04	2.5463E+03
3.300	6.0196E+04	3.7501E+04	2.5627E+03
3.600	6.0119E+04	3.7454E+04	2.5790E+03
3.900	6.0043E+04	3.7406E+04	2.5953E+03
4.000	6.0017E+04	3.7390E+04	2.6007E+03
4.300	5.9941E+04	3.7343E+04	2.6169E+03
4.600	5.9865E+04	3.7295E+04	2.6331E+03
4.900	5.9789E+04	3.7248E+04	2.6493E+03
5.200	5.9713E+04	3.7200E+04	2.6654E+03
5.500	5.9637E+04	3.7153E+04	2.6814E+03
5.800	5.9561E+04	3.7106E+04	2.6974E+03
6.100	5.9485E+04	3.7058E+04	2.7134E+03
6.400	5.9409E+04	3.7011E+04	2.7293E+03
6.700	5.9334E+04	3.6964E+04	2.7452E+03
7.000	5.9258E+04	3.6917E+04	2.7611E+03
7.300	5.9183E+04	3.6870E+04	2.7769E+03
7.600	5.9107E+04	3.6823E+04	2.7927E+03
7.900	5.9032E+04	3.6776E+04	2.8084E+03
8.000	5.9007E+04	3.6761E+04	2.8136E+03
8.300	5.8932E+04	3.6714E+04	2.8293E+03
8.600	5.8857E+04	3.6667E+04	2.8449E+03
8.900	5.8782E+04	3.6621E+04	2.8605E+03
9.200	5.8707E+04	3.6574E+04	2.8761E+03
9.500	5.8632E+04	3.6527E+04	2.8916E+03
9.800	5.8558E+04	3.6481E+04	2.9071E+03
10.100	5.8483E+04	3.6434E+04	2.9225E+03
10.400	5.8409E+04	3.6388E+04	2.9379E+03
16.000	5.7035E+04	3.5532E+04	3.2179E+03
24.000	5.5126E+04	3.4343E+04	3.5946E+03
96.000	4.1555E+04	2.5888E+04	4.3816E+03
720.000	3.5475E+03	2.2101E+03	1.7755E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSL Volume 1 I-131 (Curies)
0.000	1.6960E-20	1.1766E-23	1.1306E-04
0.017	4.1567E-13	2.8825E-16	1.0212E-01
0.083	1.2761E-09	2.3233E-13	2.5358E+00
0.333	1.2815E-06	2.2964E-10	4.0378E+01
0.500	9.4304E-06	1.6726E-09	5.6146E+01
0.750	5.9818E-05	1.0420E-08	6.9913E+01
1.000	2.0008E-04	3.4196E-08	8.4412E+01
1.400	7.6956E-04	1.2766E-07	1.0738E+02
1.700	1.6481E-03	2.6757E-07	1.2442E+02
2.000	3.1089E-03	4.9433E-07	1.4130E+02
2.250	4.9247E-03	6.6258E-07	1.4260E+02
2.400	6.3358E-03	7.9421E-07	1.4193E+02
2.700	1.0016E-02	1.1366E-06	1.4059E+02
3.000	1.5029E-02	1.5971E-06	1.3928E+02
3.300	2.1594E-02	2.1887E-06	1.3798E+02
3.600	2.9920E-02	2.9222E-06	1.3671E+02
3.900	4.0212E-02	3.8063E-06	1.3546E+02
4.000	4.4114E-02	4.1357E-06	1.3505E+02
4.300	5.7328E-02	5.2311E-06	1.3383E+02
4.600	7.2951E-02	6.4908E-06	1.3262E+02
4.900	9.1156E-02	7.9180E-06	1.3144E+02
5.200	1.1211E-01	9.5149E-06	1.3028E+02
5.500	1.3598E-01	1.1282E-05	1.2913E+02
5.800	1.6291E-01	1.3220E-05	1.2801E+02
6.100	1.9304E-01	1.5327E-05	1.2690E+02
6.400	2.2651E-01	1.7601E-05	1.2581E+02

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6.700	2.6345E-01	2.0041E-05	1.2474E+02
7.000	3.0398E-01	2.2642E-05	1.2369E+02
7.300	3.4821E-01	2.5402E-05	1.2265E+02
7.600	3.9624E-01	2.8315E-05	1.2163E+02
7.900	4.4818E-01	3.1378E-05	1.2063E+02
8.000	4.6637E-01	3.2431E-05	1.2030E+02
8.300	5.2366E-01	3.1557E-05	1.1932E+02
8.600	5.8505E-01	3.0948E-05	1.1836E+02
8.900	6.5062E-01	3.0581E-05	1.1741E+02
9.200	7.2045E-01	3.0434E-05	1.1647E+02
9.500	7.9459E-01	3.0486E-05	1.1556E+02
9.800	8.7311E-01	3.0720E-05	1.1465E+02
10.100	9.5606E-01	3.1120E-05	1.1376E+02
10.400	1.0435E+00	3.1670E-05	1.1289E+02
16.000	3.5227E+00	5.7279E-05	9.8902E+01
24.000	9.7364E+00	1.0417E-04	8.4826E+01
96.000	5.4631E+01	5.5542E-05	5.1422E+01
720.000	2.1699E+02	4.0045E-06	4.2231E+00

Time (hr)	MSL Volume 2 I-131 (Curies)	MSL Volume 3 I-131 (Curies)
0.000	1.1796E-09	5.0579E-14
0.017	3.1989E-05	4.1229E-08
0.083	3.9437E-03	2.5346E-05
0.333	2.4674E-01	6.3357E-03
0.500	6.9820E-01	2.9852E-02
0.750	1.4976E+00	1.1174E-01
1.000	2.4320E+00	2.5716E-01
1.400	4.1836E+00	6.4173E-01
1.700	5.6819E+00	1.0670E+00
2.000	7.3198E+00	1.6199E+00
2.250	8.7029E+00	2.1819E+00
2.400	9.4792E+00	2.5603E+00
2.700	1.0910E+01	3.3985E+00
3.000	1.2192E+01	4.3303E+00
3.300	1.3339E+01	5.3393E+00
3.600	1.4362E+01	6.4111E+00
3.900	1.5273E+01	7.5327E+00
4.000	1.5554E+01	7.9157E+00
4.300	1.6332E+01	9.0863E+00
4.600	1.7021E+01	1.0282E+01
4.900	1.7629E+01	1.1494E+01
5.200	1.8164E+01	1.2715E+01
5.500	1.8632E+01	1.3939E+01
5.800	1.9040E+01	1.5159E+01
6.100	1.9394E+01	1.6370E+01
6.400	1.9698E+01	1.7568E+01
6.700	1.9958E+01	1.8749E+01
7.000	2.0177E+01	1.9911E+01
7.300	2.0360E+01	2.1049E+01
7.600	2.0510E+01	2.2162E+01
7.900	2.0630E+01	2.3248E+01
8.000	2.0664E+01	2.3603E+01
8.300	2.0749E+01	2.4651E+01
8.600	2.0811E+01	2.5667E+01
8.900	2.0852E+01	2.6652E+01
9.200	2.0874E+01	2.7606E+01
9.500	2.0879E+01	2.8526E+01
9.800	2.0869E+01	2.9414E+01
10.100	2.0845E+01	3.0269E+01
10.400	2.0810E+01	3.1091E+01
16.000	1.9065E+01	4.0934E+01
24.000	1.6268E+01	4.3210E+01
96.000	9.4847E+00	2.6143E+01
720.000	7.7246E-01	2.0523E+00

Cumulative Dose Summary
#####

Time	EAB		LPZ		CR	
(hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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```

0.017 2.6426E-14 2.7422E-15 3.5975E-15 3.7330E-16 2.0300E-16 7.3915E-18
0.083 8.1065E-11 8.0169E-12 1.1036E-11 1.0914E-12 5.9546E-13 3.3986E-14
0.333 8.1175E-08 6.9546E-09 1.1051E-08 9.4676E-10 2.2859E-09 1.2115E-10
0.500 5.9624E-07 4.8127E-08 8.1169E-08 6.5518E-09 2.5289E-08 1.3006E-09
0.750 3.7720E-06 3.1014E-07 5.1350E-07 4.2221E-08 2.5263E-07 1.3078E-08
1.000 1.2585E-05 1.1830E-06 1.7132E-06 1.6105E-07 1.1640E-06 6.4640E-08
1.400 4.8245E-05 6.2910E-06 6.5678E-06 8.5642E-07 6.3825E-06 4.4102E-07
1.700 1.0304E-04 1.6894E-05 1.4027E-05 2.2999E-06 1.6469E-05 1.3869E-06
2.000 1.9382E-04 3.8562E-05 2.6385E-05 5.2496E-06 3.6014E-05 3.6600E-06
2.250 3.0630E-04 6.9595E-05 4.1698E-05 9.4743E-06 6.0983E-05 7.1004E-06
2.400 3.9351E-04 9.5680E-05 5.3571E-05 1.3025E-05 7.9917E-05 9.9673E-06
2.700 6.2044E-04 1.6869E-04 8.4463E-05 2.2965E-05 1.2966E-04 1.8232E-05
3.000 9.2850E-04 2.7441E-04 1.2640E-04 3.7357E-05 2.0002E-04 3.1298E-05
3.300 1.3306E-03 4.1821E-04 1.8114E-04 5.6933E-05 2.9731E-04 5.0985E-05
3.600 1.8390E-03 6.0465E-04 2.5035E-04 8.2314E-05 4.2843E-04 7.9303E-05
3.900 2.4654E-03 8.3749E-04 3.3563E-04 1.1401E-04 6.0070E-04 1.1835E-04
4.000 2.7024E-03 9.2595E-04 3.6789E-04 1.2605E-04 6.6859E-04 1.3412E-04
4.300 3.5035E-03 1.2251E-03 4.7694E-04 1.6678E-04 9.0770E-04 1.9074E-04
4.600 4.4475E-03 1.5765E-03 6.0546E-04 2.1461E-04 1.2062E-03 2.6293E-04
4.900 5.5445E-03 1.9814E-03 7.5480E-04 2.6973E-04 1.5722E-03 3.5259E-04
5.200 6.8035E-03 2.4406E-03 9.2619E-04 3.3225E-04 2.0139E-03 4.6145E-04
5.500 8.2332E-03 2.9544E-03 1.1208E-03 4.0219E-04 2.5395E-03 5.9107E-04
5.800 9.8417E-03 3.5226E-03 1.3398E-03 4.7955E-04 3.1570E-03 7.4282E-04
6.100 1.1637E-02 4.1448E-03 1.5841E-03 5.6424E-04 3.8745E-03 9.1784E-04
6.400 1.3625E-02 4.8200E-03 1.8548E-03 6.5617E-04 4.7000E-03 1.1171E-03
6.700 1.5813E-02 5.5472E-03 2.1527E-03 7.5516E-04 5.6410E-03 1.3412E-03
7.000 1.8208E-02 6.3251E-03 2.4787E-03 8.6107E-04 6.7052E-03 1.5908E-03
7.300 2.0814E-02 7.1523E-03 2.8335E-03 9.7367E-04 7.8999E-03 1.8661E-03
7.600 2.3637E-02 8.0271E-03 3.2178E-03 1.0928E-03 9.2321E-03 2.1674E-03
7.900 2.6682E-02 8.9480E-03 3.6323E-03 1.2181E-03 1.0709E-02 2.4947E-03
8.000 2.7747E-02 9.2649E-03 3.7773E-03 1.2613E-03 1.1234E-02 2.6095E-03
8.300 3.1093E-02 1.0245E-02 3.9349E-03 1.3464E-03 1.2811E-02 2.9556E-03
8.600 3.4671E-02 1.1266E-02 4.1035E-03 1.4350E-03 1.4348E-02 3.2922E-03
8.900 3.8483E-02 1.2328E-02 4.2831E-03 1.5270E-03 1.5857E-02 3.6175E-03
9.200 4.2533E-02 1.3429E-02 4.4738E-03 1.6222E-03 1.7349E-02 3.9322E-03
9.500 4.6823E-02 1.4566E-02 4.6759E-03 1.7205E-03 1.8836E-02 4.2377E-03
9.800 5.1355E-02 1.5739E-02 4.8894E-03 1.8216E-03 2.0325E-02 4.5357E-03
10.100 5.6131E-02 1.6945E-02 5.1144E-03 1.9255E-03 2.1827E-02 4.8279E-03
10.400 6.1153E-02 1.8184E-02 5.3510E-03 2.0320E-03 2.3347E-02 5.1156E-03
16.000 2.0090E-01 4.6407E-02 1.1934E-02 4.4246E-03 6.1280E-02 1.1307E-02
24.000 5.3780E-01 9.5723E-02 2.7804E-02 8.4790E-03 1.5979E-01 2.2325E-02
96.000 2.7043E+00 3.0575E-01 8.2719E-02 1.5703E-02 4.7972E-01 4.4504E-02
720.000 1.0057E+01 8.4674E-01 1.3672E-01 2.0891E-02 1.0270E+00 7.4471E-02

```

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
16.0	9.7289E-03	8.4225E-02	1.2329E-02

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NMP2 MSL D.out

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:28:47
#####
```

```
#####
File information
#####
```

```
Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2 MSL D.psf
Inventory file   = c:\radtrad3.03\nmp2\nmp2.nif
Release file     = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      #####      # #      # #      # #      #####      #
```

Radtrad 3.03 4/15/2001
 NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
 Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory

Nuclide Inventory File:
 c:\radtrad3.03\nmp2\nmp2.nif

Plant Power Level:
 4.0670E+03

Compartments:

8

Compartment 1:

DW

3

3.0620E+05

1

0

0

0

0

Compartment 2:

WW

3

1.9080E+05

0

0

0

0

0

Compartment 3:

Dummy

3

1.0000E+02

0

0

0

0

0

Compartment 4:

Environment

2

0.0000E+00

0

0

0

0

0

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Compartment 5:

CR

1

3.8100E+05

0

0

1

0

0

Compartment 6:

MSL Volume 1

3

3.3181E+02

0

0

0

0

0

Compartment 7:

MSL Volume 2

3

5.9270E+01

0

0

0

0

0

Compartment 8:

MSL Volume 3

3

4.2776E+02

0

0

0

0

0

Pathways:

14

Pathway 1:

DW to WW

1

2

4

Pathway 2:

WW to DW

2

1

4

Pathway 3:

DW Leakage to RB (Released to Dummy)

1

3

2

Pathway 4:

WW Leakage to RB (Released to Dummy)

2

3

2

Pathway 5:

DW Bypass Pathway 5 to Environment (Released to Dummy)

1

3

2

Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2

3

2

Pathway 7:

DW to MSL Volume 1

1

6

2

Pathway 8:

CALCULATION NO. H21C-106

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MSL Volume 1 to MSL Volume 2

6
7
2

Pathway 9:

MSL Volume 2 to MSL Volume 3

7
8
2

Pathway 10:

MSL Volume 3 to Environment

8
4
2

Pathway 11:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 12:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 13:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 14:

DW to Dummy MSL flows all other steam lines

1
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

8

Compartment 1:

0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00

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7.2000E+02 0.0000E+00

1

0.0000E+00

0

0

0

0

0

Compartment 2:

0

1

0

0

0

0

0

0

0

Compartment 3:

0

1

0

0

0

0

0

0

0

Compartment 4:

0

1

0

0

0

0

0

0

0

Compartment 5:

1

1

0

0

0

0

1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0

0

Compartment 6:

0

1

0

0

0

0

0

0

0

Compartment 7:

0

1

0

0

0

0

0

0

0

Compartment 8:

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0
1
0
0
0
0
0
0
0
0

Pathways:

14

Pathway 1:

0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00 0.0000E+00
2.0000E+00 8.9710E+04
7.2000E+02 0.0000E+00
0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00 0.0000E+00
2.0000E+00 1.4400E+05
7.2000E+02 0.0000E+00
0

Pathway 3:

0
0
0
0
0
1
4
0.0000E+00 1.0280E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 2.7500E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.3800E+00 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Pathway 4:

0
0
0
0
0
1
4
0.0000E+00 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 7.3000E-01 0.0000E+00 0.0000E+00 0.0000E+00

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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5

0.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5

0.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 7:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 8:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0

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```

0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.6900E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00  8.3300E-01  9.9980E+01  5.0000E+01  0.0000E+00
2.4000E+01  4.1700E-01  9.9980E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0

```

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0
0
0
Pathway 13:
0
0
0
0
0
1
3
0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Pathway 14:
0
0
0
0
0
1
3
0.0000E+00 1.0140E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 5.0700E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Dose Locations:

3
Location 1:
EAB
4
1
2
0.0000E+00 1.1900E-04
7.2000E+02 0.0000E+00
1
2
0.0000E+00 3.5000E-04
7.2000E+02 0.0000E+00
0

Location 2:

LPZ
4
1
5
0.0000E+00 1.6200E-05
8.0000E+00 1.0900E-05
2.4000E+01 4.5900E-06
9.6000E+01 1.3300E-06
7.2000E+02 0.0000E+00
1
4
0.0000E+00 3.5000E-04
8.0000E+00 1.8000E-04
2.4000E+01 2.3000E-04
7.2000E+02 0.0000E+00
0

Location 3:

CR
5
0
1
2

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```
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o672
1
1
1
0
0
End of Scenario File
```

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 788

 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:28:47
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 8

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSL Volume 1

Exit Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Inlet Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 10: MSL Volume 3 to Environment

Inlet Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Exit Pathway Number 11: CR Filtered Intake (Pathway 9)

Exit Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 11: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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Name: MSL Volume 1
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSL Volume 1
Exit Pathway Number 8: MSL Volume 1 to MSL Volume 2

Compartment number 7
Name: MSL Volume 2
Compartment volume = 5.9270E+01 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSL Volume 1 to MSL Volume 2
Exit Pathway Number 9: MSL Volume 2 to MSL Volume 3

Compartment number 8
Name: MSL Volume 3
Compartment volume = 4.2776E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 9: MSL Volume 2 to MSL Volume 3
Exit Pathway Number 10: MSL Volume 3 to Environment

Total number of pathways = 14

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 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:28:47
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSL Volume 1

Compartment number 7: MSL Volume 2

Compartment number 8: MSL Volume 3

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSL Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSL Volume 1 to MSL Volume 2

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSL Volume 2 to MSL Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: MSL Volume 3 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.3300E-01	9.9980E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9980E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 12: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: DW to Dummy MSL flows all other steam lines

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0140E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.0700E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 14:28:47
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Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2925E-15	3.1908E-14	3.3045E-15
Accumulated dose (rem)		2.2925E-15	3.1908E-14	3.3045E-15

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1209E-16	4.3438E-15	4.4986E-16
Accumulated dose (rem)		3.1209E-16	4.3438E-15	4.4986E-16

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1560E-18	2.4512E-16	8.9312E-18
Accumulated dose (rem)		1.1560E-18	2.4512E-16	8.9312E-18

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
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CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		4.8275E+03	0.0000E+00
Elemental I (atoms)		1.5905E+01	0.0000E+00
Organic I (atoms)		9.8384E-01	0.0000E+00
Aerosols (kg)		6.0215E-24	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.5569E-26
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.8358E-26
Total I (Ci)			3.0716E-15

		Deposition	Recirculating
Time (h) =	0.0167	Surfaces	Filter
Noble gases (atoms)		0.0000E+00	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 3.6223E+03
Elemental I (atoms)		0.0000E+00 1.1936E+01
Organic I (atoms)		0.0000E+00 7.3834E-01
Aerosols (kg)		0.0000E+00 4.5168E-24

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)		0.0000E+00 1.2074E+03

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Elemental I (atoms)	0.0000E+00	3.9788E+00
Organic I (atoms)	0.0000E+00	2.4611E-01
Aerosols (kg)	0.0000E+00	1.5056E-24

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0167	Filtered	Transported
Noble gases (atoms)	2.3522E+00	0.0000E+00
Elemental I (atoms)	7.7512E-03	0.0000E+00
Organic I (atoms)	4.7946E-04	0.0000E+00
Aerosols (kg)	2.9333E-27	0.0000E+00

EAB Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5533E-12	9.7810E-11	9.6543E-12
Accumulated dose (rem)	6.5556E-12	9.7842E-11	9.6576E-12

LPZ Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.9214E-13	1.3315E-11	1.3143E-12
Accumulated dose (rem)	8.9245E-13	1.3320E-11	1.3147E-12

CR Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7972E-14	7.1850E-13	4.0977E-14
Accumulated dose (rem)	1.7973E-14	7.1874E-13	4.0986E-14

CR Compartment Nuclide Inventory:

Time (h) = 0.0833	Ci	kg	Atoms	Decay
Kr-85m	2.1741E-11	2.6419E-21	1.8717E+04	5.4311E+01
Kr-85	1.1133E-12	2.8402E-18	2.0122E+07	2.7751E+00
Kr-87	4.2461E-11	1.4990E-21	1.0376E+04	1.0663E+02
Kr-88	5.9156E-11	4.7177E-21	3.2285E+04	1.4795E+02
I-131	2.8040E-13	2.2617E-21	1.0397E+04	7.0124E-01
Xe-133	1.3618E-10	7.2755E-19	3.2943E+06	3.3949E+02
Xe-133m	4.1765E-12	9.4866E-21	4.2954E+04	1.0412E+01
Xe-135	5.7576E-11	2.2546E-20	1.0057E+05	1.4342E+02
Cs-137	3.8639E-16	4.4422E-21	1.9527E+04	9.6628E-04

CR Transport Group Inventory:

Time (h) = 0.0833	Atmosphere	Sump
Noble gases (atoms)	2.3630E+07	0.0000E+00
Elemental I (atoms)	1.2797E+04	0.0000E+00
Organic I (atoms)	7.9159E+02	0.0000E+00
Aerosols (kg)	4.8720E-21	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.6678E-23
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.6883E-23
Total I (Ci)		2.4293E-12

	Deposition	Recirculating
Time (h) = 0.0833	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.8846E+01
Organic I (atoms)	0.0000E+00	1.1657E+00
Aerosols (kg)	0.0000E+00	7.1612E-24

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0008E+07
Elemental I (atoms)	6.5181E+04	6.7033E+02
Organic I (atoms)	4.0318E+03	4.1464E+01
Aerosols (kg)	2.4696E-20	2.5398E-22

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	3.7058E+06
Elemental I (atoms)	0.0000E+00	1.2197E+04
Organic I (atoms)	0.0000E+00	7.5443E+02
Aerosols (kg)	0.0000E+00	4.6211E-21

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	8.2954E+04	0.0000E+00
Elemental I (atoms)	4.5132E+01	0.0000E+00
Organic I (atoms)	2.7916E+00	0.0000E+00
Aerosols (kg)	1.7149E-23	0.0000E+00

EAB Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2628E-09	9.7722E-08	8.3574E-09
Accumulated dose (rem)	5.2693E-09	9.7820E-08	8.3670E-09

LPZ Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1644E-10	1.3303E-08	1.1377E-09
Accumulated dose (rem)	7.1734E-10	1.3317E-08	1.1390E-09

CR Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5521E-11	2.7548E-09	1.4589E-10
Accumulated dose (rem)	5.5539E-11	2.7555E-09	1.4593E-10

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	8.5777E-09	4.2256E-19	3.0659E+06	7.0805E+04
Kr-85m	2.0771E-08	2.5240E-18	1.7882E+07	1.6962E+05
Kr-85	1.1055E-09	2.8204E-15	1.9982E+10	8.9600E+03
Kr-87	3.6794E-08	1.2990E-18	8.9915E+06	3.0633E+05
Kr-88	5.5268E-08	4.4076E-18	3.0163E+07	4.5332E+05
Rb-88	7.1364E-09	5.9117E-20	4.0456E+05	4.2358E+04
I-131	2.7672E-10	2.2320E-18	1.0261E+07	2.2448E+03
I-132	3.7040E-10	3.5884E-20	1.6371E+05	3.0424E+03
I-133	5.6810E-10	5.0150E-19	2.2708E+06	4.6154E+03
I-134	5.0632E-10	1.8980E-20	8.5298E+04	4.2708E+03
I-135	5.2423E-10	1.4927E-19	6.6589E+05	4.2739E+03
Xe-133	1.3521E-07	7.2233E-16	3.2706E+09	1.0959E+06
Xe-133m	4.1446E-09	9.4140E-18	4.2626E+07	3.3597E+04
Xe-135	5.8216E-08	2.2797E-17	1.0169E+08	4.7044E+05
Xe-135m	1.9977E-08	2.1945E-19	9.7891E+05	1.7054E+05
Xe-138	4.5716E-08	4.7644E-19	2.0791E+06	4.3086E+05
Cs-134	4.9159E-13	3.7995E-19	1.7075E+06	3.9873E+00
Cs-137	3.8165E-13	4.3877E-18	1.9287E+07	3.0956E+00

CR Transport Group Inventory:

Time (h) = 0.3333	Atmosphere	Sump
Noble gases (atoms)	2.3460E+10	0.0000E+00
Elemental I (atoms)	1.2570E+07	0.0000E+00
Organic I (atoms)	7.7755E+05	0.0000E+00
Aerosols (kg)	4.8504E-18	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.6071E-20
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.5805E-20
Total I (Ci)		2.2458E-09

	Deposition	Recirculating
Time (h) = 0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.4085E+04
Organic I (atoms)	0.0000E+00	4.5826E+03
Aerosols (kg)	0.0000E+00	2.8486E-20

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Pathway

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Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0076E+10	
Elemental I (atoms)	6.5121E+07	6.5780E+05	
Organic I (atoms)	4.0281E+06	4.0689E+04	
Aerosols (kg)	2.4788E-17	2.5039E-19	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7178E+09	
Elemental I (atoms)	0.0000E+00	1.2181E+07	
Organic I (atoms)	0.0000E+00	7.5348E+05	
Aerosols (kg)	0.0000E+00	4.6367E-18	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	3.3041E+08	0.0000E+00	
Elemental I (atoms)	1.7738E+05	0.0000E+00	
Organic I (atoms)	1.0972E+04	0.0000E+00	
Aerosols (kg)	6.8205E-20	0.0000E+00	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9866E-08	6.1991E-07	4.9481E-08	
Accumulated dose (rem)	3.5136E-08	7.1773E-07	5.7848E-08	

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0659E-09	8.4391E-08	6.7360E-09	
Accumulated dose (rem)	4.7832E-09	9.7707E-08	7.8751E-09	

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.9778E-10	2.7700E-08	1.4196E-09	
Accumulated dose (rem)	5.5332E-10	3.0456E-08	1.5655E-09	

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m	5.9958E-08	2.9537E-18	2.1431E+07	7.3160E+05	
Kr-85m	1.5056E-07	1.8295E-17	1.2962E+08	1.8078E+06	
Kr-85	8.2228E-09	2.0978E-14	1.4863E+11	9.7625E+04	
Kr-87	2.4990E-07	8.8225E-18	6.1069E+07	3.0887E+06	
Kr-88	3.9469E-07	3.1476E-17	2.1540E+08	4.7704E+06	
Rb-88	7.0849E-08	5.8690E-19	4.0164E+06	6.5404E+05	
I-131	2.0132E-09	1.6239E-17	7.4652E+07	2.4213E+04	
I-132	2.5844E-09	2.5038E-19	1.1423E+06	3.1673E+04	
I-133	4.1127E-09	3.6306E-18	1.6439E+07	4.9571E+04	
I-134	3.2307E-09	1.2111E-19	5.4427E+05	4.1208E+04	
I-135	3.7501E-09	1.0678E-18	4.7635E+06	4.5438E+04	
Xe-133	1.0055E-06	5.3717E-15	2.4323E+10	1.1939E+07	
Xe-133m	3.0812E-08	6.9986E-17	3.1689E+08	3.6591E+05	
Xe-135	4.3754E-07	1.7133E-16	7.6429E+08	5.1742E+06	
Xe-135m	1.2965E-07	1.4242E-18	6.3533E+06	1.6517E+06	
Xe-138	2.0868E-07	2.1748E-18	9.4907E+06	3.1219E+06	
Cs-134	3.5745E-12	2.7627E-18	1.2416E+07	4.3009E+01	
Cs-136	1.0894E-12	1.4864E-20	6.5820E+04	1.3110E+01	
Cs-137	2.7751E-12	3.1905E-17	1.4024E+08	3.3391E+01	

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump	
Noble gases (atoms)	1.7447E+11	0.0000E+00		
Elemental I (atoms)	9.1081E+07	0.0000E+00		
Organic I (atoms)	5.7465E+06	0.0000E+00		
Aerosols (kg)	3.5425E-17	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.6185E-19		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3116E-19		
Total I (Ci)		1.5691E-08		

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	Deposition	Recirculating
Time (h) = 0.5000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	8.1895E+05
Organic I (atoms)	0.0000E+00	5.1003E+04
Aerosols (kg)	0.0000E+00	3.1708E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5036E+11
Elemental I (atoms)	4.7698E+08	4.8180E+06
Organic I (atoms)	3.0082E+07	3.0386E+05
Aerosols (kg)	1.8209E-16	1.8393E-18

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7844E+10
Elemental I (atoms)	0.0000E+00	8.9222E+07
Organic I (atoms)	0.0000E+00	5.6269E+06
Aerosols (kg)	0.0000E+00	3.4061E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.5000	Filtered	Transported
Noble gases (atoms)	3.6974E+09	0.0000E+00
Elemental I (atoms)	1.9608E+06	0.0000E+00
Organic I (atoms)	1.2212E+05	0.0000E+00
Aerosols (kg)	7.5919E-19	0.0000E+00

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8623E-05	2.2994E-04	4.5867E-05
Accumulated dose (rem)	3.8658E-05	2.3066E-04	4.5925E-05

LPZ Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2579E-06	3.1303E-05	6.2441E-06
Accumulated dose (rem)	5.2627E-06	3.1400E-05	6.2520E-06

CR Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3144E-06	4.2923E-05	4.3648E-06
Accumulated dose (rem)	2.3150E-06	4.2954E-05	4.3664E-06

CR Compartment Nuclide Inventory:

Time (h) = 2.0000	Ci	kg	Atoms	Decay
Kr-83m	6.8239E-05	3.3616E-15	2.4391E+10	3.4831E+09
Kr-85m	2.3761E-04	2.8873E-14	2.0456E+11	1.1418E+10
Kr-85	1.6368E-05	4.1757E-11	2.9584E+14	7.5472E+08
Kr-87	2.1960E-04	7.7529E-15	5.3665E+10	1.1780E+10
Kr-88	5.4477E-04	4.3445E-14	2.9731E+11	2.6825E+10
Rb-86	8.5947E-12	1.0563E-19	7.3966E+05	5.5989E+02
Rb-88	3.0010E-04	2.4860E-15	1.7012E+10	8.3633E+09
Sr-89	8.0182E-11	2.7599E-18	1.8675E+07	3.7939E+03
Sr-90	8.5874E-12	6.2954E-17	4.2124E+08	4.0627E+02
Sr-91	8.5508E-11	2.3588E-20	1.5610E+05	4.1233E+03
Sr-92	6.1421E-11	4.8866E-21	3.1986E+04	3.1102E+03
Y-91	1.0274E-12	4.1893E-20	2.7723E+05	4.8385E+01
Y-92	1.6037E-11	1.6667E-21	1.0910E+04	6.3151E+02
Zr-95	1.1867E-12	5.5239E-20	3.5017E+05	5.6149E+01
Nb-95	1.1714E-12	2.9958E-20	1.8991E+05	5.5418E+01
Mo-99	1.4681E-11	3.0611E-20	1.8620E+05	6.9647E+02
Tc-99m	1.3189E-11	2.5083E-21	1.5258E+04	6.2069E+02
Ru-103	1.2961E-11	4.0160E-19	2.3481E+06	6.1331E+02

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Ru-106	5.3955E-12	1.6127E-18	9.1623E+06	2.5526E+02
Rh-105	8.5793E-12	1.0164E-20	5.8297E+04	4.0594E+02
Sb-127	1.4712E-11	5.5091E-20	2.6123E+05	6.9739E+02
Sb-129	3.3479E-11	5.9534E-21	2.7793E+04	1.6522E+03
Te-127	1.4746E-11	5.5874E-21	2.6495E+04	6.9519E+02
Te-127m	2.5261E-12	2.6781E-19	1.2699E+06	1.1951E+02
Te-129m	8.2848E-12	2.7501E-19	1.2838E+06	3.9194E+02
Te-131m	2.9969E-11	3.7583E-20	1.7277E+05	1.4264E+03
Te-132	2.2123E-10	7.2871E-19	3.3245E+06	1.0490E+04
I-131	5.8804E-07	4.7432E-15	2.1805E+10	3.6404E+07
I-132	5.2121E-07	5.0494E-17	2.3036E+08	3.5131E+07
I-133	1.1487E-06	1.0141E-15	4.5916E+09	7.1854E+07
I-134	2.8975E-07	1.0862E-17	4.8814E+07	2.4182E+07
I-135	9.4087E-07	2.6791E-16	1.1951E+09	6.0348E+07
Xe-133	1.9893E-03	1.0627E-11	4.8120E+13	9.1841E+10
Xe-133m	6.0416E-05	1.3723E-13	6.2136E+11	2.7944E+09
Xe-135	8.2772E-04	3.2412E-13	1.4459E+12	3.8749E+10
Xe-135m	2.2725E-05	2.4963E-16	1.1136E+09	1.8733E+09
Xe-138	5.1345E-06	5.3511E-17	2.3352E+08	6.9009E+08
Cs-134	8.6207E-10	6.6630E-16	2.9944E+09	5.6128E+04
Cs-136	2.6189E-10	3.5733E-18	1.5823E+07	1.7065E+04
Cs-137	6.6932E-10	7.6950E-15	3.3825E+10	4.3578E+04
Ba-139	4.4383E-11	2.7134E-21	1.1756E+04	2.4073E+03
Ba-140	1.1754E-10	1.6056E-18	6.9065E+06	5.5642E+03
La-140	3.5942E-12	6.4663E-21	2.7815E+04	1.4501E+02
Ce-141	2.7864E-12	9.7790E-20	4.1766E+05	1.3184E+02
Ce-143	2.6067E-12	3.9253E-21	1.6531E+04	1.2400E+02
Ce-144	2.2339E-12	7.0040E-19	2.9291E+06	1.0569E+02
Pr-143	1.0682E-12	1.5863E-20	6.6802E+04	5.0488E+01
Nd-147	4.3176E-13	5.3371E-21	2.1864E+04	2.0440E+01
Np-239	3.1024E-11	1.3373E-19	3.3696E+05	1.4724E+03
Pu-238	6.9424E-15	4.0552E-19	1.0261E+06	3.2844E-01
Pu-239	7.0027E-16	1.1266E-17	2.8388E+07	3.3128E-02
Pu-240	1.2368E-15	5.4301E-19	1.3625E+06	5.8511E-02
Pu-241	2.7477E-13	2.7785E-18	6.9429E+06	1.2999E+01
Am-241	1.5549E-16	4.5388E-20	1.1342E+05	7.3555E-03
Cm-242	4.2689E-14	1.2896E-20	3.2092E+04	2.0197E+00
Cm-244	2.8236E-15	3.4496E-20	8.5139E+04	1.3358E-01

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	3.4661E+14	0.0000E+00	
Elemental I (atoms)	2.2282E+10	0.0000E+00	
Organic I (atoms)	5.4141E+09	0.0000E+00	
Aerosols (kg)	1.0976E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	7.5068E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	9.2420E-17	
Total I (Ci)		3.4886E-06	

Deposition Recirculating

Time (h) =	2.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.0287E+09	
Organic I (atoms)	0.0000E+00	1.9154E+08	
Aerosols (kg)	0.0000E+00	4.5551E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1433E+14
Elemental I (atoms)	1.3169E+11	1.3302E+09
Organic I (atoms)	3.0942E+10	3.1255E+08
Aerosols (kg)	4.9832E-14	5.0335E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.8210E+13
Elemental I (atoms)	0.0000E+00	2.4633E+10
Organic I (atoms)	0.0000E+00	5.7879E+09
Aerosols (kg)	0.0000E+00	9.3213E-15

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	2.5755E+13	0.0000E+00
Elemental I (atoms)	2.4629E+09	0.0000E+00
Organic I (atoms)	4.5861E+08	0.0000E+00
Aerosols (kg)	1.0906E-15	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2656E-05	1.3324E-04	3.6847E-05
Accumulated dose (rem)		7.1314E-05	3.6390E-04	8.2772E-05

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4456E-06	1.8138E-05	5.0161E-06
Accumulated dose (rem)		9.7083E-06	4.9539E-05	1.1268E-05

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2819E-06	2.9684E-05	4.0951E-06
Accumulated dose (rem)		4.5969E-06	7.2637E-05	8.4615E-06

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		9.9837E-05	4.9182E-15	3.5685E+10	6.4808E+09
Kr-85m		3.6711E-04	4.4608E-14	3.1604E+11	2.2160E+10
Kr-85		2.6285E-05	6.7058E-11	4.7510E+14	1.5099E+09
Kr-87		3.0774E-04	1.0864E-14	7.5202E+10	2.1213E+10
Kr-88		8.2306E-04	6.5639E-14	4.4919E+11	5.1164E+10
Rb-86		1.1115E-11	1.3660E-19	9.5656E+05	9.0122E+02
Rb-88		5.0832E-04	4.2109E-15	2.8816E+10	1.9071E+10
Sr-89		1.2075E-10	4.1564E-18	2.8124E+07	7.3343E+03
Sr-90		1.2934E-11	9.4821E-17	6.3447E+08	7.8546E+02
Sr-91		1.2646E-10	3.4887E-20	2.3087E+05	7.8631E+03
Sr-92		8.6782E-11	6.9042E-21	4.5194E+04	5.7331E+03
Y-91		1.5527E-12	6.3314E-20	4.1899E+05	9.3793E+01
Y-92		2.6581E-11	2.7624E-21	1.8082E+04	1.3516E+03
Zr-95		1.7872E-12	8.3192E-20	5.2736E+05	1.0855E+02
Nb-95		1.7644E-12	4.5122E-20	2.8604E+05	1.0714E+02
Mo-99		2.2055E-11	4.5985E-20	2.7972E+05	1.3439E+03
Tc-99m		1.9856E-11	3.7762E-21	2.2970E+04	1.2000E+03
Ru-103		1.9519E-11	6.0478E-19	3.5360E+06	1.1856E+03
Ru-106		8.1265E-12	2.4290E-18	1.3800E+07	4.9351E+02
Rh-105		1.2908E-11	1.5293E-20	8.7709E+04	7.8431E+02
Sb-127		2.2118E-11	8.2823E-20	3.9273E+05	1.3464E+03
Sb-129		4.8443E-11	8.6145E-21	4.0215E+04	3.0998E+03
Te-127		2.2205E-11	8.4140E-21	3.9898E+04	1.3441E+03
Te-127m		3.8049E-12	4.0338E-19	1.9127E+06	2.3106E+02
Te-129		5.5685E-11	2.6590E-21	1.2413E+04	3.4006E+03
Te-129m		1.2478E-11	4.1421E-19	1.9337E+06	7.5776E+02
Te-131m		4.4879E-11	5.6281E-20	2.5873E+05	2.7457E+03
Te-132		3.3248E-10	1.0951E-18	4.9963E+06	2.0248E+04
I-131		7.8710E-07	6.3489E-15	2.9186E+10	6.0309E+07
I-132		6.5799E-07	6.3745E-17	2.9082E+08	5.5737E+07
I-133		1.5262E-06	1.3472E-15	6.1002E+09	1.1837E+08
I-134		3.1855E-07	1.1941E-17	5.3666E+07	3.4835E+07
I-135		1.2278E-06	3.4963E-16	1.5596E+09	9.8096E+07
Xe-133		3.1907E-03	1.7046E-11	7.7184E+13	1.8357E+11
Xe-133m		9.6741E-05	2.1974E-13	9.9496E+11	5.5778E+09
Xe-135		1.3099E-03	5.1293E-13	2.2881E+12	7.6663E+10
Xe-135m		2.3833E-05	2.6181E-16	1.1679E+09	2.7451E+09
Xe-138		3.9649E-06	4.1321E-17	1.8032E+08	8.5435E+08
Cs-134		1.1153E-09	8.6200E-16	3.8739E+09	9.0370E+04
Cs-136		3.3863E-10	4.6204E-18	2.0459E+07	2.7464E+04
Cs-137		8.6593E-10	9.9553E-15	4.3760E+10	7.0164E+04
Ba-139		5.8952E-11	3.6041E-21	1.5615E+04	4.2428E+03
Ba-140		1.7694E-10	2.4170E-18	1.0397E+07	1.0753E+04
La-140		6.0307E-12	1.0850E-20	4.6671E+04	3.0874E+02

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Ce-141	4.1962E-12	1.4727E-19	6.2899E+05	2.5487E+02
Ce-143	3.9057E-12	5.8813E-21	2.4768E+04	2.3879E+02
Ce-144	3.3646E-12	1.0549E-18	4.4117E+06	2.0433E+02
Pr-143	1.6099E-12	2.3908E-20	1.0068E+05	9.7660E+01
Nd-147	6.4989E-13	8.0334E-21	3.2910E+04	3.9499E+01
Np-239	4.6585E-11	2.0081E-19	5.0598E+05	2.8402E+03
Pu-238	1.0457E-14	6.1080E-19	1.5455E+06	6.3500E-01
Pu-239	1.0548E-15	1.6970E-17	4.2759E+07	6.4051E-02
Pu-240	1.8628E-15	8.1789E-19	2.0523E+06	1.1312E-01
Pu-241	4.1386E-13	4.1850E-18	1.0457E+07	2.5133E+01
Am-241	2.3422E-16	6.8368E-20	1.7084E+05	1.4222E-02
Cm-242	6.4295E-14	1.9423E-20	4.8334E+04	3.9047E+00
Cm-244	4.2528E-15	5.1958E-20	1.2824E+05	2.5826E-01

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump	
Noble gases (atoms)	5.5644E+14	0.0000E+00		
Elemental I (atoms)	2.8905E+10	0.0000E+00		
Organic I (atoms)	8.0593E+09	0.0000E+00		
Aerosols (kg)	1.5213E-14	0.0000E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0019E-16	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.2294E-16	
Total I (Ci)			4.5176E-06	

		Deposition	Recirculating	
Time (h) =	2.2500	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	1.6981E+09		
Organic I (atoms)	0.0000E+00	3.6613E+08		
Aerosols (kg)	0.0000E+00	7.8896E-16		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	2.2500	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	5.1502E+14		
Elemental I (atoms)	1.7736E+11	1.7915E+09		
Organic I (atoms)	4.7513E+10	4.7993E+08		
Aerosols (kg)	6.6963E-14	6.7639E-16		

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	2.2500	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	9.5374E+13		
Elemental I (atoms)	0.0000E+00	3.3176E+10		
Organic I (atoms)	0.0000E+00	8.8875E+09		
Aerosols (kg)	0.0000E+00	1.2526E-14		

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	2.2500	Filtered	Transported	
Noble gases (atoms)	5.3604E+13	0.0000E+00		
Elemental I (atoms)	4.0658E+09	0.0000E+00		
Organic I (atoms)	8.7662E+08	0.0000E+00		
Aerosols (kg)	1.8890E-15	0.0000E+00		

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7688E-05	1.0314E-04	3.0930E-05
Accumulated dose (rem)		9.9001E-05	4.6703E-04	1.1370E-04

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.7692E-06	1.4040E-05	4.2107E-06
Accumulated dose (rem)		1.3477E-05	6.3579E-05	1.5479E-05

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9162E-06	2.2482E-05	3.4091E-06

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Accumulated dose (rem) 6.5131E-06 9.5120E-05 1.1871E-05

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m	1.2626E-04	6.2201E-15	4.5130E+10	8.9147E+09	
Kr-85m	4.7971E-04	5.8291E-14	4.1298E+11	3.1259E+10	
Kr-85	3.5153E-05	8.9684E-11	6.3540E+14	2.1692E+09	
Kr-87	3.7926E-04	1.3389E-14	9.2680E+10	2.8618E+10	
Kr-88	1.0612E-03	8.4630E-14	5.7915E+11	7.1426E+10	
Rb-86	1.2994E-11	1.5969E-19	1.1182E+06	1.1521E+03	
Rb-88	6.6676E-04	5.5233E-15	3.7798E+10	2.8719E+10	
Sr-89	1.5443E-10	5.3156E-18	3.5967E+07	1.0259E+04	
Sr-90	1.6543E-11	1.2128E-16	8.1149E+08	1.0988E+03	
Sr-91	1.5999E-10	4.4134E-20	2.9207E+05	1.0909E+04	
Sr-92	1.0682E-10	8.4981E-21	5.5627E+04	7.7946E+03	
Y-91	1.9897E-12	8.1135E-20	5.3693E+05	1.3141E+02	
Y-92	3.5563E-11	3.6959E-21	2.4193E+04	1.9907E+03	
Zr-95	2.2857E-12	1.0639E-19	6.7445E+05	1.5184E+02	
Nb-95	2.2567E-12	5.7711E-20	3.6584E+05	1.4988E+02	
Mo-99	2.8164E-11	5.8722E-20	3.5720E+05	1.8777E+03	
Tc-99m	2.5388E-11	4.8282E-21	2.9369E+04	1.6787E+03	
Ru-103	2.4961E-11	7.7342E-19	4.5220E+06	1.6584E+03	
Ru-105	1.2247E-11	1.8219E-21	1.0449E+04	8.6095E+02	
Ru-106	1.0394E-11	3.1067E-18	1.7650E+07	6.9036E+02	
Rh-105	1.6497E-11	1.9545E-20	1.1210E+05	1.0967E+03	
Sb-127	2.8257E-11	1.0581E-19	5.0174E+05	1.8819E+03	
Sb-129	6.0484E-11	1.0756E-20	5.0212E+04	4.2589E+03	
Te-127	2.8397E-11	1.0760E-20	5.1022E+04	1.8804E+03	
Te-127m	4.8664E-12	5.1592E-19	2.4464E+06	3.2322E+02	
Te-129	7.0168E-11	3.3505E-21	1.5641E+04	4.7123E+03	
Te-129m	1.5959E-11	5.2976E-19	2.4731E+06	1.0600E+03	
Te-131m	5.7201E-11	7.1734E-20	3.2977E+05	3.8309E+03	
Te-132	4.2467E-10	1.3988E-18	6.3817E+06	2.8296E+04	
I-131	9.4256E-07	7.6029E-15	3.4951E+10	7.8411E+07	
I-132	7.6244E-07	7.3864E-17	3.3698E+08	7.0667E+07	
I-133	1.8194E-06	1.6061E-15	7.2724E+09	1.5339E+08	
I-134	3.3899E-07	1.2707E-17	5.7108E+07	4.1740E+07	
I-135	1.4482E-06	4.1237E-16	1.8395E+09	1.2612E+08	
Xe-133	4.2643E-03	2.2782E-11	1.0315E+14	2.6357E+11	
Xe-133m	1.2916E-04	2.9338E-13	1.3284E+12	8.0023E+09	
Xe-135	1.7371E-03	6.8024E-13	3.0344E+12	1.0940E+11	
Xe-135m	2.5600E-05	2.8122E-16	1.2545E+09	3.3065E+09	
Xe-138	3.4174E-06	3.5616E-17	1.5542E+08	9.3445E+08	
Cs-134	1.3041E-09	1.0079E-15	4.5298E+09	1.1555E+05	
Cs-136	3.9583E-10	5.4008E-18	2.3915E+07	3.5107E+04	
Cs-137	1.0125E-09	1.1641E-14	5.1169E+10	8.9711E+04	
Ba-139	6.9921E-11	4.2747E-21	1.8520E+04	5.6173E+03	
Ba-140	2.2623E-10	3.0902E-18	1.3293E+07	1.5038E+04	
La-140	8.1722E-12	1.4703E-20	6.3244E+04	4.5566E+02	
Ce-141	5.3665E-12	1.8834E-19	8.0441E+05	3.5651E+02	
Ce-143	4.9796E-12	7.4985E-21	3.1578E+04	3.3324E+02	
Ce-144	4.3033E-12	1.3492E-18	5.6424E+06	2.8583E+02	
Pr-143	2.0598E-12	3.0589E-20	1.2882E+05	1.3665E+02	
Nd-147	8.3088E-13	1.0271E-20	4.2076E+04	5.5238E+01	
Np-239	5.9473E-11	2.5636E-19	6.4595E+05	3.9675E+03	
Pu-238	1.3374E-14	7.8120E-19	1.9767E+06	8.8829E-01	
Pu-239	1.3491E-15	2.1705E-17	5.4690E+07	8.9600E-02	
Pu-240	2.3825E-15	1.0461E-18	2.6248E+06	1.5825E-01	
Pu-241	5.2932E-13	5.3525E-18	1.3375E+07	3.5157E+01	
Am-241	2.9957E-16	8.7446E-20	2.1851E+05	1.9895E-02	
Cm-242	8.2230E-14	2.4841E-20	6.1817E+04	5.4620E+00	
Cm-244	5.4393E-15	6.6454E-20	1.6401E+05	3.6128E-01	

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	7.4405E+14	0.0000E+00	
Elemental I (atoms)	3.3869E+10	0.0000E+00	
Organic I (atoms)	1.0323E+10	0.0000E+00	
Aerosols (kg)	1.8403E-14	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1978E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.4669E-16
Total I (Ci)			5.3116E-06

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	Deposition Recirculating	
	Surfaces	Filter
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.1929E+09
Organic I (atoms)	0.0000E+00	5.1057E+08
Aerosols (kg)	0.0000E+00	1.0474E-15

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	6.9404E+14
Elemental I (atoms)	2.1146E+11	2.1359E+09
Organic I (atoms)	6.1599E+10	6.2221E+08
Aerosols (kg)	7.9724E-14	8.0529E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	0.0000E+00	1.2853E+14
Elemental I (atoms)	0.0000E+00	3.9554E+10
Organic I (atoms)	0.0000E+00	1.1522E+10
Aerosols (kg)	0.0000E+00	1.4913E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 2.4000		
Noble gases (atoms)	7.8017E+13	0.0000E+00
Elemental I (atoms)	5.2505E+09	0.0000E+00
Organic I (atoms)	1.2225E+09	0.0000E+00
Aerosols (kg)	2.5078E-15	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 4.0000			
Delta dose (rem)	8.9153E-04	2.7066E-03	9.7643E-04
Accumulated dose (rem)	9.9053E-04	3.1737E-03	1.0901E-03

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 4.0000			
Delta dose (rem)	1.2137E-04	3.6846E-04	1.3293E-04
Accumulated dose (rem)	1.3485E-04	4.3204E-04	1.4840E-04

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 4.0000			
Delta dose (rem)	8.5185E-05	6.9366E-04	1.4663E-04
Accumulated dose (rem)	9.1698E-05	7.8878E-04	1.5850E-04

CR Compartment Nuclide Inventory:

Time (h) = 4.0000	Ci	kg	Atoms	Decay
Kr-83m	7.6210E-04	3.7543E-14	2.7240E+11	9.9046E+10
Kr-85m	4.1035E-03	4.9863E-13	3.5327E+12	4.5991E+11
Kr-85	3.8518E-04	9.8267E-10	6.9621E+15	3.9192E+10
Kr-87	1.7373E-03	6.1332E-14	4.2454E+11	2.5664E+11
Kr-88	7.8684E-03	6.2750E-13	4.2942E+12	9.3542E+11
Rb-86	5.1712E-11	6.3554E-19	4.4503E+06	7.6990E+03
Rb-88	6.0798E-03	5.0364E-14	3.4466E+11	5.0343E+11
Sr-89	1.0698E-09	3.6824E-17	2.4916E+08	1.2786E+05
Sr-90	1.1471E-10	8.4090E-16	5.6267E+09	1.3704E+04
Sr-91	9.8709E-10	2.7230E-19	1.8020E+06	1.2406E+05
Sr-92	4.9190E-10	3.9135E-20	2.5617E+05	7.0735E+04
Y-90	4.7473E-12	8.7256E-21	5.8385E+04	4.7158E+02
Y-91	1.4083E-11	5.7425E-19	3.8003E+06	1.6663E+03
Y-92	3.2080E-10	3.3339E-20	2.1823E+05	3.4209E+04
Y-93	1.1394E-11	3.4151E-21	2.2114E+04	1.4276E+03
Zr-95	1.5837E-11	7.3719E-19	4.6731E+06	1.8926E+03
Zr-97	1.2989E-11	6.7945E-21	4.2183E+04	1.5963E+03
Nb-95	1.5648E-11	4.0016E-19	2.5367E+06	1.8693E+03
Mo-99	1.9203E-10	4.0038E-19	2.4355E+06	2.3107E+04

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Tc-99m	1.7525E-10	3.3328E-20	2.0273E+05	2.0863E+04
Ru-103	1.7288E-10	5.3565E-18	3.1318E+07	2.0664E+04
Ru-105	6.6147E-11	9.8404E-21	5.6438E+04	8.8262E+03
Ru-106	7.2059E-11	2.1538E-17	1.2237E+08	8.6093E+03
Rh-105	1.1318E-10	1.3409E-19	7.6904E+05	1.3578E+04
Sb-127	1.9359E-10	7.2492E-19	3.4375E+06	2.3247E+04
Sb-129	3.2443E-10	5.7694E-20	2.6933E+05	4.3428E+04
Te-127	1.9651E-10	7.4462E-20	3.5309E+05	2.3414E+04
Te-127m	3.3744E-11	3.5773E-18	1.6963E+07	4.0312E+03
Te-129	4.0964E-10	1.9560E-20	9.1315E+04	5.1578E+04
Te-129m	1.1062E-10	3.6719E-18	1.7142E+07	1.3217E+04
Te-131m	3.8223E-10	4.7934E-19	2.2036E+06	4.6395E+04
Te-132	2.9032E-09	9.5627E-18	4.3627E+07	3.4895E+05
I-131	4.8517E-06	3.9134E-14	1.7990E+11	6.4215E+08
I-132	2.8056E-06	2.7180E-16	1.2400E+09	4.4353E+08
I-133	8.9284E-06	7.8817E-15	3.5688E+10	1.2096E+09
I-134	4.9519E-07	1.8562E-17	8.3422E+07	1.3958E+08
I-135	6.3379E-06	1.8047E-15	8.0506E+09	9.0933E+08
Xe-133	4.6362E-02	2.4770E-10	1.1216E+15	4.7317E+12
Xe-133m	1.3889E-03	3.1547E-12	1.4284E+13	1.4235E+11
Xe-135	1.7254E-02	6.7562E-12	3.0138E+13	1.8261E+12
Xe-135m	5.0491E-05	5.5465E-16	2.4742E+09	1.2629E+10
Xe-138	3.4534E-07	3.5991E-18	1.5706E+07	1.2815E+09
Cs-134	5.2025E-09	4.0210E-15	1.8071E+10	7.7358E+05
Cs-136	1.5736E-09	2.1471E-17	9.5076E+07	2.3442E+05
Cs-137	4.0396E-09	4.6442E-14	2.0414E+11	6.0064E+05
Ba-139	2.1684E-10	1.3257E-20	5.7434E+04	3.8129E+04
Ba-140	1.5630E-09	2.1350E-17	9.1836E+07	1.8702E+05
La-140	9.2586E-11	1.6657E-19	7.1652E+05	9.0189E+03
Ce-141	3.7173E-11	1.3046E-18	5.5720E+06	4.4430E+03
Ce-143	3.3387E-11	5.0275E-20	2.1172E+05	4.0467E+03
Ce-144	2.9833E-11	9.3537E-18	3.9117E+07	3.5644E+03
Pr-143	1.4340E-11	2.1296E-19	8.9683E+05	1.7098E+03
Nd-147	5.7370E-12	7.0916E-20	2.9052E+05	6.8663E+02
Np-239	4.0436E-10	1.7430E-18	4.3919E+06	4.8717E+04
Pu-238	9.2734E-14	5.4168E-18	1.3706E+07	1.1079E+01
Pu-239	9.3565E-15	1.5053E-16	3.7930E+08	1.1177E+00
Pu-240	1.6520E-14	7.2533E-18	1.8200E+07	1.9737E+00
Pu-241	3.6702E-12	3.7113E-17	9.2739E+07	4.3848E+02
Am-241	2.0782E-15	6.0663E-19	1.5158E+06	2.4823E-01
Cm-242	5.7001E-13	1.7220E-19	4.2851E+05	6.8107E+01
Cm-244	3.7715E-14	4.6078E-19	1.1372E+06	4.5059E+00

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	8.1366E+15	0.0000E+00	
Elemental I (atoms)	1.3694E+11	0.0000E+00	
Organic I (atoms)	8.6950E+10	0.0000E+00	
Aerosols (kg)	1.0224E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.0605E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.2993E-16	
Total I (Ci)		2.3419E-05	

Deposition Recirculating

Time (h) =	4.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.5301E+10	
Organic I (atoms)	0.0000E+00	7.1181E+09	
Aerosols (kg)	0.0000E+00	9.5585E-15	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.1072E+15
Elemental I (atoms)	9.6952E+11	9.7932E+09
Organic I (atoms)	5.6892E+11	5.7467E+09
Aerosols (kg)	3.6300E-13	3.6667E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5013E+15

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Elemental I (atoms)	0.0000E+00	1.8135E+11
Organic I (atoms)	0.0000E+00	1.0642E+11
Aerosols (kg)	0.0000E+00	6.7902E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	1.4637E+15	0.0000E+00
Elemental I (atoms)	3.6636E+10	0.0000E+00
Organic I (atoms)	1.7043E+10	0.0000E+00
Aerosols (kg)	2.2886E-14	0.0000E+00

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6994E-03	2.8665E-02	9.5940E-03
Accumulated dose (rem)	9.6900E-03	3.1838E-02	1.0684E-02

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1843E-03	3.9022E-03	1.3061E-03
Accumulated dose (rem)	1.3191E-03	4.3343E-03	1.4545E-03

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6396E-03	1.2179E-02	2.8669E-03
Accumulated dose (rem)	1.7313E-03	1.2968E-02	3.0254E-03

CR Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Kr-83m	2.4808E-03	1.2221E-13	8.8670E+11	1.0837E+12
Kr-85m	3.1939E-02	3.8810E-12	2.7497E+13	9.5008E+12
Kr-85	5.5670E-03	1.4203E-08	1.0062E+17	1.3176E+12
Kr-87	2.8375E-03	1.0017E-13	6.9340E+11	1.7868E+12
Kr-88	4.2840E-02	3.4165E-12	2.3380E+13	1.4775E+13
Rb-86	2.5264E-10	3.1049E-18	2.1742E+07	8.6201E+04
Rb-88	4.0385E-02	3.3454E-13	2.2894E+12	1.0639E+13
Sr-89	7.0841E-09	2.4384E-16	1.6499E+09	2.1764E+06
Sr-90	7.6130E-10	5.5811E-15	3.7344E+10	2.3367E+05
Sr-91	4.8931E-09	1.3498E-18	8.9328E+06	1.7019E+06
Sr-92	1.1736E-09	9.3372E-20	6.1119E+05	5.8264E+05
Y-90	6.1463E-11	1.1297E-19	7.5592E+05	1.4936E+04
Y-91	9.7775E-11	3.9869E-18	2.6384E+07	2.9470E+04
Y-92	1.9765E-09	2.0541E-19	1.3445E+06	6.4598E+05
Y-93	5.7467E-11	1.7225E-20	1.1154E+05	1.9835E+04
Zr-95	1.0492E-10	4.8840E-18	3.0960E+07	3.2228E+04
Zr-97	7.3164E-11	3.8272E-20	2.3761E+05	2.4065E+04
Nb-95	1.0385E-10	2.6559E-18	1.6836E+07	3.1875E+04
Mo-99	1.2221E-09	2.5480E-18	1.5500E+07	3.8170E+05
Tc-99m	1.1409E-09	2.1697E-19	1.3198E+06	3.5129E+05
Ru-103	1.1440E-09	3.5447E-17	2.0725E+08	3.5156E+05
Ru-105	2.3512E-10	3.4978E-20	2.0061E+05	9.5387E+04
Ru-106	4.7811E-10	1.4291E-16	8.1189E+08	1.4676E+05
Rh-105	7.1906E-10	8.5191E-19	4.8860E+06	2.2496E+05
Sb-127	1.2469E-09	4.6691E-18	2.2140E+07	3.8751E+05
Sb-129	1.1334E-09	2.0154E-19	9.4088E+05	4.6367E+05
Te-127	1.2933E-09	4.9003E-19	2.3237E+06	3.9704E+05
Te-127m	2.2396E-10	2.3743E-17	1.1259E+08	6.8739E+04
Te-129	1.7103E-09	8.1669E-20	3.8126E+05	6.2688E+05
Te-129m	7.3286E-10	2.4327E-17	1.1357E+08	2.2512E+05
Te-131m	2.3129E-09	2.9006E-18	1.3334E+07	7.3788E+05
Te-132	1.8597E-08	6.1257E-17	2.7947E+08	5.7927E+06
I-131	3.7047E-05	2.9882E-13	1.3737E+12	1.0586E+10
I-132	9.6984E-06	9.3957E-16	4.2865E+09	3.9326E+09
I-133	6.0512E-05	5.3418E-14	2.4187E+11	1.8160E+10
I-134	1.6226E-07	6.0824E-18	2.7335E+07	3.3128E+08
I-135	3.2265E-05	9.1876E-15	4.0984E+10	1.0963E+10
Xe-133	6.5641E-01	3.5068E-09	1.5878E+16	1.5648E+14
Xe-133m	1.9091E-02	4.3365E-11	1.9635E+14	4.5982E+12
Xe-135	1.8746E-01	7.3407E-11	3.2746E+14	4.9195E+13

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Xe-135m	1.0663E-04	1.1714E-15	5.2252E+09	6.3320E+10
Cs-134	2.5571E-08	1.9764E-14	8.8821E+10	8.7007E+06
Cs-136	7.6679E-09	1.0462E-16	4.6328E+08	2.6194E+06
Cs-137	1.9858E-08	2.2830E-13	1.0035E+12	6.7564E+06
Ba-139	1.9253E-10	1.1771E-20	5.0997E+04	1.7286E+05
Ba-140	1.0280E-08	1.4042E-16	6.0402E+08	3.1671E+06
La-140	1.2403E-09	2.2314E-18	9.5984E+06	2.9899E+05
La-141	2.3968E-11	4.2380E-21	1.8101E+04	1.0115E+04
Ce-141	2.4598E-10	8.6329E-18	3.6871E+07	7.5594E+04
Ce-143	2.0373E-10	3.0679E-19	1.2920E+06	6.4766E+04
Ce-144	1.9793E-10	6.2056E-17	2.5952E+08	6.0760E+04
Pr-143	9.6134E-11	1.4276E-18	6.0121E+06	2.9381E+04
Nd-147	3.7678E-11	4.6575E-19	1.9080E+06	1.1615E+04
Np-239	2.5553E-09	1.1015E-17	2.7754E+07	8.0047E+05
Pu-238	6.1549E-13	3.5952E-17	9.0971E+07	1.8891E+02
Pu-239	6.2134E-14	9.9964E-16	2.5188E+09	1.9066E+01
Pu-240	1.0965E-13	4.8141E-17	1.2080E+08	3.3654E+01
Pu-241	2.4359E-11	2.4632E-16	6.1550E+08	7.4766E+03
Am-241	1.3811E-14	4.0313E-18	1.0073E+07	4.2366E+00
Cm-242	3.7805E-12	1.1421E-18	2.8420E+06	1.1607E+03
Cm-244	2.5031E-13	3.0581E-18	7.5478E+06	7.6830E+01

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	1.1708E+17	0.0000E+00	
Elemental I (atoms)	6.5256E+11	0.0000E+00	
Organic I (atoms)	1.0031E+12	0.0000E+00	
Aerosols (kg)	5.9155E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.4594E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.2145E-15	
Total I (Ci)		1.3968E-04	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7490E+11
Organic I (atoms)	0.0000E+00	1.9484E+11
Aerosols (kg)	0.0000E+00	1.4707E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4202E+17
Elemental I (atoms)	6.4271E+12	6.4920E+10
Organic I (atoms)	8.5587E+12	8.6451E+10
Aerosols (kg)	2.4666E-12	2.4916E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6300E+16
Elemental I (atoms)	0.0000E+00	1.2022E+12
Organic I (atoms)	0.0000E+00	1.6009E+12
Aerosols (kg)	0.0000E+00	4.6140E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	Filtered Transported
Noble gases (atoms)	5.1010E+16	0.0000E+00
Elemental I (atoms)	4.1878E+11	0.0000E+00
Organic I (atoms)	4.6652E+11	0.0000E+00
Aerosols (kg)	3.5214E-13	0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5398E-02	1.9152E-01	4.1339E-02	
Accumulated dose (rem)	4.5088E-02	2.2336E-01	5.2023E-02	

LPZ Doses:

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Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2423E-03	9.0219E-03	3.5222E-03
Accumulated dose (rem)	4.5615E-03	1.3356E-02	4.9767E-03

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4470E-03	5.6017E-02	9.8046E-03
Accumulated dose (rem)	7.1783E-03	6.8985E-02	1.2830E-02

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	3.4101E-04	1.6799E-14	1.2189E+11	2.1679E+12
Kr-85m	2.5102E-02	3.0502E-12	2.1610E+13	3.8672E+13
Kr-85	1.5085E-02	3.8485E-08	2.7266E+17	1.1328E+13
Kr-87	9.8197E-05	3.4667E-15	2.3997E+10	2.5984E+12
Kr-88	1.6474E-02	1.3138E-12	8.9910E+12	4.2841E+13
Rb-86	2.2625E-10	2.7806E-18	1.9471E+07	3.1883E+05
Rb-88	4.7353E-02	3.9226E-13	2.6844E+12	3.2893E+13
Sr-89	7.2841E-09	2.5072E-16	1.6965E+09	9.2136E+06
Sr-90	7.8636E-10	5.7648E-15	3.8574E+10	9.9168E+05
Sr-91	2.8194E-09	7.7777E-19	5.1471E+06	5.3681E+06
Sr-92	1.5666E-10	1.2464E-20	8.1584E+04	1.0711E+06
Y-90	1.2296E-10	2.2601E-19	1.5123E+06	1.0391E+05
Y-91	1.0678E-10	4.3539E-18	2.8813E+07	1.2981E+05
Y-92	7.4739E-10	7.7672E-20	5.0843E+05	1.9140E+06
Y-93	3.4281E-11	1.0275E-20	6.6536E+04	6.3591E+04
Zr-95	1.0799E-10	5.0266E-18	3.1864E+07	1.3651E+05
Zr-97	5.4434E-11	2.8475E-20	1.7678E+05	8.5929E+04
Nb-95	1.0727E-10	2.7434E-18	1.7390E+07	1.3526E+05
Mo-99	1.1606E-09	2.4199E-18	1.4720E+07	1.5476E+06
Tc-99m	1.1267E-09	2.1427E-19	1.3034E+06	1.4307E+06
Ru-103	1.1748E-09	3.6400E-17	2.1282E+08	1.4872E+06
Ru-105	6.9657E-11	1.0363E-20	5.9433E+04	2.2737E+05
Ru-106	4.9354E-10	1.4752E-16	8.3811E+08	6.2266E+05
Rh-105	6.5482E-10	7.7580E-19	4.4495E+06	8.9802E+05
Sb-127	1.2130E-09	4.5420E-18	2.1537E+07	1.5916E+06
Sb-129	3.2432E-10	5.7674E-20	2.6924E+05	1.0910E+06
Te-127	1.3076E-09	4.9547E-19	2.3494E+06	1.6483E+06
Te-127m	2.3133E-10	2.4524E-17	1.1629E+08	2.9172E+05
Te-129	1.0581E-09	5.0525E-20	2.3586E+05	1.7218E+06
Te-129m	7.5280E-10	2.4989E-17	1.1666E+08	9.5283E+05
Te-131m	1.9859E-09	2.4905E-18	1.1449E+07	2.8359E+06
Te-132	1.7895E-08	5.8943E-17	2.6891E+08	2.3653E+07
I-131	6.3028E-05	5.0839E-13	2.3371E+12	5.8688E+10
I-132	6.4674E-06	6.2656E-16	2.8585E+09	1.1215E+10
I-133	8.1119E-05	7.1609E-14	3.2424E+11	8.7053E+10
I-134	5.0842E-10	1.9059E-20	8.5652E+04	3.5805E+08
I-135	2.4404E-05	6.9491E-15	3.0999E+10	3.8294E+10
Xe-133	1.7047E+00	9.1073E-09	4.1237E+16	1.3073E+15
Xe-133m	4.6676E-02	1.0602E-10	4.8005E+14	3.6895E+13
Xe-135	2.7835E-01	1.0900E-10	4.8622E+14	2.8808E+14
Xe-135m	2.7976E-05	3.0732E-16	1.3709E+09	1.3029E+11
Cs-134	2.3178E-08	1.7914E-14	8.0508E+10	3.2389E+07
Cs-136	6.8309E-09	9.3202E-17	4.1270E+08	9.6617E+06
Cs-137	1.8004E-08	2.0699E-13	9.0988E+11	2.5155E+07
Ba-140	1.0428E-08	1.4244E-16	6.1270E+08	1.3308E+07
La-140	2.4615E-09	4.4285E-18	1.9049E+07	2.0888E+06
Ce-141	2.5239E-10	8.8577E-18	3.7831E+07	3.1969E+05
Ce-143	1.7789E-10	2.6788E-19	1.1281E+06	2.5112E+05
Ce-144	2.0428E-10	6.4047E-17	2.6785E+08	2.5775E+05
Pr-143	1.0087E-10	1.4979E-18	6.3082E+06	1.2583E+05
Nd-147	3.8109E-11	4.7107E-19	1.9298E+06	4.8730E+04
Np-239	2.3928E-09	1.0314E-17	2.5989E+07	3.2211E+06
Pu-238	6.3579E-13	3.7138E-17	9.3970E+07	8.0177E+02
Pu-239	6.4247E-14	1.0336E-15	2.6045E+09	8.0965E+01
Pu-240	1.1328E-13	4.9726E-17	1.2477E+08	1.4283E+02
Pu-241	2.5160E-11	2.5442E-16	6.3575E+08	3.1730E+04
Am-241	1.4302E-14	4.1747E-18	1.0432E+07	1.8005E+01
Cm-242	3.8995E-12	1.1780E-18	2.9315E+06	4.9222E+03
Cm-244	2.5855E-13	3.1588E-18	7.7961E+06	3.2606E+02

CR Transport Group Inventory:

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Time (h) = 16.0000	Atmosphere	Sump	
Noble gases (atoms)	3.1489E+17	0.0000E+00	
Elemental I (atoms)	5.3115E+11	0.0000E+00	
Organic I (atoms)	2.1596E+12	0.0000E+00	
Aerosols (kg)	6.2618E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		7.1626E-15
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		8.0617E-15
Total I (Ci)			1.7502E-04

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	6.2839E+11
Organic I (atoms)	0.0000E+00	1.3536E+12
Aerosols (kg)	0.0000E+00	5.6802E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3143E+17
Elemental I (atoms)	1.3833E+13	1.3973E+11
Organic I (atoms)	3.4928E+13	3.5281E+11
Aerosols (kg)	5.5839E-12	5.6403E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1693E+17
Elemental I (atoms)	0.0000E+00	2.5875E+12
Organic I (atoms)	0.0000E+00	6.5335E+12
Aerosols (kg)	0.0000E+00	1.0445E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	4.3177E+17	0.0000E+00
Elemental I (atoms)	1.5046E+12	0.0000E+00
Organic I (atoms)	3.2410E+12	0.0000E+00
Aerosols (kg)	1.3600E-12	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2104E-02	3.6258E-01	5.3301E-02
Accumulated dose (rem)	8.7192E-02	5.8593E-01	1.0532E-01

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8566E-03	1.7080E-02	4.3840E-03
Accumulated dose (rem)	8.4180E-03	3.0436E-02	9.3607E-03

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6663E-03	1.0678E-01	1.2021E-02
Accumulated dose (rem)	1.3845E-02	1.7576E-01	2.4851E-02

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	3.7110E-05	1.8281E-15	1.3264E+10	2.3286E+12
Kr-85m	1.5618E-02	1.8978E-12	1.3446E+13	6.2022E+13
Kr-85	3.2359E-02	8.2555E-08	5.8489E+17	3.7635E+13
Kr-87	2.6903E-06	9.4979E-17	6.5744E+08	2.6296E+12
Kr-88	5.0155E-03	3.9998E-13	2.7372E+12	5.4121E+13
Rb-86	2.3353E-10	2.8701E-18	2.0098E+07	5.6940E+05
Rb-88	1.4499E-02	1.2011E-13	8.2192E+11	4.1806E+13
Sr-89	8.2395E-09	2.8361E-16	1.9190E+09	1.7720E+07
Sr-90	8.9356E-10	6.5507E-15	4.3833E+10	1.9121E+06
Sr-91	1.7872E-09	4.9302E-19	3.2627E+06	7.8551E+06

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Sr-92	2.3005E-11	1.8302E-21	1.1980E+04	1.1478E+06
Y-90	2.0200E-10	3.7128E-19	2.4844E+06	2.7591E+05
Y-91	1.2470E-10	5.0848E-18	3.3650E+07	2.5649E+05
Y-92	2.2684E-10	2.3574E-20	1.5431E+05	2.3929E+06
Y-93	2.2497E-11	6.7432E-21	4.3665E+04	9.4318E+04
Zr-95	1.2227E-10	5.6915E-18	3.6079E+07	2.6268E+05
Zr-97	4.4554E-11	2.3306E-20	1.4470E+05	1.4009E+05
Nb-95	1.2190E-10	3.1173E-18	1.9761E+07	2.6078E+05
Mo-99	1.2126E-09	2.5283E-18	1.5379E+07	2.8497E+06
Tc-99m	1.2146E-09	2.3099E-19	1.4051E+06	2.6503E+06
Ru-103	1.3271E-09	4.1121E-17	2.4042E+08	2.8582E+06
Ru-105	2.2703E-11	3.3774E-21	1.9371E+04	2.7341E+05
Ru-106	5.6049E-10	1.6753E-16	9.5179E+08	1.2002E+06
Rh-105	6.4263E-10	7.6136E-19	4.3667E+06	1.6102E+06
Sb-127	1.2981E-09	4.8607E-18	2.3049E+07	2.9690E+06
Sb-129	1.0210E-10	1.8157E-20	8.4761E+04	1.3024E+06
Te-127	1.4484E-09	5.4882E-19	2.6024E+06	3.1084E+06
Te-127m	2.6282E-10	2.7863E-17	1.3212E+08	5.6244E+05
Te-129	8.7830E-10	4.1939E-20	1.9579E+05	2.5247E+06
Te-129m	8.4990E-10	2.8212E-17	1.3170E+08	1.8311E+06
Te-131m	1.8759E-09	2.3525E-18	1.0814E+07	4.9548E+06
Te-132	1.8943E-08	6.2396E-17	2.8466E+08	4.3862E+07
I-131	1.1169E-04	9.0090E-13	4.1415E+12	1.5576E+11
I-132	9.7184E-06	9.4150E-16	4.2954E+09	2.1588E+10
I-133	1.1327E-04	9.9989E-14	4.5274E+11	1.9706E+11
I-135	1.9227E-05	5.4748E-15	2.4422E+10	6.3141E+10
Xe-133	3.5038E+00	1.8719E-08	8.4758E+16	4.2101E+15
Xe-133m	9.0294E-02	2.0510E-10	9.2866E+14	1.1377E+14
Xe-135	3.2518E-01	1.2734E-10	5.6803E+14	6.3921E+14
Xe-135m	1.6609E-05	1.8245E-16	8.1386E+08	1.9714E+11
Cs-134	2.4214E-08	1.8715E-14	8.4109E+10	5.8215E+07
Cs-136	7.0138E-09	9.5698E-17	4.2376E+08	1.7207E+07
Cs-137	1.8815E-08	2.1631E-13	9.5085E+11	4.5219E+07
Ba-140	1.1637E-08	1.5895E-16	6.8373E+08	2.5402E+07
La-140	3.9474E-09	7.1019E-18	3.0549E+07	5.4838E+06
Ce-141	2.8481E-10	9.9955E-18	4.2691E+07	6.1407E+05
Ce-143	1.7088E-10	2.5732E-19	1.0837E+06	4.4251E+05
Ce-144	2.3195E-10	7.2722E-17	3.0412E+08	4.9677E+05
Pr-143	1.1580E-10	1.7197E-18	7.2421E+06	2.4436E+05
Nd-147	4.2404E-11	5.2416E-19	2.1473E+06	9.2864E+04
Np-239	2.4650E-09	1.0625E-17	2.6773E+07	5.8867E+06
Pu-238	7.2251E-13	4.2204E-17	1.0679E+08	1.5460E+03
Pu-239	7.3075E-14	1.1757E-15	2.9624E+09	1.5620E+02
Pu-240	1.2870E-13	5.6507E-17	1.4179E+08	2.7540E+02
Pu-241	2.8590E-11	2.8910E-16	7.2241E+08	6.1181E+04
Am-241	1.6294E-14	4.7561E-18	1.1885E+07	3.4765E+01
Cm-242	4.4250E-12	1.3368E-18	3.3265E+06	9.4835E+03
Cm-244	2.9380E-13	3.5894E-18	8.8589E+06	6.2870E+02

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	6.7116E+17	0.0000E+00	
Elemental I (atoms)	4.8682E+11	0.0000E+00	
Organic I (atoms)	4.1317E+12	0.0000E+00	
Aerosols (kg)	3.6521E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.2157E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3340E-14	
Total I (Ci)		2.5390E-04	

Deposition Recirculating

Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0679E+12
Organic I (atoms)	0.0000E+00	4.0290E+12
Aerosols (kg)	0.0000E+00	9.5574E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7702E+18
Elemental I (atoms)	2.1343E+13	2.1559E+11
Organic I (atoms)	9.2050E+13	9.2980E+11
Aerosols (kg)	9.1834E-12	9.2762E-14

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CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2781E+17
Elemental I (atoms)	0.0000E+00	3.9923E+12
Organic I (atoms)	0.0000E+00	1.7219E+13
Aerosols (kg)	0.0000E+00	1.7178E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.4218E+18	0.0000E+00
Elemental I (atoms)	2.5569E+12	0.0000E+00
Organic I (atoms)	9.6466E+12	0.0000E+00
Aerosols (kg)	2.2883E-12	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4926E-01	2.2408E+00	2.1786E-01
Accumulated dose (rem)	2.3645E-01	2.8268E+00	3.2319E-01

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7572E-03	5.6798E-02	7.4961E-03
Accumulated dose (rem)	1.4175E-02	8.7234E-02	1.6857E-02

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2691E-02	3.3208E-01	2.3114E-02
Accumulated dose (rem)	2.6535E-02	5.0784E-01	4.7965E-02

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	1.7791E-07	2.1618E-17	1.5316E+08	7.0884E+13
Kr-85	2.5370E-02	6.4724E-08	4.5856E+17	2.4714E+14
Kr-88	9.1858E-11	7.3256E-21	5.0132E+04	5.6029E+13
Rb-86	3.5330E-11	4.3421E-19	3.0405E+06	1.1272E+06
Rb-88	2.6717E-10	2.2132E-21	1.5145E+04	4.3657E+13
Sr-89	1.8775E-09	6.4624E-17	4.3728E+08	4.1459E+07
Sr-90	2.1213E-10	1.5551E-15	1.0406E+10	4.5329E+06
Y-90	1.3717E-10	2.5213E-19	1.6871E+06	1.4026E+06
Y-91	2.9573E-11	1.2059E-18	7.9804E+06	6.2635E+05
Zr-95	2.8103E-11	1.3082E-18	8.2926E+06	6.1627E+05
Nb-95	2.8906E-11	7.3922E-19	4.6860E+06	6.1803E+05
Mo-99	1.3517E-10	2.8183E-19	1.7143E+06	5.4696E+06
Tc-99m	1.3858E-10	2.6354E-20	1.6031E+05	5.1855E+06
Ru-103	2.9887E-10	9.2603E-18	5.4142E+07	6.6623E+06
Ru-106	1.3233E-10	3.9555E-17	2.2472E+08	2.8402E+06
Rh-105	3.7392E-11	4.4301E-20	2.5408E+05	2.7212E+06
Sb-127	1.7959E-10	6.7249E-19	3.1888E+06	6.0142E+06
Te-127	2.3311E-10	8.8330E-20	4.1884E+05	6.6163E+06
Te-127m	6.2035E-11	6.5767E-18	3.1185E+07	1.3317E+06
Te-129	1.6405E-10	7.8335E-21	3.6569E+04	4.1541E+06
Te-129m	1.8972E-10	6.2976E-18	2.9399E+07	4.2582E+06
Te-131m	8.4389E-11	1.0583E-19	4.8651E+05	7.9414E+06
Te-132	2.3760E-09	7.8261E-18	3.5705E+07	8.6650E+07
I-131	5.6442E-05	4.5527E-13	2.0929E+12	6.9670E+11
I-132	2.8823E-06	2.7923E-16	1.2739E+09	6.1553E+10
I-133	6.7181E-06	5.9305E-15	2.6853E+10	4.2392E+11
I-135	6.6080E-09	1.8816E-18	8.3937E+06	7.6689E+10
Xe-133	1.8637E+00	9.9564E-09	4.5082E+16	2.2822E+16
Xe-133m	2.7882E-02	6.3331E-11	2.8676E+14	4.8492E+14
Xe-135	1.0542E-03	4.1279E-13	1.8414E+12	9.9613E+14
Xe-135m	4.0618E-09	4.4619E-20	1.9904E+05	2.1533E+11
Cs-134	4.0839E-09	3.1565E-15	1.4186E+10	1.1863E+08
Cs-136	1.0121E-09	1.3809E-17	6.1148E+07	3.3650E+07
Cs-137	3.1815E-09	3.6576E-14	1.6078E+11	9.2213E+07

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Ba-140	2.3469E-09	3.2058E-17	1.3790E+08	5.7221E+07
La-140	2.0644E-09	3.7141E-18	1.5976E+07	2.4693E+07
Ce-141	6.3445E-11	2.2267E-18	9.5101E+06	1.4266E+06
Ce-143	8.9426E-12	1.3466E-20	5.6710E+04	7.2755E+05
Ce-144	5.4672E-11	1.7141E-17	7.1686E+07	1.1749E+06
Pr-143	2.6482E-11	3.9327E-19	1.6562E+06	5.8265E+05
Nd-147	8.3312E-12	1.0298E-19	4.2189E+05	2.0754E+05
Np-239	2.4204E-10	1.0433E-18	2.6289E+06	1.0970E+07
Pu-238	1.7161E-13	1.0024E-17	2.5364E+07	3.6656E+03
Pu-239	1.7443E-14	2.8063E-16	7.0711E+08	3.7111E+02
Pu-240	3.0559E-14	1.3417E-17	3.3667E+07	6.5291E+02
Pu-241	6.7858E-12	6.8618E-17	1.7146E+08	1.4503E+05
Am-241	3.9576E-15	1.1552E-18	2.8867E+06	8.3029E+01
Cm-242	1.0373E-12	3.1338E-19	7.7983E+05	2.2391E+04
Cm-244	6.9737E-14	8.5199E-19	2.1028E+06	1.4903E+03

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump	
Noble gases (atoms)	5.0393E+17	0.0000E+00	
Elemental I (atoms)	2.7990E+10	0.0000E+00	
Organic I (atoms)	2.0925E+12	0.0000E+00	
Aerosols (kg)	4.1993E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.3369E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.4078E-15	
Total I (Ci)		6.6050E-05	

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7491E+12
Organic I (atoms)	0.0000E+00	2.0054E+13
Aerosols (kg)	0.0000E+00	1.4901E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.4312E+18
Elemental I (atoms)	3.0927E+13	3.1239E+11
Organic I (atoms)	3.6158E+14	3.6524E+12
Aerosols (kg)	1.6703E-11	1.6872E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5613E+18
Elemental I (atoms)	0.0000E+00	5.7851E+12
Organic I (atoms)	0.0000E+00	6.7636E+13
Aerosols (kg)	0.0000E+00	3.1245E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	9.4643E+18	0.0000E+00
Elemental I (atoms)	4.1879E+12	0.0000E+00
Organic I (atoms)	4.8015E+13	0.0000E+00
Aerosols (kg)	3.5678E-12	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1777E-01	7.3642E+00	5.4222E-01
Accumulated dose (rem)	5.5423E-01	1.0191E+01	8.6540E-01

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5516E-03	5.4087E-02	5.2000E-03
Accumulated dose (rem)	1.7727E-02	1.4132E-01	2.2057E-02

CR Doses:

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Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3334E-02	5.4827E-01	3.0042E-02
Accumulated dose (rem)	3.9870E-02	1.0561E+00	7.8006E-02

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	1.7046E-02	4.3487E-08	3.0810E+17	1.8305E+15
Rb-86	6.5881E-12	8.0967E-20	5.6697E+05	2.2036E+06
Sr-89	7.3094E-10	2.5160E-17	1.7024E+08	1.2443E+08
Sr-90	1.1780E-10	8.6361E-16	5.7786E+09	1.5583E+07
Y-90	1.1842E-10	2.1766E-19	1.4564E+06	1.1802E+07
Y-91	1.2072E-11	4.9224E-19	3.2575E+06	1.9605E+06
Zr-95	1.1796E-11	5.4907E-19	3.4806E+06	1.9011E+06
Nb-95	1.4378E-11	3.8304E-19	2.4281E+06	2.0858E+06
Ru-103	1.0508E-10	3.2558E-18	1.9036E+07	1.9286E+07
Ru-106	7.0099E-11	2.0953E-17	1.1904E+08	9.5806E+06
Sb-127	9.2608E-13	3.4678E-21	1.6444E+04	8.1737E+06
Te-127	3.1291E-11	1.1855E-20	5.6214E+04	1.1577E+07
Te-127m	2.9802E-11	3.1595E-18	1.4982E+07	4.3664E+06
Te-129	5.3375E-11	2.5486E-21	1.1898E+04	9.1990E+06
Te-129m	6.1725E-11	2.0490E-18	9.5652E+06	1.2005E+07
Te-132	5.2366E-12	1.7249E-20	7.8693E+04	1.1120E+08
I-131	4.0000E-06	3.2265E-14	1.4832E+11	2.1362E+12
I-132	7.3940E-09	7.1632E-19	3.2680E+06	1.0023E+11
Xe-133	4.0942E-02	2.1873E-10	9.9038E+14	5.7475E+16
Xe-133m	5.8191E-06	1.3218E-14	5.9848E+10	7.1677E+14
Cs-134	1.9532E-09	1.5096E-15	6.7843E+09	3.0569E+08
Cs-136	1.2526E-10	1.7091E-18	7.5678E+06	6.0052E+07
Cs-137	1.5558E-09	1.7887E-14	7.8627E+10	2.3948E+08
Ba-140	3.1728E-10	4.3339E-18	1.8642E+07	1.2475E+08
La-140	3.6856E-10	6.6308E-19	2.8522E+06	9.8871E+07
Ce-141	2.0272E-11	7.1147E-19	3.0387E+06	3.9971E+06
Ce-144	2.8545E-11	8.9497E-18	3.7428E+07	3.9407E+06
Pr-143	4.0475E-12	6.0106E-20	2.5312E+05	1.3941E+06
Nd-147	8.9781E-13	1.1098E-20	4.5465E+04	4.2863E+05
Pu-238	9.5718E-14	5.5911E-18	1.4147E+07	1.2624E+04
Pu-239	9.7393E-15	1.5669E-16	3.9482E+08	1.2834E+03
Pu-240	1.7001E-14	7.4645E-18	1.8730E+07	2.2462E+03
Pu-241	3.7624E-12	3.8046E-17	9.5069E+07	4.9825E+05
Am-241	2.6307E-15	7.6790E-19	1.9188E+06	3.0857E+02
Cm-242	5.1666E-13	1.5608E-19	3.8840E+05	7.3716E+04
Cm-244	3.8687E-14	4.7264E-19	1.1665E+06	5.1213E+03

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	3.0909E+17	0.0000E+00
Elemental I (atoms)	6.8960E+08	0.0000E+00
Organic I (atoms)	1.4761E+11	0.0000E+00
Aerosols (kg)	2.0549E-14	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.7076E-16
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.7078E-16
Total I (Ci)		4.0074E-06

Time (h) = 720.0000	Deposition	Recirculating
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.9914E+12
Organic I (atoms)	0.0000E+00	6.2159E+13
Aerosols (kg)	0.0000E+00	3.0311E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Time (h) = 720.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5339E+19
Elemental I (atoms)	3.5004E+13	3.5357E+11
Organic I (atoms)	1.0842E+15	1.0951E+13
Aerosols (kg)	4.3126E-11	4.3562E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Time (h) = 720.0000	Pathway	
	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	1.0248E+19
Elemental I (atoms)	0.0000E+00	6.5477E+12
Organic I (atoms)	0.0000E+00	2.0280E+14
Aerosols (kg)	0.0000E+00	8.0670E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	Transported
Time (h) = 720.0000	Filtered	
Noble gases (atoms)	6.5218E+19	0.0000E+00
Elemental I (atoms)	4.7680E+12	0.0000E+00
Organic I (atoms)	1.4883E+14	0.0000E+00
Aerosols (kg)	7.2575E-12	0.0000E+00

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I-131 Summary

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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4751E-02
0.017	1.8470E+05	0.0000E+00	3.1395E+01
0.083	9.2044E+05	0.0000E+00	7.8060E+02
0.333	3.6817E+06	0.0000E+00	1.2120E+03
0.500	6.8012E+05	0.0000E+00	1.3959E+03
0.750	9.4093E+05	0.0000E+00	1.5615E+03
1.000	9.4889E+05	0.0000E+00	1.7377E+03
1.400	9.5870E+05	0.0000E+00	2.0221E+03
1.700	9.6603E+05	0.0000E+00	2.2371E+03
2.000	9.7334E+05	0.0000E+00	2.4536E+03
2.250	5.9162E+04	4.0983E+04	2.5052E+03
2.400	6.0403E+04	3.7668E+04	2.5135E+03
2.700	6.0349E+04	3.7597E+04	2.5299E+03
3.000	6.0272E+04	3.7549E+04	2.5463E+03
3.300	6.0196E+04	3.7501E+04	2.5627E+03
3.600	6.0119E+04	3.7454E+04	2.5790E+03
3.900	6.0043E+04	3.7406E+04	2.5953E+03
4.000	6.0017E+04	3.7390E+04	2.6007E+03
4.300	5.9941E+04	3.7343E+04	2.6169E+03
4.600	5.9865E+04	3.7295E+04	2.6331E+03
4.900	5.9789E+04	3.7248E+04	2.6493E+03
5.200	5.9713E+04	3.7200E+04	2.6654E+03
5.500	5.9637E+04	3.7153E+04	2.6814E+03
5.800	5.9561E+04	3.7106E+04	2.6974E+03
6.100	5.9485E+04	3.7058E+04	2.7134E+03
6.400	5.9409E+04	3.7011E+04	2.7293E+03
6.700	5.9334E+04	3.6964E+04	2.7452E+03
7.000	5.9258E+04	3.6917E+04	2.7611E+03
7.300	5.9183E+04	3.6870E+04	2.7769E+03
7.600	5.9107E+04	3.6823E+04	2.7927E+03
7.900	5.9032E+04	3.6776E+04	2.8084E+03
8.000	5.9007E+04	3.6761E+04	2.8136E+03
8.300	5.8932E+04	3.6714E+04	2.8293E+03
8.600	5.8857E+04	3.6667E+04	2.8449E+03
8.900	5.8782E+04	3.6621E+04	2.8605E+03
9.200	5.8707E+04	3.6574E+04	2.8761E+03
9.500	5.8632E+04	3.6527E+04	2.8916E+03
9.800	5.8558E+04	3.6481E+04	2.9071E+03
10.100	5.8483E+04	3.6434E+04	2.9225E+03
10.400	5.8409E+04	3.6388E+04	2.9379E+03
16.000	5.7035E+04	3.5532E+04	3.2179E+03
24.000	5.5126E+04	3.4343E+04	3.5946E+03
96.000	4.1555E+04	2.5888E+04	4.3816E+03
720.000	3.5475E+03	2.2101E+03	1.7755E+03

	Environment	CR	MSL Volume 1
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	2.0479E-20	1.4208E-23	1.1306E-04
0.017	5.0189E-13	3.4804E-16	1.0211E-01
0.083	1.5401E-09	2.8040E-13	2.5355E+00
0.333	1.5442E-06	2.7672E-10	4.0357E+01
0.500	1.1351E-05	2.0132E-09	5.6085E+01

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0.750	7.1867E-05	1.2518E-08	6.9778E+01	
1.000	2.3990E-04	4.0998E-08	8.4188E+01	
1.400	9.1980E-04	1.5256E-07	1.0698E+02	
1.700	1.9654E-03	3.1901E-07	1.2387E+02	
2.000	3.6995E-03	5.8804E-07	1.4057E+02	
2.250	5.8502E-03	7.8710E-07	1.4171E+02	
2.400	7.5188E-03	9.4256E-07	1.4094E+02	
2.700	1.1863E-02	1.3461E-06	1.3942E+02	
3.000	1.7764E-02	1.8874E-06	1.3793E+02	
3.300	2.5473E-02	2.5808E-06	1.3647E+02	
3.600	3.5225E-02	3.4381E-06	1.3503E+02	
3.900	4.7249E-02	4.4685E-06	1.3362E+02	
4.000	5.1800E-02	4.8517E-06	1.3316E+02	
4.300	6.7186E-02	6.1234E-06	1.3178E+02	
4.600	8.5331E-02	7.5816E-06	1.3043E+02	
4.900	1.0643E-01	9.2290E-06	1.2910E+02	
5.200	1.3065E-01	1.1067E-05	1.2779E+02	
5.500	1.5817E-01	1.3095E-05	1.2651E+02	
5.800	1.8916E-01	1.5313E-05	1.2526E+02	
6.100	2.2375E-01	1.7719E-05	1.2402E+02	
6.400	2.6210E-01	2.0308E-05	1.2281E+02	
6.700	3.0433E-01	2.3078E-05	1.2162E+02	
7.000	3.5057E-01	2.6023E-05	1.2045E+02	
7.300	4.0093E-01	2.9140E-05	1.1930E+02	
7.600	4.5551E-01	3.2423E-05	1.1817E+02	
7.900	5.1442E-01	3.5865E-05	1.1706E+02	
8.000	5.3503E-01	3.7047E-05	1.1670E+02	
8.300	5.9984E-01	3.6021E-05	1.1562E+02	
8.600	6.6917E-01	3.5295E-05	1.1456E+02	
8.900	7.4310E-01	3.4839E-05	1.1351E+02	
9.200	8.2168E-01	3.4630E-05	1.1249E+02	
9.500	9.0498E-01	3.4643E-05	1.1148E+02	
9.800	9.9305E-01	3.4860E-05	1.1049E+02	
10.100	1.0859E+00	3.5261E-05	1.0952E+02	
10.400	1.1837E+00	3.5828E-05	1.0857E+02	
16.000	3.9150E+00	6.3028E-05	9.3534E+01	
24.000	1.0602E+01	1.1169E-04	7.8917E+01	
96.000	5.7012E+01	5.6442E-05	4.7139E+01	
720.000	2.1962E+02	4.0000E-06	3.8891E+00	

Time (hr)	MSL Volume 2	MSL Volume 3
	I-131 (Curies)	I-131 (Curies)
0.000	1.2796E-09	6.0812E-14
0.017	3.4697E-05	4.9564E-08
0.083	4.2748E-03	3.0455E-05
0.333	2.6682E-01	7.5983E-03
0.500	7.5348E-01	3.5751E-02
0.750	1.6101E+00	1.3348E-01
1.000	2.6053E+00	3.0640E-01
1.400	4.4579E+00	7.6153E-01
1.700	6.0318E+00	1.2625E+00
2.000	7.7432E+00	1.9116E+00
2.250	9.1782E+00	2.5689E+00
2.400	9.9770E+00	3.0104E+00
2.700	1.1435E+01	3.9849E+00
3.000	1.2724E+01	5.0631E+00
3.300	1.3860E+01	6.2252E+00
3.600	1.4859E+01	7.4534E+00
3.900	1.5734E+01	8.7324E+00
4.000	1.6001E+01	9.1676E+00
4.300	1.6732E+01	1.0494E+01
4.600	1.7366E+01	1.1841E+01
4.900	1.7915E+01	1.3200E+01
5.200	1.8387E+01	1.4563E+01
5.500	1.8790E+01	1.5921E+01
5.800	1.9132E+01	1.7269E+01
6.100	1.9418E+01	1.8600E+01
6.400	1.9654E+01	1.9910E+01
6.700	1.9846E+01	2.1196E+01
7.000	1.9999E+01	2.2453E+01
7.300	2.0116E+01	2.3679E+01
7.600	2.0203E+01	2.4872E+01
7.900	2.0261E+01	2.6029E+01
8.000	2.0274E+01	2.6407E+01

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8.300	2.0300E+01	2.7516E+01
8.600	2.0305E+01	2.8587E+01
8.900	2.0290E+01	2.9620E+01
9.200	2.0259E+01	3.0613E+01
9.500	2.0214E+01	3.1568E+01
9.800	2.0155E+01	3.2483E+01
10.100	2.0086E+01	3.3359E+01
10.400	2.0006E+01	3.4197E+01
16.000	1.7771E+01	4.3659E+01
24.000	1.4827E+01	4.4747E+01
96.000	8.4986E+00	2.5970E+01
720.000	6.9612E-01	2.0484E+00

Cumulative Dose Summary
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Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	3.1908E-14	3.3045E-15	4.3438E-15	4.4986E-16	2.4512E-16	8.9312E-18
0.083	9.7842E-11	9.6576E-12	1.3320E-11	1.3147E-12	7.1874E-13	4.0986E-14
0.333	9.7820E-08	8.3670E-09	1.3317E-08	1.1390E-09	2.7555E-09	1.4593E-10
0.500	7.1773E-07	5.7848E-08	9.7707E-08	7.8751E-09	3.0456E-08	1.5655E-09
0.750	4.5319E-06	3.7215E-07	6.1695E-07	5.0662E-08	3.0379E-07	1.5718E-08
1.000	1.5090E-05	1.4171E-06	2.0542E-06	1.9292E-07	1.3974E-06	7.7564E-08
1.400	5.7667E-05	7.5174E-06	7.8505E-06	1.0234E-06	7.6416E-06	5.2786E-07
1.700	1.2288E-04	2.0154E-05	1.6729E-05	2.7436E-06	1.9679E-05	1.6572E-06
2.000	2.3066E-04	4.5925E-05	3.1400E-05	6.2520E-06	4.2954E-05	4.3664E-06
2.250	3.6390E-04	8.2772E-05	4.9539E-05	1.1268E-05	7.2637E-05	8.4615E-06
2.400	4.6703E-04	1.1370E-04	6.3579E-05	1.5479E-05	9.5120E-05	1.1871E-05
2.700	7.3488E-04	2.0013E-04	1.0004E-04	2.7245E-05	1.5410E-04	2.1686E-05
3.000	1.0976E-03	3.2498E-04	1.4942E-04	4.4241E-05	2.3733E-04	3.7175E-05
3.300	1.5698E-03	4.9441E-04	2.1370E-04	6.7306E-05	3.5219E-04	6.0471E-05
3.600	2.1653E-03	7.1355E-04	2.9477E-04	9.7138E-05	5.0663E-04	9.3913E-05
3.900	2.8972E-03	9.8657E-04	3.9441E-04	1.3431E-04	7.0911E-04	1.3994E-04
4.000	3.1737E-03	1.0901E-03	4.3204E-04	1.4840E-04	7.8878E-04	1.5850E-04
4.300	4.1064E-03	1.4398E-03	5.5902E-04	1.9601E-04	1.0690E-03	2.2507E-04
4.600	5.2030E-03	1.8496E-03	7.0831E-04	2.5179E-04	1.4181E-03	3.0977E-04
4.900	6.4741E-03	2.3207E-03	8.8135E-04	3.1593E-04	1.8452E-03	4.1476E-04
5.200	7.9296E-03	2.8538E-03	1.0795E-03	3.8850E-04	2.3595E-03	5.4199E-04
5.500	9.5785E-03	3.4490E-03	1.3040E-03	4.6953E-04	2.9701E-03	6.9321E-04
5.800	1.1429E-02	4.1058E-03	1.5559E-03	5.5894E-04	3.6862E-03	8.6991E-04
6.100	1.3490E-02	4.8235E-03	1.8365E-03	6.5664E-04	4.5166E-03	1.0733E-03
6.400	1.5768E-02	5.6007E-03	2.1466E-03	7.6245E-04	5.4700E-03	1.3044E-03
6.700	1.8270E-02	6.4361E-03	2.4872E-03	8.7617E-04	6.5548E-03	1.5640E-03
7.000	2.1002E-02	7.3280E-03	2.8592E-03	9.9759E-04	7.7792E-03	1.8525E-03
7.300	2.3970E-02	8.2744E-03	3.2632E-03	1.1264E-03	9.1510E-03	2.1702E-03
7.600	2.7178E-02	9.2736E-03	3.6999E-03	1.2625E-03	1.0678E-02	2.5173E-03
7.900	3.0632E-02	1.0323E-02	4.1700E-03	1.4054E-03	1.2367E-02	2.8935E-03
8.000	3.1838E-02	1.0684E-02	4.3343E-03	1.4545E-03	1.2968E-02	3.0254E-03
8.300	3.5625E-02	1.1798E-02	4.5127E-03	1.5513E-03	1.4769E-02	3.4226E-03
8.600	3.9666E-02	1.2958E-02	4.7030E-03	1.6519E-03	1.6522E-02	3.8087E-03
8.900	4.3964E-02	1.4161E-02	4.9055E-03	1.7562E-03	1.8242E-02	4.1814E-03
9.200	4.8521E-02	1.5406E-02	5.1202E-03	1.8639E-03	1.9942E-02	4.5415E-03
9.500	5.3341E-02	1.6691E-02	5.3472E-03	1.9749E-03	2.1632E-02	4.8907E-03
9.800	5.8424E-02	1.8013E-02	5.5867E-03	2.0890E-03	2.3324E-02	5.2310E-03
10.100	6.3773E-02	1.9371E-02	5.8386E-03	2.2059E-03	2.5027E-02	5.5641E-03
10.400	6.9389E-02	2.0763E-02	6.1032E-03	2.3257E-03	2.6748E-02	5.8918E-03
16.000	2.2336E-01	5.2023E-02	1.3356E-02	4.9767E-03	6.8985E-02	1.2830E-02
24.000	5.8593E-01	1.0532E-01	3.0436E-02	9.3607E-03	1.7576E-01	2.4851E-02
96.000	2.8268E+00	3.2319E-01	8.7234E-02	1.6857E-02	5.0784E-01	4.7965E-02
720.000	1.0191E+01	8.6540E-01	1.4132E-01	2.2057E-02	1.0561E+00	7.8006E-02

Worst Two-Hour Doses
#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
16.0	1.0526E-02	9.0644E-02	1.3325E-02

CALCULATION NO. H21C-106

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NMP2 MSL A MSLB.out

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 13:32:21
#####
```

```
#####
File information
#####
```

```
Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2 MSL A MSLB.psf
Inventory file   = c:\radtrad3.03\nmp2\nmp2.nif
Release file     = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
```

Radtrad 3.03 4/15/2001
 NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
 Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory

Nuclide Inventory File:
 c:\radtrad3.03\nmp2\nmp2.nif

Plant Power Level:
 4.0670E+03

Compartments:

8

Compartment 1:

DW

3

3.0620E+05

1

0

0

0

0

Compartment 2:

WW

3

1.9080E+05

0

0

0

0

0

Compartment 3:

Dummy

3

1.0000E+02

0

0

0

0

0

Compartment 4:

Environment

2

0.0000E+00

0

0

0

0

0

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---------------------------------	-------------------	---------------------

Compartment 5:

CR

1

3.8100E+05

0

0

1

0

0

Compartment 6:

MSL Volume 1

3

1.0000E+00

0

0

0

0

0

Compartment 7:

MSL Volume 2

3

5.9390E+01

0

0

0

0

0

Compartment 8:

MSL Volume 3

3

4.2841E+02

0

0

0

0

0

Pathways:

14

Pathway 1:

DW to WW

1

2

4

Pathway 2:

WW to DW

2

1

4

Pathway 3:

DW Leakage to RB (Released to Dummy)

1

3

2

Pathway 4:

WW Leakage to RB (Released to Dummy)

2

3

2

Pathway 5:

DW Bypass Pathway 5 to Environment (Released to Dummy)

1

3

2

Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2

3

2

Pathway 7:

DW to MSL Volume 1

1

6

2

Pathway 8:

CALCULATION NO. H21C-106

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MSL Volume 1 to MSL Volume 2

6
7
2

Pathway 9:

MSL Volume 2 to MSL Volume 3

7
8
2

Pathway 10:

MSL Volume 3 to Environment

8
4
2

Pathway 11:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 12:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 13:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 14:

DW to Dummy MSL flows all other steam lines

1
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

8

Compartment 1:

0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00

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7.2000E+02 0.0000E+00

1

0.0000E+00

0

0

0

0

0

Compartment 2:

0

1

0

0

0

0

0

0

0

Compartment 3:

0

1

0

0

0

0

0

0

0

Compartment 4:

0

1

0

0

0

0

0

0

0

Compartment 5:

1

1

0

0

0

0

1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0

0

Compartment 6:

0

1

0

0

0

0

0

0

0

Compartment 7:

0

1

0

0

0

0

0

0

0

Compartment 8:

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```

0
1
0
0
0
0
0
0
0
0
Pathways:
14
Pathway 1:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  8.9710E+04
7.2000E+02  0.0000E+00
0
Pathway 2:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  1.4400E+05
7.2000E+02  0.0000E+00
0
Pathway 3:
0
0
0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00

```

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 823
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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5

0.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5

0.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 7:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 8:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0

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```

0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00    3.3800E-01    0.0000E+00    0.0000E+00    0.0000E+00
2.4000E+01    1.6900E-01    0.0000E+00    0.0000E+00    0.0000E+00
7.2000E+02    0.0000E+00    0.0000E+00    0.0000E+00    0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00    8.3300E-01    9.9740E+01    5.0000E+01    0.0000E+00
2.4000E+01    4.1700E-01    9.9740E+01    5.0000E+01    0.0000E+00
7.2000E+02    0.0000E+00    0.0000E+00    0.0000E+00    0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00    7.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
1.6700E-02    1.3500E+03    9.9000E+01    9.9000E+01    9.9000E+01
7.2000E+02    0.0000E+00    0.0000E+00    0.0000E+00    0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
7
0.0000E+00    2.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
2.0000E+00    2.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
4.0000E+00    2.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
8.0000E+00    2.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
1.6000E+01    2.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
2.4000E+01    2.5000E+02    0.0000E+00    0.0000E+00    0.0000E+00
7.2000E+02    0.0000E+00    0.0000E+00    0.0000E+00    0.0000E+00
0
0
0

```

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0
0
0
Pathway 13:
0
0
0
0
0
1
3
0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Pathway 14:
0
0
0
0
0
1
3
0.0000E+00 1.0140E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 5.0700E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0

Dose Locations:

3
Location 1:
EAB
4
1
2
0.0000E+00 1.1900E-04
7.2000E+02 0.0000E+00
1
2
0.0000E+00 3.5000E-04
7.2000E+02 0.0000E+00
0

Location 2:

LPZ
4
1
5
0.0000E+00 1.6200E-05
8.0000E+00 1.0900E-05
2.4000E+01 4.5900E-06
9.6000E+01 1.3300E-06
7.2000E+02 0.0000E+00
1
4
0.0000E+00 3.5000E-04
8.0000E+00 1.8000E-04
2.4000E+01 2.3000E-04
7.2000E+02 0.0000E+00
0

Location 3:

CR
5
0
1
2

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```
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o670
1
1
1
0
0
End of Scenario File
```

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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 13:32:21
#####
```

```
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
Plant Power Level = 4.0670E+03 MWth

Number of compartments = 8

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSL Volume 1

Exit Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Inlet Pathway Number 14: DW to Dummy MSL flows all other steam lines

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 10: MSL Volume 3 to Environment

Inlet Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Exit Pathway Number 11: CR Filtered Intake (Pathway 9)

Exit Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 11: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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Name: MSL Volume 1
Compartment volume = 1.0000E+00 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSL Volume 1
Exit Pathway Number 8: MSL Volume 1 to MSL Volume 2

Compartment number 7
Name: MSL Volume 2
Compartment volume = 5.9390E+01 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSL Volume 1 to MSL Volume 2
Exit Pathway Number 9: MSL Volume 2 to MSL Volume 3

Compartment number 8
Name: MSL Volume 3
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 9: MSL Volume 2 to MSL Volume 3
Exit Pathway Number 10: MSL Volume 3 to Environment

Total number of pathways = 14

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 RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 13:32:21
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSL Volume 1

Compartment number 7: MSL Volume 2

Compartment number 8: MSL Volume 3

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSL Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSL Volume 1 to MSL Volume 2

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSL Volume 2 to MSL Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: MSL Volume 3 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.3300E-01	9.9740E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9740E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 12: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: DW to Dummy MSL flows all other steam lines

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0140E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.0700E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 4/06/2020 at 13:32:21
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#####
Dose, Detailed model and Detailed Inventory Output
#####
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.2203E-13	1.0871E-11	1.0767E-12	
Accumulated dose (rem)	7.2203E-13	1.0871E-11	1.0767E-12	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.8293E-14	1.4799E-12	1.4657E-13	
Accumulated dose (rem)	9.8293E-14	1.4799E-12	1.4657E-13	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6531E-16	8.3786E-14	3.0993E-15	
Accumulated dose (rem)	3.6531E-16	8.3786E-14	3.0993E-15	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-85	7.1155E-14	1.8153E-19	1.2861E+06	7.0136E-02	
Xe-133	8.7050E-12	4.6505E-20	2.1057E+05	8.5805E+00	
Cs-137	1.9504E-15	2.2423E-20	9.8563E+04	1.9224E-03	

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	1.5105E+06	0.0000E+00	
Elemental I (atoms)	4.9767E+03	0.0000E+00	
Organic I (atoms)	3.0783E+02	0.0000E+00	
Aerosols (kg)	2.4486E-20	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.5511E-23	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.9865E-23	
Total I (Ci)		1.0455E-12	

	Deposition	Recirculating
Time (h) =	0.0167	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	0.0167
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 1.1334E+06
Organic I (atoms)	0.0000E+00 3.7348E+03
Aerosols (kg)	0.0000E+00 2.3102E+02
	0.0000E+00 1.8373E-20

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) =	0.0167	
Noble gases (atoms)	0.0000E+00	3.7779E+05
Elemental I (atoms)	0.0000E+00	1.2449E+03
Organic I (atoms)	0.0000E+00	7.7006E+01
Aerosols (kg)	0.0000E+00	6.1242E-21

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) =	0.0167	
Noble gases (atoms)	7.4005E+02	0.0000E+00
Elemental I (atoms)	2.4387E+00	0.0000E+00
Organic I (atoms)	1.5085E-01	0.0000E+00
Aerosols (kg)	1.1997E-23	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0833		
Delta dose (rem)	1.6914E-09	2.7281E-08	2.5812E-09
Accumulated dose (rem)	1.6921E-09	2.7292E-08	2.5823E-09

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0833		
Delta dose (rem)	2.3026E-10	3.7139E-09	3.5139E-10
Accumulated dose (rem)	2.3036E-10	3.7154E-09	3.5154E-10

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0833		
Delta dose (rem)	4.7624E-12	2.0712E-10	1.1579E-11
Accumulated dose (rem)	4.7628E-12	2.0721E-10	1.1582E-11

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.0833			
Kr-83m	2.4286E-09	1.1964E-19	8.6806E+05	6.2460E+03
Kr-85m	5.5691E-09	6.7672E-19	4.7945E+06	1.4280E+04
Kr-85	2.8516E-10	7.2751E-16	5.1543E+09	7.2963E+02
Kr-87	1.0876E-08	3.8398E-19	2.6579E+06	2.8039E+04
Kr-88	1.5153E-08	1.2084E-18	8.2698E+06	3.8902E+04
Rb-88	6.7574E-10	5.5977E-21	3.8307E+04	8.4539E+02
I-131	7.8150E-11	6.3037E-19	2.8978E+06	2.0072E+02
I-132	1.1134E-10	1.0787E-20	4.9212E+04	2.8702E+02
I-133	1.6164E-10	1.4269E-19	6.4610E+05	4.1534E+02
I-134	1.7410E-10	6.5261E-21	2.9329E+04	4.5207E+02
I-135	1.5185E-10	4.3240E-20	1.9289E+05	3.9057E+02
Xe-133	3.4884E-08	1.8636E-16	8.4383E+08	8.9258E+04
Xe-133m	1.0698E-09	2.4300E-18	1.1003E+07	2.7375E+03
Xe-135	1.4747E-08	5.7747E-18	2.5760E+07	3.7704E+04
Xe-135m	6.5323E-09	7.1757E-20	3.2010E+05	1.7069E+04
Xe-138	2.4524E-08	2.5558E-19	1.1153E+06	6.5359E+04
Cs-134	1.6576E-12	1.2811E-18	5.7576E+06	4.2571E+00
Cs-136	5.0566E-13	6.8993E-21	3.0550E+04	1.2987E+00
Cs-137	1.2869E-12	1.4795E-17	6.5034E+07	3.3051E+00

CR Transport Group Inventory:

	Atmosphere	Sump
Time (h) =	0.0833	
Noble gases (atoms)	6.0529E+09	0.0000E+00
Elemental I (atoms)	3.2786E+06	0.0000E+00
Organic I (atoms)	2.0280E+05	0.0000E+00
Aerosols (kg)	1.6162E-17	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0223E-20
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3067E-20
Total I (Ci)		6.7708E-10

	Deposition Surfaces	Recirculating Filter
Time (h) =	0.0833	
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.9988E+03
Organic I (atoms)	0.0000E+00	3.0920E+02
Aerosols (kg)	0.0000E+00	2.4628E-20

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CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1257E+09
Elemental I (atoms)	1.6698E+07	1.7240E+05
Organic I (atoms)	1.0328E+06	1.0664E+04
Aerosols (kg)	8.2244E-17	8.4912E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4938E+08
Elemental I (atoms)	0.0000E+00	3.1247E+06
Organic I (atoms)	0.0000E+00	1.9328E+05
Aerosols (kg)	0.0000E+00	1.5390E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	2.1984E+07	0.0000E+00
Elemental I (atoms)	1.1971E+04	0.0000E+00
Organic I (atoms)	7.4048E+02	0.0000E+00
Aerosols (kg)	5.8980E-20	0.0000E+00

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.8887E-07	1.5741E-05	1.3017E-06
Accumulated dose (rem)		7.9056E-07	1.5768E-05	1.3043E-06

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0739E-07	2.1429E-06	1.7721E-07
Accumulated dose (rem)		1.0762E-07	2.1466E-06	1.7756E-07

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.0584E-09	4.8636E-07	2.5449E-08
Accumulated dose (rem)		9.0632E-09	4.8657E-07	2.5461E-08

CR Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
Kr-83m		1.2680E-06	6.2468E-17	4.5324E+08	1.1424E+07
Kr-85m		3.0706E-06	3.7312E-16	2.6435E+09	2.7346E+07
Kr-85		1.6343E-07	4.1694E-13	2.9540E+12	1.4437E+06
Kr-87		5.4393E-06	1.9203E-16	1.3292E+09	4.9458E+07
Kr-88		8.1702E-06	6.5157E-16	4.4589E+09	7.3108E+07
Rb-86		9.4373E-12	1.1598E-19	8.1217E+05	8.3452E+01
Rb-88		1.1432E-06	9.4702E-18	6.4808E+07	7.3807E+06
I-131		4.4478E-08	3.5876E-16	1.6493E+09	3.9335E+05
I-132		5.9632E-08	5.7771E-18	2.6357E+07	5.3427E+05
I-133		9.1313E-08	8.0608E-17	3.6499E+08	8.0882E+05
I-134		8.1383E-08	3.0507E-18	1.3710E+07	7.5057E+05
I-135		8.4261E-08	2.3993E-17	1.0703E+08	7.4917E+05
Xe-133		1.9987E-05	1.0678E-13	4.8349E+11	1.7657E+08
Xe-133m		6.1265E-07	1.3916E-15	6.3010E+09	5.4131E+06
Xe-135		8.5996E-06	3.3675E-15	1.5022E+10	7.5736E+07
Xe-135m		2.9215E-06	3.2093E-17	1.4316E+08	2.7344E+07
Xe-138		6.7582E-06	7.0433E-17	3.0736E+08	7.0240E+07
Cs-134		9.4420E-10	7.2977E-16	3.2797E+09	8.3487E+03
Cs-136		2.8788E-10	3.9279E-18	1.7393E+07	2.5457E+03
Cs-137		7.3305E-10	8.4276E-15	3.7045E+10	6.4817E+03

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)		3.4681E+12	0.0000E+00
Elemental I (atoms)		1.8573E+09	0.0000E+00
Organic I (atoms)		1.1488E+08	0.0000E+00

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Aerosols (kg)	9.2122E-15	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.7980E-18
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			7.3627E-18
Total I (Ci)			3.6107E-07

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 0.3333		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.2020E+07
Organic I (atoms)	0.0000E+00	7.4351E+05
Aerosols (kg)	0.0000E+00	5.9535E-17

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 0.3333		
Noble gases (atoms)	0.0000E+00	2.9719E+12
Elemental I (atoms)	9.6414E+09	9.7391E+07
Organic I (atoms)	5.9637E+08	6.0242E+06
Aerosols (kg)	4.7702E-14	4.8185E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 0.3333		
Noble gases (atoms)	0.0000E+00	5.5035E+11
Elemental I (atoms)	0.0000E+00	1.8035E+09
Organic I (atoms)	0.0000E+00	1.1155E+08
Aerosols (kg)	0.0000E+00	8.9229E-15

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 0.3333		
Noble gases (atoms)	5.3623E+10	0.0000E+00
Elemental I (atoms)	2.8780E+07	0.0000E+00
Organic I (atoms)	1.7802E+06	0.0000E+00
Aerosols (kg)	1.4255E-16	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5000			
Delta dose (rem)	3.2936E-06	7.2397E-05	5.6506E-06
Accumulated dose (rem)	4.0842E-06	8.8165E-05	6.9550E-06

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5000			
Delta dose (rem)	4.4838E-07	9.8557E-06	7.6925E-07
Accumulated dose (rem)	5.5600E-07	1.2002E-05	9.4681E-07

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5000			
Delta dose (rem)	6.2326E-08	3.7333E-06	1.9005E-07
Accumulated dose (rem)	7.1390E-08	4.2199E-06	2.1551E-07

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	6.8449E-06	3.3720E-16	2.4466E+09	9.3255E+07
Kr-85m	1.7188E-05	2.0886E-15	1.4797E+10	2.3009E+08
Kr-85	9.3872E-07	2.3949E-12	1.6967E+13	1.2412E+07
Kr-87	2.8529E-05	1.0072E-15	6.9717E+09	3.9420E+08
Kr-88	4.5058E-05	3.5934E-15	2.4591E+10	6.0752E+08
Rb-86	5.2130E-11	6.4067E-19	4.4863E+06	7.0618E+02
Rb-88	8.8865E-06	7.3614E-17	5.0377E+08	9.0945E+07
I-131	2.4608E-07	1.9849E-15	9.1248E+09	3.3299E+06
I-132	3.1673E-07	3.0685E-17	1.3999E+08	4.3735E+06
I-133	5.0270E-07	4.4376E-16	2.0093E+09	6.8188E+06
I-134	3.9489E-07	1.4803E-17	6.6526E+07	5.7005E+06
I-135	4.5838E-07	1.3052E-16	5.8224E+08	6.2536E+06
Xe-133	1.1478E-04	6.1321E-13	2.7766E+12	1.5178E+09
Xe-133m	3.5170E-06	7.9886E-15	3.6172E+10	4.6517E+07

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Xe-135	4.9870E-05	1.9528E-14	8.7113E+10	6.5677E+08
Xe-135m	1.4453E-05	1.5877E-16	7.0823E+08	2.0772E+08
Xe-138	2.3823E-05	2.4828E-16	1.0835E+09	4.0610E+08
Cs-134	5.2169E-09	4.0322E-15	1.8121E+10	7.0663E+04
Cs-136	1.5900E-09	2.1695E-17	9.6065E+07	2.1540E+04
Cs-137	4.0503E-09	4.6565E-14	2.0469E+11	5.4860E+04

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	1.9918E+13	0.0000E+00	
Elemental I (atoms)	1.0226E+10	0.0000E+00	
Organic I (atoms)	6.5538E+08	0.0000E+00	
Aerosols (kg)	5.0920E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.2006E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.0481E-17	
Total I (Ci)		1.9188E-06	

	Deposition	Recirculating
Time (h) =	0.5000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0422E+08
Organic I (atoms)	0.0000E+00	6.5219E+06
Aerosols (kg)	0.0000E+00	5.1792E-16

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7208E+13
Elemental I (atoms)	5.3777E+10	5.4320E+08
Organic I (atoms)	3.4437E+09	3.4785E+07
Aerosols (kg)	2.6681E-13	2.6951E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1867E+12
Elemental I (atoms)	0.0000E+00	1.0059E+10
Organic I (atoms)	0.0000E+00	6.4416E+08
Aerosols (kg)	0.0000E+00	4.9908E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	4.7303E+11	0.0000E+00
Elemental I (atoms)	2.4954E+08	0.0000E+00
Organic I (atoms)	1.5616E+07	0.0000E+00
Aerosols (kg)	1.2401E-15	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6763E-03	7.4734E-03	1.9190E-03
Accumulated dose (rem)		1.6804E-03	7.5616E-03	1.9260E-03

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2820E-04	1.0174E-03	2.6125E-04
Accumulated dose (rem)		2.2876E-04	1.0294E-03	2.6219E-04

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1522E-04	1.6934E-03	2.0747E-04
Accumulated dose (rem)		1.1529E-04	1.6976E-03	2.0769E-04

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m		2.9058E-03	1.4315E-13	1.0386E+12	1.6958E+11
Kr-85m		1.0118E-02	1.2295E-12	8.7109E+12	5.5186E+11

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Kr-85	6.9698E-04	1.7781E-09	1.2598E+16	3.6298E+10
Kr-87	9.3514E-03	3.3014E-13	2.2852E+12	5.7709E+11
Kr-88	2.3198E-02	1.8500E-12	1.2660E+13	1.3003E+12
Rb-86	3.0326E-09	3.7270E-17	2.6098E+08	2.4687E+05
Rb-88	1.3693E-02	1.1343E-13	7.7622E+11	4.4716E+11
Sr-89	4.0995E-08	1.4111E-15	9.5481E+09	2.3107E+06
Sr-90	4.3906E-09	3.2187E-14	2.1537E+11	2.4743E+05
Sr-91	4.3718E-08	1.2060E-17	7.9812E+07	2.5192E+06
Sr-92	3.1403E-08	2.4984E-18	1.6354E+07	1.9159E+06
Y-90	9.8978E-11	1.8192E-19	1.2173E+06	4.8201E+03
Y-91	5.2464E-10	2.1393E-17	1.4157E+08	2.9423E+04
Y-92	7.7747E-09	8.0799E-19	5.2889E+06	3.5440E+05
Y-93	5.0027E-10	1.4995E-19	9.7098E+05	2.8789E+04
Zr-95	6.0674E-10	2.8243E-17	1.7903E+08	3.4198E+04
Zr-97	5.3967E-10	2.8230E-19	1.7527E+06	3.0795E+04
Nb-95	5.9893E-10	1.5317E-17	9.7095E+07	3.3752E+04
Mo-99	7.5063E-09	1.5651E-17	9.5202E+07	4.2437E+05
Tc-99m	6.7433E-09	1.2824E-18	7.8010E+06	3.7805E+05
Ru-103	6.6268E-09	2.0533E-16	1.2005E+09	3.7354E+05
Ru-105	3.4597E-09	5.1469E-19	2.9519E+06	2.0456E+05
Ru-106	2.7586E-09	8.2455E-16	4.6845E+09	1.5547E+05
Rh-105	4.3864E-09	5.1968E-18	2.9806E+07	2.4726E+05
Sb-127	7.5221E-09	2.8167E-17	1.3356E+08	4.2488E+05
Sb-129	1.7117E-08	3.0439E-18	1.4210E+07	1.0134E+06
Te-127	7.5392E-09	2.8567E-18	1.3546E+07	4.2342E+05
Te-127m	1.2916E-09	1.3693E-16	6.4928E+08	7.2785E+04
Te-129	1.9355E-08	9.2422E-19	4.3145E+06	1.0913E+06
Te-129m	4.2358E-09	1.4061E-16	6.5640E+08	2.3871E+05
Te-131m	1.5322E-08	1.9215E-17	8.8334E+07	8.6958E+05
Te-132	1.1311E-07	3.7257E-16	1.6998E+09	6.3915E+06
I-131	1.8623E-05	1.5022E-13	6.9055E+11	1.3989E+09
I-132	1.7038E-05	1.6506E-15	7.5304E+09	1.4013E+09
I-133	3.6378E-05	3.2113E-14	1.4540E+11	2.7663E+09
I-134	9.1758E-06	3.4396E-16	1.5458E+09	9.8424E+08
I-135	2.9795E-05	8.4842E-15	3.7847E+10	2.3341E+09
Xe-133	8.4708E-02	4.5254E-10	2.0491E+15	4.4174E+12
Xe-133m	2.5727E-03	5.8436E-12	2.6459E+13	1.3442E+11
Xe-135	3.5250E-02	1.3803E-11	6.1574E+13	1.8634E+12
Xe-135m	8.0008E-04	8.7889E-15	3.9206E+10	8.1447E+10
Xe-138	2.1864E-04	2.2787E-15	9.9438E+09	3.8490E+10
Cs-134	3.0417E-07	2.3509E-13	1.0565E+12	2.4745E+07
Cs-136	9.2405E-08	1.2608E-15	5.5829E+09	7.5244E+06
Cs-137	2.3616E-07	2.7151E-12	1.1935E+13	1.9212E+07
Ba-139	2.2692E-08	1.3873E-18	6.0105E+06	1.5005E+06
Ba-140	6.0097E-08	8.2090E-16	3.5311E+09	3.3891E+06
La-140	1.7718E-09	3.1877E-18	1.3712E+07	8.3440E+04
La-141	3.9826E-10	7.0422E-20	3.0078E+05	2.3697E+04
La-142	2.2622E-10	1.5803E-20	6.7020E+04	1.4696E+04
Ce-141	1.4247E-09	4.9999E-17	2.1355E+08	8.0299E+04
Ce-143	1.3328E-09	2.0069E-18	8.4518E+06	7.5589E+04
Ce-144	1.1422E-09	3.5810E-16	1.4976E+09	6.4369E+04
Pr-143	5.4602E-10	8.1086E-18	3.4148E+07	3.0741E+04
Nd-147	2.2075E-10	2.7287E-18	1.1179E+07	1.2450E+04
Np-239	1.5862E-08	6.8373E-17	1.7228E+08	8.9724E+05
Pu-238	3.5495E-12	2.0733E-16	5.2462E+08	2.0003E+02
Pu-239	3.5803E-13	5.7602E-15	1.4514E+10	2.0176E+01
Pu-240	6.3234E-13	2.7763E-16	6.9664E+08	3.5636E+01
Pu-241	1.4048E-10	1.4206E-15	3.5498E+09	7.9171E+03
Am-241	7.9498E-14	2.3205E-17	5.7986E+07	4.4797E+00
Cm-242	2.1826E-11	6.5935E-18	1.6408E+07	1.2301E+03
Cm-244	1.4436E-12	1.7637E-17	4.3530E+07	8.1357E+01

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	1.4760E+16	0.0000E+00	
Elemental I (atoms)	6.1597E+11	0.0000E+00	
Organic I (atoms)	2.0417E+11	0.0000E+00	
Aerosols (kg)	3.1231E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.3776E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.9286E-15	
Total I (Ci)		1.1101E-04	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter

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Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.6362E+10
Organic I (atoms)	0.0000E+00	8.4775E+09
Aerosols (kg)	0.0000E+00	1.8225E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3530E+16
Elemental I (atoms)	3.7839E+12	3.8221E+10
Organic I (atoms)	1.1895E+12	1.2016E+10
Aerosols (kg)	1.8347E-11	1.8532E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5056E+15
Elemental I (atoms)	0.0000E+00	7.0779E+11
Organic I (atoms)	0.0000E+00	2.2251E+11
Aerosols (kg)	0.0000E+00	3.4319E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	1.2672E+15	0.0000E+00
Elemental I (atoms)	8.7063E+10	0.0000E+00
Organic I (atoms)	2.0298E+10	0.0000E+00
Aerosols (kg)	4.3637E-13	0.0000E+00

EAB Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0833E-03	3.1408E-03	1.1851E-03
Accumulated dose (rem)	2.7637E-03	1.0702E-02	3.1111E-03

LPZ Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4747E-04	4.2757E-04	1.6133E-04
Accumulated dose (rem)	3.7623E-04	1.4570E-03	4.2352E-04

CR Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.3177E-05	9.0188E-04	1.6109E-04
Accumulated dose (rem)	2.0847E-04	2.5995E-03	3.6877E-04

CR Compartment Nuclide Inventory:

Time (h) = 2.2500	Ci	kg	Atoms	Decay
Kr-83m	3.8631E-03	1.9031E-13	1.3808E+12	2.8920E+11
Kr-85m	1.4205E-02	1.7261E-12	1.2229E+13	9.8031E+11
Kr-85	1.0171E-03	2.5948E-09	1.8384E+16	6.6414E+10
Kr-87	1.1908E-02	4.2039E-13	2.9099E+12	9.5358E+11
Kr-88	3.1848E-02	2.5398E-12	1.7381E+13	2.2713E+12
Rb-86	3.5742E-09	4.3927E-17	3.0760E+08	3.5990E+05
Rb-88	2.1104E-02	1.7482E-13	1.1963E+12	9.1790E+11
Sr-89	5.4825E-08	1.8871E-15	1.2769E+10	3.9790E+06
Sr-90	5.8725E-09	4.3051E-14	2.8807E+11	4.2612E+05
Sr-91	5.7418E-08	1.5839E-17	1.0482E+08	4.2817E+06
Sr-92	3.9401E-08	3.1347E-18	2.0519E+07	3.1525E+06
Y-90	1.4482E-10	2.6618E-19	1.7811E+06	8.9429E+03
Y-91	7.0400E-10	2.8707E-17	1.8997E+08	5.0791E+04
Y-92	1.1453E-08	1.1902E-18	7.7909E+06	6.7486E+05
Y-93	6.5775E-10	1.9715E-19	1.2766E+06	4.8969E+04
Zr-95	8.1143E-10	3.7771E-17	2.3943E+08	5.8889E+04
Zr-97	7.1446E-10	3.7374E-19	2.3203E+06	5.2642E+04
Nb-95	8.0109E-10	2.0487E-17	1.2987E+08	5.8127E+04
Mo-99	1.0014E-08	2.0878E-17	1.2700E+08	7.2945E+05
Tc-99m	9.0151E-09	1.7145E-18	1.0429E+07	6.5105E+05
Ru-103	8.8619E-09	2.7458E-16	1.6054E+09	6.4322E+05

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Ru-105	4.4504E-09	6.6206E-19	3.7971E+06	3.4255E+05
Ru-106	3.6896E-09	1.1028E-15	6.2655E+09	2.6773E+05
Rh-105	5.8605E-09	6.9432E-18	3.9822E+07	4.2556E+05
Sb-127	1.0042E-08	3.7604E-17	1.7831E+08	7.3071E+05
Sb-129	2.1994E-08	3.9112E-18	1.8259E+07	1.6957E+06
Te-127	1.0082E-08	3.8201E-18	1.8115E+07	7.2922E+05
Te-127m	1.7275E-09	1.8314E-16	8.6843E+08	1.2535E+05
Te-129	2.5282E-08	1.2072E-18	5.6357E+06	1.8524E+06
Te-129m	5.6654E-09	1.8806E-16	8.7792E+08	4.1109E+05
Te-131m	2.0376E-08	2.5553E-17	1.1747E+08	1.4913E+06
Te-132	1.5095E-07	4.9722E-16	2.2684E+09	1.0990E+07
I-131	2.2888E-05	1.8461E-13	8.4868E+11	2.1131E+09
I-132	1.9846E-05	1.9226E-15	8.7715E+09	2.0390E+09
I-133	4.4376E-05	3.9173E-14	1.7737E+11	4.1560E+09
I-134	9.2625E-06	3.4721E-16	1.5604E+09	1.3028E+09
I-135	3.5702E-05	1.0166E-14	4.5349E+10	3.4619E+09
Xe-133	1.2347E-01	6.5962E-10	2.9867E+15	8.0754E+12
Xe-133m	3.7437E-03	8.5035E-12	3.8503E+13	2.4543E+11
Xe-135	5.0759E-02	1.9874E-11	8.8655E+13	3.3770E+12
Xe-135m	7.4965E-04	8.2350E-15	3.6735E+10	1.1004E+11
Xe-138	1.5342E-04	1.5989E-15	6.9774E+09	4.5071E+10
Cs-134	3.5864E-07	2.7719E-13	1.2457E+12	3.6085E+07
Cs-136	1.0889E-07	1.4858E-15	6.5790E+09	1.0968E+07
Cs-137	2.7845E-07	3.2013E-12	1.4072E+13	2.8016E+07
Ba-139	2.6766E-08	1.6363E-18	7.0894E+06	2.3663E+06
Ba-140	8.0336E-08	1.0974E-15	4.7203E+09	5.8343E+06
La-140	2.6379E-09	4.7460E-18	2.0415E+07	1.5757E+05
La-141	5.0971E-10	9.0129E-20	3.8494E+05	3.9540E+04
La-142	2.7041E-10	1.8890E-20	8.0111E+04	2.3386E+04
Ce-141	1.9052E-09	6.6866E-17	2.8559E+08	1.3828E+05
Ce-143	1.7733E-09	2.6703E-18	1.1245E+07	1.2968E+05
Ce-144	1.5276E-09	4.7895E-16	2.0030E+09	1.1085E+05
Pr-143	7.3076E-10	1.0852E-17	4.5701E+07	5.2964E+04
Nd-147	2.9507E-10	3.6473E-18	1.4942E+07	2.1432E+04
Np-239	2.1151E-08	9.1171E-17	2.2973E+08	1.5418E+06
Pu-238	4.7476E-12	2.7732E-16	7.0169E+08	3.4449E+02
Pu-239	4.7890E-13	7.7047E-15	1.9414E+10	3.4748E+01
Pu-240	8.4577E-13	3.7134E-16	9.3177E+08	6.1371E+01
Pu-241	1.8790E-10	1.9001E-15	4.7479E+09	1.3635E+04
Am-241	1.0634E-13	3.1040E-17	7.7563E+07	7.7152E+00
Cm-242	2.9191E-11	8.8185E-18	2.1945E+07	2.1183E+03
Cm-244	1.9309E-12	2.3590E-17	5.8222E+07	1.4011E+02

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	2.1531E+16	0.0000E+00	
Elemental I (atoms)	7.2904E+11	0.0000E+00	
Organic I (atoms)	2.7844E+11	0.0000E+00	
Aerosols (kg)	3.7305E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.9137E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.5771E-15	
Total I (Ci)		1.3207E-04	

Deposition Recirculating

Time (h) =	2.2500	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	5.4027E+10	
Organic I (atoms)	0.0000E+00	1.4773E+10	
Aerosols (kg)	0.0000E+00	2.7188E-13	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.0202E+16
Elemental I (atoms)	4.6759E+12	4.7232E+10
Organic I (atoms)	1.6800E+12	1.6969E+10
Aerosols (kg)	2.2600E-11	2.2829E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.7411E+15

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Elemental I (atoms)	0.0000E+00	8.7466E+11
Organic I (atoms)	0.0000E+00	3.1425E+11
Aerosols (kg)	0.0000E+00	4.2275E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	2.3961E+15	0.0000E+00
Elemental I (atoms)	1.2936E+11	0.0000E+00
Organic I (atoms)	3.5372E+10	0.0000E+00
Aerosols (kg)	6.5098E-13	0.0000E+00

EAB Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.2264E-04	2.2235E-03	8.9464E-04
Accumulated dose (rem)	3.5863E-03	1.2926E-02	4.0057E-03

LPZ Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1199E-04	3.0270E-04	1.2179E-04
Accumulated dose (rem)	4.8822E-04	1.7597E-03	5.4531E-04

CR Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.2281E-05	6.3683E-04	1.2503E-04
Accumulated dose (rem)	2.8075E-04	3.2363E-03	4.9380E-04

CR Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	4.5697E-03	2.2512E-13	1.6333E+12	3.7861E+11
Kr-85m	1.7361E-02	2.1097E-12	1.4947E+13	1.3145E+12
Kr-85	1.2723E-03	3.2458E-09	2.2996E+16	9.0628E+10
Kr-87	1.3726E-02	4.8458E-13	3.3543E+12	1.2256E+12
Kr-88	3.8407E-02	3.0629E-12	2.0961E+13	3.0156E+12
Rb-86	3.9364E-09	4.8378E-17	3.3877E+08	4.3691E+05
Rb-88	2.6106E-02	2.1626E-13	1.4800E+12	1.3121E+12
Sr-89	6.4807E-08	2.2307E-15	1.5094E+10	5.2279E+06
Sr-90	6.9423E-09	5.0894E-14	3.4054E+11	5.5990E+05
Sr-91	6.7139E-08	1.8521E-17	1.2257E+08	5.5825E+06
Sr-92	4.4826E-08	3.5662E-18	2.3344E+07	4.0329E+06
Y-90	1.7990E-10	3.3066E-19	2.2126E+06	1.2254E+04
Y-91	8.3382E-10	3.4000E-17	2.2500E+08	6.6831E+04
Y-92	1.4186E-08	1.4743E-18	9.6503E+06	9.3337E+05
Y-93	7.6961E-10	2.3068E-19	1.4937E+06	6.3875E+04
Zr-95	9.5919E-10	4.4649E-17	2.8303E+08	7.7373E+04
Zr-97	8.3944E-10	4.3911E-19	2.7262E+06	6.8868E+04
Nb-95	9.4703E-10	2.4219E-17	1.5352E+08	7.6375E+04
Mo-99	1.1819E-08	2.4643E-17	1.4990E+08	9.5738E+05
Tc-99m	1.0654E-08	2.0262E-18	1.2325E+07	8.5543E+05
Ru-103	1.0475E-08	3.2457E-16	1.8977E+09	8.4508E+05
Ru-105	5.1393E-09	7.6455E-19	4.3850E+06	4.4274E+05
Ru-106	4.3617E-09	1.3037E-15	7.4068E+09	3.5178E+05
Rh-105	6.9230E-09	8.2021E-18	4.7042E+07	5.5894E+05
Sb-127	1.1858E-08	4.4404E-17	2.1056E+08	9.5935E+05
Sb-129	2.5382E-08	4.5137E-18	2.1072E+07	2.1907E+06
Te-127	1.1917E-08	4.5154E-18	2.1411E+07	9.5817E+05
Te-127m	2.0422E-09	2.1651E-16	1.0266E+09	1.6470E+05
Te-129	2.9446E-08	1.4061E-18	6.5639E+06	2.4125E+06
Te-129m	6.6973E-09	2.2231E-16	1.0378E+09	5.4014E+05
Te-131m	2.4005E-08	3.0104E-17	1.3839E+08	1.9547E+06
Te-132	1.7822E-07	5.8702E-16	2.6781E+09	1.4426E+07
I-131	2.5917E-05	2.0905E-13	9.6103E+11	2.6170E+09
I-132	2.1799E-05	2.1118E-15	9.6347E+09	2.4709E+09
I-133	5.0025E-05	4.4160E-14	1.9995E+11	5.1308E+09
I-134	9.3204E-06	3.4938E-16	1.5702E+09	1.4951E+09
I-135	3.9817E-05	1.1338E-14	5.0577E+10	4.2420E+09
Xe-133	1.5434E-01	8.2457E-10	3.7336E+15	1.1014E+13
Xe-133m	4.6753E-03	1.0620E-11	4.8084E+13	3.3449E+11
Xe-135	6.2993E-02	2.4667E-11	1.1004E+14	4.5817E+12

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Xe-135m	7.3755E-04	8.1020E-15	3.6142E+10	1.2658E+11
Xe-138	1.2368E-04	1.2890E-15	5.6250E+09	4.8016E+10
Cs-134	3.9507E-07	3.0535E-13	1.3723E+12	4.3813E+07
Cs-136	1.1991E-07	1.6361E-15	7.2449E+09	1.3314E+07
Cs-137	3.0674E-07	3.5265E-12	1.5501E+13	3.4017E+07
Ba-139	2.9342E-08	1.7939E-18	7.7719E+06	2.9533E+06
Ba-140	9.4939E-08	1.2968E-15	5.5783E+09	7.6641E+06
La-140	3.3059E-09	5.9477E-18	2.5584E+07	2.1792E+05
La-141	5.8683E-10	1.0377E-19	4.4319E+05	5.0998E+04
La-142	2.9882E-10	2.0875E-20	8.8528E+04	2.9341E+04
Ce-141	2.2521E-09	7.9041E-17	3.3758E+08	1.8168E+05
Ce-143	2.0897E-09	3.1468E-18	1.3252E+07	1.7001E+05
Ce-144	1.8059E-09	5.6620E-16	2.3679E+09	1.4565E+05
Pr-143	8.6419E-10	1.2834E-17	5.4046E+07	6.9610E+04
Nd-147	3.4868E-10	4.3101E-18	1.7657E+07	2.8152E+04
Np-239	2.4958E-08	1.0758E-16	2.7108E+08	2.0231E+06
Pu-238	5.6124E-12	3.2784E-16	8.2953E+08	4.5264E+02
Pu-239	5.6615E-13	9.1085E-15	2.2951E+10	4.5657E+01
Pu-240	9.9985E-13	4.3899E-16	1.1015E+09	8.0638E+01
Pu-241	2.2213E-10	2.2462E-15	5.6129E+09	1.7915E+04
Am-241	1.2572E-13	3.6696E-17	9.1697E+07	1.0138E+01
Cm-242	3.4508E-11	1.0425E-17	2.5942E+07	2.7833E+03
Cm-244	2.2826E-12	2.7888E-17	6.8829E+07	1.8410E+02

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump	
Noble gases (atoms)		2.6929E+16	0.0000E+00	
Elemental I (atoms)		8.0507E+11	0.0000E+00	
Organic I (atoms)		3.3569E+11	0.0000E+00	
Aerosols (kg)		4.1380E-12	0.0000E+00	
Dose Effective (Ci/cc)		I-131 (Thyroid)	3.2938E-15	
Dose Effective (Ci/cc)		I-131 (ICRP2 Thyroid)	4.0363E-15	
Total I (Ci)			1.4688E-04	

		Deposition	Recirculating	
Time (h) =	2.4000	Surfaces	Filter	
Noble gases (atoms)		0.0000E+00	0.0000E+00	
Elemental I (atoms)		0.0000E+00	6.6136E+10	
Organic I (atoms)		0.0000E+00	1.9611E+10	
Aerosols (kg)		0.0000E+00	3.3374E-13	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	2.4000	Filtered	Transported	
Noble gases (atoms)		0.0000E+00	2.5531E+16	
Elemental I (atoms)		5.2797E+12	5.3331E+10	
Organic I (atoms)		2.0576E+12	2.0784E+10	
Aerosols (kg)		2.5473E-11	2.5730E-13	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	2.4000	Filtered	Transported	
Noble gases (atoms)		0.0000E+00	4.7279E+15	
Elemental I (atoms)		0.0000E+00	9.8760E+11	
Organic I (atoms)		0.0000E+00	3.8488E+11	
Aerosols (kg)		0.0000E+00	4.7649E-12	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	2.4000	Filtered	Transported	
Noble gases (atoms)		3.3087E+15	0.0000E+00	
Elemental I (atoms)		1.5835E+11	0.0000E+00	
Organic I (atoms)		4.6955E+10	0.0000E+00	
Aerosols (kg)		7.9908E-13	0.0000E+00	

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6181E-02	3.8536E-02	1.7422E-02
Accumulated dose (rem)		1.9768E-02	5.1462E-02	2.1428E-02

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LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2028E-03	5.2460E-03	2.3718E-03
Accumulated dose (rem)		2.6910E-03	7.0057E-03	2.9171E-03

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0133E-03	1.3269E-02	3.4627E-03
Accumulated dose (rem)		2.2941E-03	1.6506E-02	3.9565E-03

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		1.4200E-02	6.9954E-13	5.0756E+12	2.4681E+12
Kr-85m		7.6460E-02	9.2909E-12	6.5825E+13	1.1094E+13
Kr-85		7.1770E-03	1.8310E-08	1.2972E+17	9.2620E+11
Kr-87		3.2371E-02	1.1428E-12	7.9105E+12	6.5822E+12
Kr-88		1.4661E-01	1.1692E-11	8.0014E+13	2.2855E+13
Rb-86		8.4816E-09	1.0424E-16	7.2992E+08	1.7816E+06
Rb-88		1.2312E-01	1.0199E-12	6.9795E+12	1.3535E+13
Sr-89		2.0967E-07	7.2169E-15	4.8833E+10	3.4711E+07
Sr-90		2.2481E-08	1.6481E-13	1.1028E+12	3.7199E+06
Sr-91		1.9346E-07	5.3367E-17	3.5317E+08	3.4127E+07
Sr-92		9.6406E-08	7.6699E-18	5.0206E+07	2.0170E+07
Y-90		9.1530E-10	1.6823E-18	1.1257E+07	1.1925E+05
Y-91		2.7569E-09	1.1242E-16	7.4395E+08	4.5070E+05
Y-92		6.1434E-08	6.3846E-18	4.1792E+07	8.6423E+06
Y-93		2.2330E-09	6.6930E-19	4.3340E+06	3.9240E+05
Zr-95		3.1038E-09	1.4448E-16	9.1587E+08	5.1379E+05
Zr-97		2.5456E-09	1.3316E-18	8.2673E+06	4.3653E+05
Nb-95		3.0667E-09	7.8426E-17	4.9715E+08	5.0743E+05
Mo-99		3.7635E-08	7.8470E-17	4.7733E+08	6.2842E+06
Tc-99m		3.4346E-08	6.5318E-18	3.9733E+07	5.6659E+06
Ru-103		3.3881E-08	1.0498E-15	6.1379E+09	5.6098E+06
Ru-105		1.2964E-08	1.9286E-18	1.1061E+07	2.4668E+06
Ru-106		1.4122E-08	4.2212E-15	2.3982E+10	2.3370E+06
Rh-105		2.2181E-08	2.6279E-17	1.5072E+08	3.6898E+06
Sb-127		3.7941E-08	1.4208E-16	6.7370E+08	6.3189E+06
Sb-129		6.3584E-08	1.1307E-17	5.2785E+07	1.2148E+07
Te-127		3.8514E-08	1.4594E-17	6.9200E+07	6.3569E+06
Te-127m		6.6133E-09	7.0111E-16	3.3245E+09	1.0943E+06
Te-129		8.0284E-08	3.8336E-18	1.7896E+07	1.4271E+07
Te-129m		2.1680E-08	7.1965E-16	3.3595E+09	3.5879E+06
Te-131m		7.4912E-08	9.3945E-17	4.3187E+08	1.2646E+07
Te-132		5.6898E-07	1.8741E-15	8.5503E+09	9.4872E+07
I-131		7.4345E-05	5.9968E-13	2.7568E+12	1.3187E+10
I-132		4.4781E-05	4.3384E-15	1.9793E+10	9.8696E+09
I-133		1.3681E-04	1.2077E-13	5.4682E+11	2.4973E+10
I-134		7.5875E-06	2.8442E-16	1.2782E+09	3.4386E+09
I-135		9.7113E-05	2.7653E-14	1.2336E+11	1.9030E+10
Xe-133		8.6403E-01	4.6160E-09	2.0901E+16	1.1190E+14
Xe-133m		2.5886E-02	5.8798E-11	2.6623E+14	3.3699E+12
Xe-135		3.2255E-01	1.2630E-10	5.6342E+14	4.3621E+13
Xe-135m		5.3571E-04	5.8848E-15	2.6251E+10	2.7804E+11
Xe-138		6.4348E-06	6.7062E-17	2.9265E+08	5.7849E+10
Cs-134		8.5329E-07	6.5951E-13	2.9639E+12	1.7895E+08
Cs-136		2.5810E-07	3.5216E-15	1.5594E+10	5.4254E+07
Cs-137		6.6256E-07	7.6172E-12	3.3483E+13	1.3895E+08
Ba-139		4.2498E-08	2.5981E-18	1.1256E+07	1.1480E+07
Ba-140		3.0632E-07	4.1842E-15	1.7999E+10	5.0786E+07
La-140		1.7822E-08	3.2064E-17	1.3793E+08	2.2602E+06
La-141		1.4331E-09	2.5340E-19	1.0823E+06	2.7790E+05
La-142		4.7130E-10	3.2924E-20	1.3963E+05	1.2019E+05
Ce-141		7.2856E-09	2.5569E-16	1.0921E+09	1.2062E+06
Ce-143		6.5434E-09	9.8533E-18	4.1495E+07	1.1026E+06
Ce-144		5.8469E-09	1.8332E-15	7.6665E+09	9.6757E+05
Pr-143		2.8099E-09	4.1729E-17	1.7573E+08	4.6380E+05
Nd-147		1.1244E-09	1.3899E-17	5.6938E+07	1.8647E+05
Np-239		7.9250E-08	3.4161E-16	8.6075E+08	1.3253E+07
Pu-238		1.8175E-11	1.0616E-15	2.6862E+09	3.0073E+03
Pu-239		1.8338E-12	2.9502E-14	7.4337E+10	3.0339E+02
Pu-240		3.2377E-12	1.4215E-15	3.5670E+09	5.3575E+02

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Pu-241	7.1931E-10	7.2737E-15	1.8176E+10	1.1902E+05
Am-241	4.0729E-13	1.1889E-16	2.9708E+08	6.7376E+01
Cm-242	1.1171E-10	3.3748E-17	8.3982E+07	1.8488E+04
Cm-244	7.3917E-12	9.0306E-17	2.2288E+08	1.2231E+03

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump
Noble gases (atoms)	1.5161E+17	0.0000E+00	
Elemental I (atoms)	1.7539E+12	0.0000E+00	
Organic I (atoms)	1.5150E+12	0.0000E+00	
Aerosols (kg)	9.5669E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.2878E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.1191E-14	
Total I (Ci)		3.6063E-04	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.8059E+11
Organic I (atoms)	0.0000E+00	1.6151E+11
Aerosols (kg)	0.0000E+00	1.4670E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5774E+17
Elemental I (atoms)	1.3940E+13	1.4081E+11
Organic I (atoms)	1.0586E+13	1.0693E+11
Aerosols (kg)	6.6878E-11	6.7553E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.9211E+16
Elemental I (atoms)	0.0000E+00	2.6076E+12
Organic I (atoms)	0.0000E+00	1.9803E+12
Aerosols (kg)	0.0000E+00	1.2510E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	3.5136E+16	0.0000E+00
Elemental I (atoms)	6.7182E+11	0.0000E+00
Organic I (atoms)	3.8670E+11	0.0000E+00
Aerosols (kg)	3.5124E-12	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1409E-02	1.9131E-01	7.7490E-02	
Accumulated dose (rem)	9.1177E-02	2.4278E-01	9.8918E-02	

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7212E-03	2.6044E-02	1.0549E-02	
Accumulated dose (rem)	1.2412E-02	3.3050E-02	1.3466E-02	

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7131E-02	1.0443E-01	2.9873E-02	
Accumulated dose (rem)	1.9426E-02	1.2094E-01	3.3830E-02	

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m	1.9117E-02	9.4174E-13	6.8329E+12	1.3029E+13	
Kr-85m	2.4612E-01	2.9907E-11	2.1189E+14	1.0301E+14	
Kr-85	4.2899E-02	1.0944E-07	7.7540E+17	1.3486E+13	
Kr-87	2.1866E-02	7.7194E-13	5.3434E+12	2.3751E+13	

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Kr-88	3.3013E-01	2.6327E-11	1.8017E+14	1.6659E+14
Rb-86	1.5573E-08	1.9139E-16	1.3402E+09	8.6532E+06
Rb-88	3.2694E-01	2.7083E-12	1.8534E+13	1.2617E+14
Sr-89	4.8176E-07	1.6582E-14	1.1220E+11	2.3317E+08
Sr-90	5.1772E-08	3.7954E-13	2.5396E+12	2.5026E+07
Sr-91	3.3275E-07	9.1794E-17	6.0747E+08	1.9031E+08
Sr-92	7.9812E-08	6.3497E-18	4.1564E+07	7.3816E+07
Y-90	4.1533E-09	7.6338E-18	5.1080E+07	1.4473E+06
Y-91	6.6435E-09	2.7090E-16	1.7927E+09	3.1325E+06
Y-92	1.3321E-07	1.3844E-17	9.0620E+07	6.7580E+07
Y-93	3.9081E-09	1.1714E-18	7.5851E+06	2.2121E+06
Zr-95	7.1352E-09	3.3213E-16	2.1054E+09	3.4525E+06
Zr-97	4.9755E-09	2.6027E-18	1.6159E+07	2.6394E+06
Nb-95	7.0626E-09	1.8061E-16	1.1449E+09	3.4138E+06
Mo-99	8.3107E-08	1.7328E-16	1.0541E+09	4.1125E+07
Tc-99m	7.7586E-08	1.4755E-17	8.9755E+07	3.7717E+07
Ru-103	7.7798E-08	2.4106E-15	1.4094E+10	3.7668E+07
Ru-105	1.5989E-08	2.3786E-18	1.3642E+07	1.1257E+07
Ru-106	3.2514E-08	9.7184E-15	5.5213E+10	1.5719E+07
Rh-105	4.8900E-08	5.7934E-17	3.3227E+08	2.4231E+07
Sb-127	8.4795E-08	3.1752E-16	1.5056E+09	4.1679E+07
Sb-129	7.7074E-08	1.3706E-17	6.3984E+07	5.4881E+07
Te-127	8.7947E-08	3.3325E-17	1.5802E+08	4.2569E+07
Te-127m	1.5230E-08	1.6147E-15	7.6565E+09	7.3620E+06
Te-129	1.1631E-07	5.5539E-18	2.5927E+07	7.1979E+07
Te-129m	4.9838E-08	1.6544E-15	7.7231E+09	2.4115E+07
Te-131m	1.5729E-07	1.9725E-16	9.0678E+08	8.0080E+07
Te-132	1.2647E-06	4.1658E-15	1.9005E+10	6.2353E+08
I-131	2.3888E-04	1.9268E-12	8.8578E+12	9.7313E+10
I-132	6.3914E-05	6.1919E-15	2.8249E+10	4.1812E+10
I-133	3.9016E-04	3.4442E-13	1.5595E+12	1.6937E+11
I-134	1.0462E-06	3.9217E-17	1.7625E+08	5.4245E+09
I-135	2.0804E-04	5.9238E-14	2.6425E+11	1.0616E+11
Xe-133	5.0586E+00	2.7025E-08	1.2237E+17	1.6045E+15
Xe-133m	1.4714E-01	3.3421E-10	1.5133E+15	4.7273E+13
Xe-135	1.4467E+00	5.6651E-10	2.5271E+15	5.1730E+14
Xe-135m	3.9916E-04	4.3848E-15	1.9560E+10	5.6161E+11
Xe-138	3.1419E-10	3.2745E-21	1.4289E+04	5.8241E+10
Cs-134	1.5762E-06	1.2182E-12	5.4750E+12	8.7255E+08
Cs-136	4.7266E-07	6.4490E-15	2.8557E+10	2.6306E+08
Cs-137	1.2240E-06	1.4072E-11	6.1859E+13	6.7754E+08
Ba-139	1.3093E-08	8.0047E-19	3.4680E+06	2.6768E+07
Ba-140	6.9908E-07	9.5492E-15	4.1076E+10	3.3963E+08
La-140	8.3790E-08	1.5075E-16	6.4845E+08	2.8821E+07
La-141	1.6299E-09	2.8821E-19	1.2309E+06	1.2104E+06
La-142	1.7970E-10	1.2553E-20	5.3236E+04	3.0527E+05
Ce-141	1.6728E-08	5.8709E-16	2.5075E+09	8.0996E+06
Ce-143	1.3855E-08	2.0863E-17	8.7861E+07	7.0203E+06
Ce-144	1.3460E-08	4.2201E-15	1.7649E+10	6.5077E+06
Pr-143	6.5366E-09	9.7070E-17	4.0879E+08	3.1416E+06
Nd-147	2.5623E-09	3.1673E-17	1.2975E+08	1.2458E+06
Np-239	1.7377E-07	7.4905E-16	1.8874E+09	8.6331E+07
Pu-238	4.1857E-11	2.4449E-15	6.1864E+09	2.0232E+04
Pu-239	4.2254E-12	6.7980E-14	1.7129E+11	2.0418E+03
Pu-240	7.4565E-12	3.2738E-15	8.2147E+09	3.6043E+03
Pu-241	1.6565E-09	1.6751E-14	4.1857E+10	8.0074E+05
Am-241	9.3917E-13	2.7414E-16	6.8504E+08	4.5365E+02
Cm-242	2.5709E-10	7.7666E-17	1.9327E+08	1.2432E+05
Cm-244	1.7023E-11	2.0797E-16	5.1329E+08	8.2285E+03

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	9.0221E+17	0.0000E+00	
Elemental I (atoms)	3.0848E+12	0.0000E+00	
Organic I (atoms)	7.3019E+12	0.0000E+00	
Aerosols (kg)	1.8600E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.8755E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3628E-14	
Total I (Ci)		9.0204E-04	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3745E+12

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Organic I (atoms)	0.0000E+00	1.9357E+12
Aerosols (kg)	0.0000E+00	7.7838E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2072E+18
Elemental I (atoms)	4.0175E+13	4.0581E+11
Organic I (atoms)	7.1535E+13	7.2258E+11
Aerosols (kg)	1.9842E-10	2.0042E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2356E+17
Elemental I (atoms)	0.0000E+00	7.5149E+12
Organic I (atoms)	0.0000E+00	1.3381E+13
Aerosols (kg)	0.0000E+00	3.7115E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	5.2614E+17	0.0000E+00
Elemental I (atoms)	3.2909E+12	0.0000E+00
Organic I (atoms)	4.6347E+12	0.0000E+00
Aerosols (kg)	1.8637E-11	0.0000E+00

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3373E-01	6.1092E-01	1.5286E-01
Accumulated dose (rem)	2.2491E-01	8.5369E-01	2.5178E-01

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2250E-02	2.8778E-02	1.3150E-02
Accumulated dose (rem)	2.4662E-02	6.1828E-02	2.6617E-02

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8920E-02	2.3995E-01	5.0915E-02
Accumulated dose (rem)	4.8346E-02	3.6089E-01	8.4744E-02

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	1.1787E-03	5.8067E-14	4.2131E+11	1.9467E+13
Kr-85m	8.6766E-02	1.0543E-11	7.4698E+13	2.5648E+14
Kr-85	5.2142E-02	1.3303E-07	9.4248E+17	6.1414E+13
Kr-87	3.3943E-04	1.1983E-14	8.2947E+10	2.8925E+13
Kr-88	5.6945E-02	4.5414E-12	3.1078E+13	3.2226E+14
Rb-86	5.1017E-09	6.2700E-17	4.3905E+08	1.7748E+07
Rb-88	1.6489E-01	1.3659E-12	9.3475E+12	2.6113E+14
Sr-89	1.8049E-07	6.2126E-15	4.2037E+10	5.2967E+08
Sr-90	1.9485E-08	1.4284E-13	9.5580E+11	5.6950E+07
Sr-91	6.9861E-08	1.9272E-17	1.2754E+08	3.5347E+08
Sr-92	3.8818E-09	3.0883E-19	2.0215E+06	9.8347E+07
Y-90	3.0312E-09	5.5714E-18	3.7280E+07	4.9654E+06
Y-91	2.6421E-09	1.0774E-16	7.1297E+08	7.3334E+06
Y-92	1.8359E-08	1.9080E-18	1.2489E+07	1.2584E+08
Y-93	8.4944E-10	2.5460E-19	1.6487E+06	4.1531E+06
Zr-95	2.6758E-09	1.2455E-16	7.8955E+08	7.8457E+06
Zr-97	1.3488E-09	7.0556E-19	4.3804E+06	5.3277E+06
Nb-95	2.6581E-09	6.7976E-17	4.3091E+08	7.7682E+06
Mo-99	2.8758E-08	5.9961E-17	3.6474E+08	9.0626E+07
Tc-99m	2.7918E-08	5.3093E-18	3.2297E+07	8.3691E+07
Ru-103	2.9109E-08	9.0193E-16	5.2734E+09	8.5524E+07
Ru-105	1.7260E-09	2.5677E-19	1.4727E+06	1.7486E+07
Ru-106	1.2229E-08	3.6554E-15	2.0767E+10	3.5763E+07

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Rh-105	1.6225E-08	1.9223E-17	1.1025E+08	5.2926E+07
Sb-127	3.0055E-08	1.1254E-16	5.3367E+08	9.2685E+07
Sb-129	8.0363E-09	1.4291E-18	6.6714E+06	8.4573E+07
Te-127	3.2400E-08	1.2277E-17	5.8216E+07	9.5613E+07
Te-127m	5.7319E-09	6.0767E-16	2.8815E+09	1.6753E+07
Te-129	2.6218E-08	1.2519E-18	5.8444E+06	1.2205E+08
Te-129m	1.8653E-08	6.1919E-16	2.8906E+09	5.4780E+07
Te-131m	4.9208E-08	6.1710E-17	2.8369E+08	1.7002E+08
Te-132	4.4340E-07	1.4605E-15	6.6632E+09	1.3809E+09
I-131	1.8431E-04	1.4867E-12	6.8343E+12	2.9706E+11
I-132	1.8106E-05	1.7541E-15	8.0028E+09	7.3393E+10
I-133	2.3719E-04	2.0938E-13	9.4807E+11	4.6074E+11
I-134	1.4866E-09	5.5727E-20	2.5045E+05	5.5785E+09
I-135	7.1358E-05	2.0319E-14	9.0640E+10	2.2696E+11
Xe-133	5.8924E+00	3.1479E-08	1.4254E+17	7.1319E+15
Xe-133m	1.6133E-01	3.6645E-10	1.6592E+15	2.0310E+14
Xe-135	9.6156E-01	3.7653E-10	1.6797E+15	1.7145E+15
Xe-135m	5.6616E-05	6.2194E-16	2.7744E+09	7.1035E+11
Cs-134	5.2264E-07	4.0395E-13	1.8154E+12	1.7976E+09
Cs-136	1.5403E-07	2.1016E-15	9.3062E+09	5.3852E+08
Cs-137	4.0599E-07	4.6675E-12	2.0517E+13	1.3960E+09
Ba-139	8.8195E-11	5.3919E-21	2.3360E+04	2.9339E+07
Ba-140	2.5838E-07	3.5294E-15	1.5182E+10	7.6748E+08
La-140	6.0681E-08	1.0917E-16	4.6961E+08	9.9666E+07
La-141	1.4962E-10	2.6456E-20	1.1300E+05	1.8135E+06
Ce-141	6.2540E-09	2.1949E-16	9.3744E+08	1.8387E+07
Ce-143	4.4080E-09	6.6377E-18	2.7953E+07	1.4996E+07
Ce-144	5.0617E-09	1.5870E-15	6.6369E+09	1.4805E+07
Pr-143	2.4987E-09	3.7107E-17	1.5627E+08	7.1977E+06
Nd-147	9.4428E-10	1.1672E-17	4.7818E+07	2.8121E+06
Np-239	5.9290E-08	2.5557E-16	6.4397E+08	1.8924E+08
Pu-238	1.5754E-11	9.2022E-16	2.3284E+09	4.6043E+04
Pu-239	1.5919E-12	2.5612E-14	6.4535E+10	4.6485E+03
Pu-240	2.8064E-12	1.2321E-15	3.0917E+09	8.2022E+03
Pu-241	6.2343E-10	6.3042E-15	1.5753E+10	1.8222E+06
Am-241	3.5437E-13	1.0344E-16	2.5848E+08	1.0334E+03
Cm-242	9.6624E-11	2.9190E-17	7.2638E+07	2.8276E+05
Cm-244	6.4065E-12	7.8269E-17	1.9318E+08	1.8725E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	1.0885E+18	0.0000E+00
Elemental I (atoms)	8.6842E+11	0.0000E+00
Organic I (atoms)	6.9115E+12	0.0000E+00
Aerosols (kg)	6.6585E-12	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.0944E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.3571E-14
Total I (Ci)		5.1097E-04

Deposition Recirculating

Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.7569E+12
Organic I (atoms)	0.0000E+00	7.3107E+12
Aerosols (kg)	0.0000E+00	1.6603E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9561E+18
Elemental I (atoms)	5.3385E+13	5.3924E+11
Organic I (atoms)	1.6463E+14	1.6629E+12
Aerosols (kg)	2.7435E-10	2.7712E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4743E+17
Elemental I (atoms)	0.0000E+00	9.9860E+12
Organic I (atoms)	0.0000E+00	3.0795E+13
Aerosols (kg)	0.0000E+00	5.1318E-11

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	2.4056E+18	0.0000E+00
Elemental I (atoms)	6.6008E+12	0.0000E+00
Organic I (atoms)	1.7504E+13	0.0000E+00
Aerosols (kg)	3.9752E-11	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1711E-02	7.1828E-01	1.1399E-01
Accumulated dose (rem)	3.1662E-01	1.5720E+00	3.6577E-01

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.4004E-03	3.3836E-02	9.4500E-03
Accumulated dose (rem)	3.3062E-02	9.5665E-02	3.6067E-02

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7709E-02	2.4155E-01	3.1166E-02
Accumulated dose (rem)	6.6055E-02	6.0245E-01	1.1591E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	7.8360E-05	3.8602E-15	2.8008E+10	1.9915E+13
Kr-85m	3.2979E-02	4.0073E-12	2.8391E+13	3.1787E+14
Kr-85	6.8329E-02	1.7432E-07	1.2351E+18	1.2741E+14
Kr-87	5.6809E-06	2.0056E-16	1.3882E+09	2.9015E+13
Kr-88	1.0591E-02	8.4460E-13	5.7799E+12	3.5270E+14
Rb-86	2.7038E-09	3.3230E-17	2.3269E+08	2.1540E+07
Rb-88	3.0744E-02	2.5468E-13	1.7428E+12	2.8693E+14
Sr-89	1.1204E-07	3.8566E-15	2.6095E+10	6.7517E+08
Sr-90	1.2151E-08	8.9077E-14	5.9604E+11	7.2691E+07
Sr-91	2.4303E-08	6.7042E-18	4.4366E+07	3.9716E+08
Sr-92	3.1282E-10	2.4888E-20	1.6291E+05	9.9780E+07
Y-90	2.7284E-09	5.0148E-18	3.3555E+07	7.8370E+06
Y-91	1.6910E-09	6.8955E-17	4.5632E+08	9.4923E+06
Y-92	3.0417E-09	3.1611E-19	2.0692E+06	1.3443E+08
Y-93	3.0592E-10	9.1694E-20	5.9376E+05	4.6921E+06
Zr-95	1.6626E-09	7.7393E-17	4.9060E+08	1.0004E+07
Zr-97	6.0585E-10	3.1692E-19	1.9676E+06	6.2680E+06
Nb-95	1.6576E-09	4.2390E-17	2.6871E+08	9.9147E+06
Mo-99	1.6489E-08	3.4379E-17	2.0913E+08	1.1298E+08
Tc-99m	1.6516E-08	3.1410E-18	1.9107E+07	1.0460E+08
Ru-103	1.8046E-08	5.5916E-16	3.2693E+09	1.0898E+08
Ru-105	3.0872E-10	4.5926E-20	2.6341E+05	1.8319E+07
Ru-106	7.6216E-09	2.2781E-15	1.2943E+10	4.5640E+07
Rh-105	8.7385E-09	1.0353E-17	5.9378E+07	6.5189E+07
Sb-127	1.7651E-08	6.6096E-17	3.1342E+08	1.1630E+08
Sb-129	1.3884E-09	2.4689E-19	1.1526E+06	8.8404E+07
Te-127	1.9695E-08	7.4629E-18	3.5388E+07	1.2061E+08
Te-127m	3.5739E-09	3.7889E-16	1.7966E+09	2.1383E+07
Te-129	1.1943E-08	5.7029E-19	2.6623E+06	1.3599E+08
Te-129m	1.1557E-08	3.8363E-16	1.7909E+09	6.9804E+07
Te-131m	2.5508E-08	3.1989E-17	1.4706E+08	2.0657E+08
Te-132	2.5759E-07	8.4846E-16	3.8709E+09	1.7276E+09
I-131	2.0970E-04	1.6915E-12	7.7759E+12	5.1057E+11
I-132	1.7043E-05	1.6511E-15	7.5326E+09	9.4899E+10
I-133	2.1264E-04	1.8771E-13	8.4994E+11	7.0462E+11
I-135	3.6094E-05	1.0278E-14	4.5848E+10	2.8314E+11
Xe-133	7.3983E+00	3.9525E-08	1.7897E+17	1.4426E+16
Xe-133m	1.9064E-01	4.3303E-10	1.9607E+15	3.9667E+14
Xe-135	6.8590E-01	2.6859E-10	1.1981E+15	2.6151E+15
Xe-135m	2.3994E-05	2.6358E-16	1.1758E+09	7.9026E+11
Cs-134	2.8036E-07	2.1669E-13	9.7382E+11	2.1882E+09
Cs-136	8.1206E-08	1.1080E-15	4.9062E+09	6.5275E+08
Cs-137	2.1784E-07	2.5045E-12	1.1009E+13	1.6995E+09
Ba-140	1.5824E-07	2.1614E-15	9.2974E+09	9.7447E+08

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La-140	5.3329E-08	9.5946E-17	4.1271E+08	1.5642E+08
La-141	2.2758E-11	4.0241E-21	1.7187E+04	1.8817E+06
Ce-141	3.8731E-09	1.3593E-16	5.8056E+08	2.3423E+07
Ce-143	2.3237E-09	3.4991E-18	1.4736E+07	1.8295E+07
Ce-144	3.1540E-09	9.8887E-16	4.1355E+09	1.8892E+07
Pr-143	1.5739E-09	2.3372E-17	9.8427E+07	9.2229E+06
Nd-147	5.7661E-10	7.1275E-18	2.9199E+07	3.5676E+06
Np-239	3.3519E-08	1.4448E-16	3.6406E+08	2.3503E+08
Pu-238	9.8248E-12	5.7389E-16	1.4521E+09	5.8770E+04
Pu-239	9.9369E-13	1.5987E-14	4.0282E+10	5.9350E+03
Pu-240	1.7501E-12	7.6838E-16	1.9280E+09	1.0469E+04
Pu-241	3.8877E-10	3.9312E-15	9.8234E+09	2.3258E+06
Am-241	2.2155E-13	6.4671E-17	1.6160E+08	1.3199E+03
Cm-242	6.0171E-11	1.8177E-17	4.5234E+07	3.6077E+05
Cm-244	3.9950E-12	4.8808E-17	1.2046E+08	2.3901E+04

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	1.4172E+18	0.0000E+00	
Elemental I (atoms)	3.4959E+11	0.0000E+00	
Organic I (atoms)	8.2774E+12	0.0000E+00	
Aerosols (kg)	3.1110E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.2824E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.5041E-14	
Total I (Ci)		4.7548E-04	

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.2341E+12
Organic I (atoms)	0.0000E+00	1.3820E+13
Aerosols (kg)	0.0000E+00	2.0389E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3973E+18
Elemental I (atoms)	5.9145E+13	5.9742E+11
Organic I (atoms)	2.8614E+14	2.8903E+12
Aerosols (kg)	3.1813E-10	3.2134E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.9949E+17
Elemental I (atoms)	0.0000E+00	1.1063E+13
Organic I (atoms)	0.0000E+00	5.3524E+13
Aerosols (kg)	0.0000E+00	5.9507E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.9617E+18	0.0000E+00
Elemental I (atoms)	7.7434E+12	0.0000E+00
Organic I (atoms)	3.3089E+13	0.0000E+00
Aerosols (kg)	4.8819E-11	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9369E-01	2.7736E+00	2.7887E-01
Accumulated dose (rem)	5.1032E-01	4.3456E+00	6.4464E-01

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4711E-03	7.0302E-02	9.6301E-03
Accumulated dose (rem)	4.0533E-02	1.6597E-01	4.5697E-02

CR Doses:

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Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7986E-02	4.3066E-01	3.1729E-02
Accumulated dose (rem)	8.4041E-02	1.0331E+00	1.4764E-01

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	1.9029E-07	2.3123E-17	1.6383E+08	3.3447E+14
Kr-85	2.7136E-02	6.9231E-08	4.9049E+17	4.0405E+14
Kr-88	9.8254E-11	7.8357E-21	5.3623E+04	3.5642E+14
Rb-86	3.6271E-10	4.4577E-18	3.1215E+07	2.6665E+07
Rb-88	2.8584E-10	2.3678E-21	1.6204E+04	2.9064E+14
Sr-89	2.1732E-08	7.4804E-16	5.0616E+09	9.3886E+08
Sr-90	2.4554E-09	1.8001E-14	1.2045E+11	1.0179E+08
Sr-91	2.5690E-11	7.0870E-21	4.6900E+04	4.1305E+08
Y-90	1.5868E-09	2.9165E-18	1.9515E+07	2.0199E+07
Y-91	3.4176E-10	1.3936E-17	9.2224E+07	1.3586E+07
Zr-95	3.2530E-10	1.5142E-17	9.5989E+07	1.3931E+07
Zr-97	6.3897E-12	3.3425E-21	2.0751E+04	6.8492E+06
Nb-95	3.3459E-10	8.5567E-18	5.4241E+07	1.3882E+07
Mo-99	1.5646E-09	3.2622E-18	1.9844E+07	1.4226E+08
Tc-99m	1.6041E-09	3.0506E-19	1.8557E+06	1.3292E+08
Ru-103	3.4594E-09	1.0719E-16	6.2671E+08	1.5124E+08
Ru-106	1.5318E-09	4.5786E-16	2.6012E+09	6.3852E+07
Rh-105	4.3282E-10	5.1279E-19	2.9410E+06	7.7696E+07
Sb-127	2.0788E-09	7.7842E-18	3.6912E+07	1.5027E+08
Te-127	2.6983E-09	1.0224E-18	4.8482E+06	1.5968E+08
Te-127m	7.1807E-10	7.6126E-17	3.6098E+08	2.9925E+07
Te-129	1.8989E-09	9.0675E-20	4.2330E+05	1.5416E+08
Te-129m	2.1960E-09	7.2897E-17	3.4031E+08	9.6768E+07
Te-131m	9.7683E-10	1.2250E-18	5.6314E+06	2.4029E+08
Te-132	2.7502E-08	9.0589E-17	4.1329E+08	2.2053E+09
I-131	5.9782E-05	4.8221E-13	2.2168E+12	1.2016E+12
I-132	2.9872E-06	2.8940E-16	1.3203E+09	1.4393E+11
I-133	7.1155E-06	6.2813E-15	2.8441E+10	1.0242E+12
I-135	6.9989E-09	1.9929E-18	8.8902E+06	3.0512E+11
Xe-133	1.9934E+00	1.0649E-08	4.8220E+16	3.9534E+16
Xe-133m	2.9821E-02	6.7737E-11	3.0671E+14	9.1302E+14
Xe-135	1.1270E-03	4.4132E-13	1.9686E+12	3.2228E+15
Xe-135m	4.1535E-09	4.5626E-20	2.0353E+05	8.0786E+11
Cs-134	4.1927E-08	3.2405E-14	1.4563E+11	2.7430E+09
Cs-136	1.0390E-08	1.4177E-16	6.2776E+08	8.0385E+08
Cs-137	3.2662E-08	3.7551E-13	1.6506E+12	2.1310E+09
Ba-140	2.7166E-08	3.7108E-16	1.5962E+09	1.3282E+09
La-140	2.3883E-08	4.2969E-17	1.8483E+08	3.6733E+08
Ce-141	7.3443E-10	2.5775E-17	1.1009E+08	3.2451E+07
Ce-143	1.0351E-10	1.5587E-19	6.5643E+05	2.1508E+07
Ce-144	6.3284E-10	1.9841E-16	8.2978E+08	2.6424E+07
Pr-143	3.0645E-10	4.5509E-18	1.9165E+07	1.2977E+07
Nd-147	9.6436E-11	1.1921E-18	4.8835E+06	4.8428E+06
Np-239	2.8017E-09	1.2077E-17	3.0430E+07	2.9193E+08
Pu-238	1.9864E-12	1.1603E-16	2.9360E+08	8.2307E+04
Pu-239	2.0191E-13	3.2484E-15	8.1850E+09	8.3214E+03
Pu-240	3.5373E-13	1.5531E-16	3.8970E+08	1.4661E+04
Pu-241	7.8547E-11	7.9427E-16	1.9847E+09	3.2569E+06
Am-241	4.5810E-14	1.3372E-17	3.3414E+07	1.8558E+03
Cm-242	1.2008E-11	3.6274E-18	9.0268E+06	5.0411E+05
Cm-244	8.0722E-13	9.8620E-18	2.4340E+07	3.3469E+04

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	5.3902E+17	0.0000E+00
Elemental I (atoms)	1.1314E+10	0.0000E+00
Organic I (atoms)	2.2294E+12	0.0000E+00
Aerosols (kg)	4.3392E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.6526E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.7275E-15
Total I (Ci)		6.9892E-05

Deposition Recirculating

Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.5377E+12
Organic I (atoms)	0.0000E+00	3.5055E+13

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Aerosols (kg) 0.0000E+00 2.5093E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3728E+19
Elemental I (atoms)	6.2739E+13	6.3373E+11
Organic I (atoms)	6.2646E+14	6.3278E+12
Aerosols (kg)	3.8552E-10	3.8942E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5422E+18
Elemental I (atoms)	0.0000E+00	1.1736E+13
Organic I (atoms)	0.0000E+00	1.1718E+14
Aerosols (kg)	0.0000E+00	7.2114E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	1.5687E+19	0.0000E+00
Elemental I (atoms)	8.4703E+12	0.0000E+00
Organic I (atoms)	8.3933E+13	0.0000E+00
Aerosols (kg)	6.0080E-11	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1777E-01	7.3542E+00	5.4350E-01
Accumulated dose (rem)	8.2809E-01	1.1700E+01	1.1881E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5515E-03	5.4013E-02	5.2095E-03
Accumulated dose (rem)	4.4085E-02	2.1998E-01	5.0906E-02

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3359E-02	5.4802E-01	3.0178E-02
Accumulated dose (rem)	9.7400E-02	1.5811E+00	1.7782E-01

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	1.6850E-02	4.2988E-08	3.0457E+17	1.9765E+15
Rb-86	8.4662E-11	1.0405E-18	7.2861E+06	4.0185E+07
Sr-89	9.3933E-09	3.2332E-16	2.1877E+09	1.9966E+09
Sr-90	1.5139E-09	1.1098E-14	7.4260E+10	2.4282E+08
Y-90	1.5218E-09	2.7971E-18	1.8716E+07	1.5311E+08
Y-91	1.5513E-10	6.3257E-18	4.1862E+07	3.0594E+07
Zr-95	1.5158E-10	7.0560E-18	4.4729E+07	3.0314E+07
Nb-95	1.9248E-10	4.9223E-18	3.1203E+07	3.2610E+07
Mo-99	1.3772E-12	2.8715E-21	1.7467E+04	1.5714E+08
Ru-103	1.3504E-09	4.1840E-17	2.4463E+08	3.1210E+08
Ru-106	9.0083E-10	2.6926E-16	1.5297E+09	1.4986E+08
Sb-127	1.1901E-11	4.4564E-20	2.1131E+05	1.7736E+08
Te-127	4.0206E-10	1.5235E-19	7.2240E+05	2.2254E+08
Te-127m	3.8298E-10	4.0602E-17	1.9253E+08	6.8637E+07
Te-129	6.8591E-10	3.2752E-20	1.5290E+05	2.1843E+08
Te-129m	7.9322E-10	2.6331E-17	1.2292E+08	1.9546E+08
Te-132	6.7295E-11	2.2166E-19	1.0113E+06	2.5123E+09
I-131	3.9634E-06	3.1969E-14	1.4697E+11	2.6399E+12
I-132	7.3657E-09	7.1358E-19	3.2555E+06	1.8269E+11
Xe-133	4.0472E-02	2.1622E-10	9.7901E+14	7.4241E+16
Xe-133m	5.7523E-06	1.3066E-14	5.9161E+10	1.1478E+15
Cs-134	2.5100E-08	1.9400E-14	8.7185E+10	5.1089E+09
Cs-136	1.6097E-09	2.1963E-17	9.7252E+07	1.1344E+09
Cs-137	1.9994E-08	2.2986E-13	1.0104E+12	3.9939E+09

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Ba-140	4.0773E-09	5.5695E-17	2.3957E+08	2.1859E+09
La-140	4.7363E-09	8.5211E-18	3.6654E+07	1.3108E+09
Ce-141	2.6051E-10	9.1430E-18	3.9050E+07	6.5197E+07
Ce-144	3.6683E-10	1.1501E-16	4.8098E+08	6.1713E+07
Pr-143	5.2013E-11	7.7241E-19	3.2528E+06	2.3287E+07
Nd-147	1.1538E-11	1.4262E-19	5.8426E+05	7.6484E+06
Pu-238	1.2301E-12	7.1850E-17	1.8180E+08	1.9664E+05
Pu-239	1.2516E-13	2.0136E-15	5.0737E+09	1.9964E+04
Pu-240	2.1848E-13	9.5925E-17	2.4070E+08	3.4995E+04
Pu-241	4.8350E-11	4.8892E-16	1.2217E+09	7.7647E+06
Am-241	3.3806E-14	9.8681E-18	2.4659E+07	4.7356E+03
Cm-242	6.6395E-12	2.0057E-18	4.9913E+06	1.1589E+06
Cm-244	4.9715E-13	6.0738E-18	1.4991E+07	7.9806E+04

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	3.0555E+17	0.0000E+00	
Elemental I (atoms)	6.8168E+08	0.0000E+00	
Organic I (atoms)	1.4591E+11	0.0000E+00	
Aerosols (kg)	2.6407E-13	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.6737E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.6739E-16
Total I (Ci)			3.9708E-06

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.7352E+12
Organic I (atoms)	0.0000E+00	7.7080E+13
Aerosols (kg)	0.0000E+00	4.4590E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0295E+19
Elemental I (atoms)	6.6122E+13	6.6790E+11
Organic I (atoms)	1.3470E+15	1.3606E+13
Aerosols (kg)	7.2035E-10	7.2763E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1166E+19
Elemental I (atoms)	0.0000E+00	1.2369E+13
Organic I (atoms)	0.0000E+00	2.5196E+14
Aerosols (kg)	0.0000E+00	1.3475E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	7.1075E+19	0.0000E+00
Elemental I (atoms)	8.9433E+12	0.0000E+00
Organic I (atoms)	1.8455E+14	0.0000E+00
Aerosols (kg)	1.0676E-10	0.0000E+00

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I-131 Summary
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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4751E-02
0.017	1.8470E+05	0.0000E+00	3.1395E+01
0.083	9.2044E+05	0.0000E+00	7.8060E+02
0.333	3.6817E+06	0.0000E+00	1.2120E+03
0.500	6.8012E+05	0.0000E+00	1.3959E+03
0.750	9.4093E+05	0.0000E+00	1.5615E+03
1.000	9.4889E+05	0.0000E+00	1.7377E+03
1.400	9.5870E+05	0.0000E+00	2.0221E+03

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1.700	9.6603E+05	0.0000E+00	2.2371E+03
2.000	9.7334E+05	0.0000E+00	2.4536E+03
2.250	5.9162E+04	4.0983E+04	2.5052E+03
2.400	6.0403E+04	3.7668E+04	2.5135E+03
2.700	6.0349E+04	3.7597E+04	2.5299E+03
3.000	6.0272E+04	3.7549E+04	2.5463E+03
3.300	6.0196E+04	3.7501E+04	2.5627E+03
3.600	6.0119E+04	3.7454E+04	2.5790E+03
3.900	6.0043E+04	3.7406E+04	2.5953E+03
4.000	6.0017E+04	3.7390E+04	2.6007E+03
4.300	5.9941E+04	3.7343E+04	2.6169E+03
4.600	5.9865E+04	3.7295E+04	2.6331E+03
4.900	5.9789E+04	3.7248E+04	2.6493E+03
5.200	5.9713E+04	3.7200E+04	2.6654E+03
5.500	5.9637E+04	3.7153E+04	2.6814E+03
5.800	5.9561E+04	3.7106E+04	2.6974E+03
6.100	5.9485E+04	3.7058E+04	2.7134E+03
6.400	5.9409E+04	3.7011E+04	2.7293E+03
6.700	5.9334E+04	3.6964E+04	2.7452E+03
7.000	5.9258E+04	3.6917E+04	2.7611E+03
7.300	5.9183E+04	3.6870E+04	2.7769E+03
7.600	5.9107E+04	3.6823E+04	2.7927E+03
7.900	5.9032E+04	3.6776E+04	2.8084E+03
8.000	5.9007E+04	3.6761E+04	2.8136E+03
8.300	5.8932E+04	3.6714E+04	2.8293E+03
8.600	5.8857E+04	3.6667E+04	2.8449E+03
8.900	5.8782E+04	3.6621E+04	2.8605E+03
9.200	5.8707E+04	3.6574E+04	2.8761E+03
9.500	5.8632E+04	3.6527E+04	2.8916E+03
9.800	5.8558E+04	3.6481E+04	2.9071E+03
10.100	5.8483E+04	3.6434E+04	2.9225E+03
10.400	5.8409E+04	3.6388E+04	2.9379E+03
16.000	5.7035E+04	3.5532E+04	3.2179E+03
24.000	5.5126E+04	3.4343E+04	3.5946E+03
96.000	4.1555E+04	2.5888E+04	4.3816E+03
720.000	3.5475E+03	2.2101E+03	1.7755E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSL Volume 1 I-131 (Curies)
0.000	7.3526E-18	5.1009E-21	1.1264E-04
0.017	1.7084E-10	1.1847E-13	9.1531E-02
0.083	4.2925E-07	7.8150E-11	1.5555E+00
0.333	2.4869E-04	4.4478E-08	1.0247E+01
0.500	1.3930E-03	2.4608E-07	3.3483E+00
0.750	6.0782E-03	1.0491E-06	3.0479E+00
1.000	1.5241E-02	2.5668E-06	3.0941E+00
1.400	4.2056E-02	6.8219E-06	3.1265E+00
1.700	7.4741E-02	1.1805E-05	3.1504E+00
2.000	1.2094E-01	1.8623E-05	3.1743E+00
2.250	1.7153E-01	2.2888E-05	3.0936E-01
2.400	2.0743E-01	2.5917E-05	2.0312E-01
2.700	2.9152E-01	3.2931E-05	1.9711E-01
3.000	3.9168E-01	4.1069E-05	1.9685E-01
3.300	5.0748E-01	5.0168E-05	1.9660E-01
3.600	6.3852E-01	6.0083E-05	1.9635E-01
3.900	7.8437E-01	7.0681E-05	1.9610E-01
4.000	8.3621E-01	7.4345E-05	1.9601E-01
4.300	1.0012E+00	8.5674E-05	1.9576E-01
4.600	1.1800E+00	9.7430E-05	1.9552E-01
4.900	1.3722E+00	1.0952E-04	1.9527E-01
5.200	1.5775E+00	1.2187E-04	1.9502E-01
5.500	1.7954E+00	1.3440E-04	1.9477E-01
5.800	2.0255E+00	1.4704E-04	1.9452E-01
6.100	2.2674E+00	1.5975E-04	1.9427E-01
6.400	2.5208E+00	1.7247E-04	1.9403E-01
6.700	2.7853E+00	1.8515E-04	1.9378E-01
7.000	3.0605E+00	1.9777E-04	1.9353E-01
7.300	3.3460E+00	2.1027E-04	1.9329E-01
7.600	3.6415E+00	2.2264E-04	1.9304E-01
7.900	3.9467E+00	2.3485E-04	1.9280E-01
8.000	4.0505E+00	2.3888E-04	1.9271E-01
8.300	4.3680E+00	2.2796E-04	1.9247E-01
8.600	4.6944E+00	2.1855E-04	1.9222E-01
8.900	5.0293E+00	2.1046E-04	1.9198E-01

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9.200	5.3725E+00	2.0356E-04	1.9173E-01
9.500	5.7237E+00	1.9771E-04	1.9149E-01
9.800	6.0825E+00	1.9279E-04	1.9125E-01
10.100	6.4487E+00	1.8868E-04	1.9100E-01
10.400	6.8221E+00	1.8531E-04	1.9076E-01
16.000	1.4797E+01	1.8431E-04	1.8627E-01
24.000	2.8024E+01	2.0970E-04	1.8004E-01
96.000	8.5165E+01	5.9782E-05	1.3572E-01
720.000	2.4752E+02	3.9634E-06	1.1586E-02

Time (hr)	MSL Volume 2 I-131 (Curies)	MSL Volume 3 I-131 (Curies)
0.000	4.2341E-07	2.0092E-11
0.017	1.0603E-02	1.5363E-05
0.083	9.7682E-01	7.4511E-03
0.333	2.9381E+01	9.9494E-01
0.500	5.0124E+01	3.3530E+00
0.750	6.0360E+01	7.9051E+00
1.000	7.0324E+01	1.3173E+01
1.400	8.4830E+01	2.2927E+01
1.700	9.4630E+01	3.1153E+01
2.000	1.0360E+02	4.0032E+01
2.250	1.0098E+02	4.7546E+01
2.400	9.6578E+01	5.1710E+01
2.700	8.8227E+01	5.9167E+01
3.000	8.0691E+01	6.5560E+01
3.300	7.3894E+01	7.1007E+01
3.600	6.7764E+01	7.5612E+01
3.900	6.2236E+01	7.9467E+01
4.000	6.0516E+01	8.0601E+01
4.300	5.5698E+01	8.3587E+01
4.600	5.1352E+01	8.6007E+01
4.900	4.7433E+01	8.7926E+01
5.200	4.3897E+01	8.9403E+01
5.500	4.0707E+01	9.0489E+01
5.800	3.7830E+01	9.1232E+01
6.100	3.5234E+01	9.1673E+01
6.400	3.2891E+01	9.1851E+01
6.700	3.0778E+01	9.1799E+01
7.000	2.8871E+01	9.1546E+01
7.300	2.7150E+01	9.1120E+01
7.600	2.5597E+01	9.0545E+01
7.900	2.4195E+01	8.9841E+01
8.000	2.3759E+01	8.9581E+01
8.300	2.2536E+01	8.8736E+01
8.600	2.1432E+01	8.7804E+01
8.900	2.0435E+01	8.6799E+01
9.200	1.9534E+01	8.5735E+01
9.500	1.8721E+01	8.4622E+01
9.800	1.7986E+01	8.3471E+01
10.100	1.7322E+01	8.2290E+01
10.400	1.6722E+01	8.1087E+01
16.000	1.1863E+01	5.9934E+01
24.000	1.0764E+01	4.2360E+01
96.000	8.0769E+00	2.3882E+01
720.000	6.8952E-01	2.0280E+00

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Cumulative Dose Summary

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	EAB		LPZ		CR	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.0871E-11	1.0767E-12	1.4799E-12	1.4657E-13	8.3786E-14	3.0993E-15
0.083	2.7292E-08	2.5823E-09	3.7154E-09	3.5154E-10	2.0721E-10	1.1582E-11
0.333	1.5768E-05	1.3043E-06	2.1466E-06	1.7756E-07	4.8657E-07	2.5461E-08
0.500	8.8165E-05	6.9550E-06	1.2002E-05	9.4681E-07	4.2199E-06	2.1551E-07
0.750	3.8377E-04	3.2558E-05	5.2244E-05	4.4322E-06	3.0455E-05	1.5977E-06
1.000	9.6016E-04	1.0116E-04	1.3071E-04	1.3771E-05	1.0732E-04	6.2650E-06
1.400	2.6422E-03	4.2427E-04	3.5969E-04	5.7758E-05	4.2400E-04	3.3005E-05
1.700	4.6846E-03	9.7402E-04	6.3773E-04	1.3260E-04	9.0723E-04	8.9624E-05
2.000	7.5616E-03	1.9260E-03	1.0294E-03	2.6219E-04	1.6976E-03	2.0769E-04

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2.250 1.0702E-02 3.1111E-03 1.4570E-03 4.2352E-04 2.5995E-03 3.6877E-04
 2.400 1.2926E-02 4.0057E-03 1.7597E-03 5.4531E-04 3.2363E-03 4.9380E-04
 2.700 1.8122E-02 6.2082E-03 2.4670E-03 8.4516E-04 4.7655E-03 8.2129E-04
 3.000 2.4289E-02 8.9389E-03 3.3066E-03 1.2169E-03 6.6850E-03 1.2761E-03
 3.300 3.1397E-02 1.2168E-02 4.2742E-03 1.6564E-03 9.0467E-03 1.8796E-03
 3.600 3.9413E-02 1.5858E-02 5.3655E-03 2.1589E-03 1.1894E-02 2.6495E-03
 3.900 4.8307E-02 1.9971E-02 6.5763E-03 2.7187E-03 1.5262E-02 3.5987E-03
 4.000 5.1462E-02 2.1428E-02 7.0057E-03 2.9171E-03 1.6506E-02 3.9565E-03
 4.300 6.1478E-02 2.6038E-02 8.3693E-03 3.5447E-03 2.0612E-02 5.1573E-03
 4.600 7.2302E-02 3.0973E-02 9.8428E-03 4.2165E-03 2.5299E-02 6.5508E-03
 4.900 8.3904E-02 3.6192E-02 1.1422E-02 4.9270E-03 3.0581E-02 8.1361E-03
 5.200 9.6254E-02 4.1657E-02 1.3104E-02 5.6710E-03 3.6469E-02 9.9096E-03
 5.500 1.0933E-01 4.7332E-02 1.4883E-02 6.4435E-03 4.2972E-02 1.1865E-02
 5.800 1.2309E-01 5.3183E-02 1.6757E-02 7.2400E-03 5.0093E-02 1.3993E-02
 6.100 1.3752E-01 5.9179E-02 1.8721E-02 8.0562E-03 5.7833E-02 1.6285E-02
 6.400 1.5259E-01 6.5291E-02 2.0773E-02 8.8884E-03 6.6190E-02 1.8729E-02
 6.700 1.6828E-01 7.1495E-02 2.2909E-02 9.7329E-03 7.5161E-02 2.1313E-02
 7.000 1.8456E-01 7.7767E-02 2.5125E-02 1.0587E-02 8.4739E-02 2.4026E-02
 7.300 2.0140E-01 8.4087E-02 2.7418E-02 1.1447E-02 9.4916E-02 2.6853E-02
 7.600 2.1879E-01 9.0435E-02 2.9784E-02 1.2311E-02 1.0568E-01 2.9784E-02
 7.900 2.3669E-01 9.6797E-02 3.2222E-02 1.3177E-02 1.1703E-01 3.2805E-02
 8.000 2.4278E-01 9.8918E-02 3.3050E-02 1.3466E-02 1.2094E-01 3.3830E-02
 8.300 2.6134E-01 1.0528E-01 3.3925E-02 1.4022E-02 1.3247E-01 3.6853E-02
 8.600 2.8038E-01 1.1161E-01 3.4822E-02 1.4576E-02 1.4348E-01 3.9721E-02
 8.900 2.9987E-01 1.1793E-01 3.5740E-02 1.5127E-02 1.5402E-01 4.2424E-02
 9.200 3.1979E-01 1.2420E-01 3.6678E-02 1.5674E-02 1.6417E-01 4.4967E-02
 9.500 3.4013E-01 1.3043E-01 3.7636E-02 1.6216E-02 1.7398E-01 4.7364E-02
 9.800 3.6086E-01 1.3662E-01 3.8613E-02 1.6754E-02 1.8350E-01 4.9630E-02
 10.100 3.8196E-01 1.4274E-01 3.9607E-02 1.7285E-02 1.9278E-01 5.1778E-02
 10.400 4.0343E-01 1.4881E-01 4.0618E-02 1.7811E-02 2.0186E-01 5.3822E-02
 16.000 8.5369E-01 2.5178E-01 6.1828E-02 2.6617E-02 3.6089E-01 8.4744E-02
 24.000 1.5720E+00 3.6577E-01 9.5665E-02 3.6067E-02 6.0245E-01 1.1591E-01
 96.000 4.3456E+00 6.4464E-01 1.6597E-01 4.5697E-02 1.0331E+00 1.4764E-01
 720.000 1.1700E+01 1.1881E+00 2.1998E-01 5.0906E-02 1.5811E+00 1.7782E-01

 Worst Two-Hour Doses
 #####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
7.0	3.8400E-02	1.2196E-01	4.2252E-02

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NMP2 MSL B MSLB.out

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:30:12
#####

#####
File information
#####

Plant file      = C:\radtrad3.03\NMP2\Rev 4\NMP2 MSL B MSLB.psf
Inventory file  = c:\radtrad3.03\nmp2\nmp2.nif
Release file    = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      # #      # #      # #      # #      # #      # #      #
# #      #####      # #      # #      # #      #####      #
```

```
Radtrad 3.03 4/15/2001
NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartment 1:
8
3
3.0620E+05
1
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
0
0
```

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---------------------------------	-------------------	---------------------

Compartment 5:

CR

1

3.8100E+05

0

0

1

0

0

Compartment 6:

MSL Volume 1

3

1.0000E+00

0

0

0

0

0

Compartment 7:

MSL Volume 2

3

6.5450E+01

0

0

0

0

0

Compartment 8:

MSL Volume 3

3

4.2816E+02

0

0

0

0

0

Pathways:

14

Pathway 1:

DW to WW

1

2

4

Pathway 2:

WW to DW

2

1

4

Pathway 3:

DW Leakage to RB (Released to Dummy)

1

3

2

Pathway 4:

WW Leakage to RB (Released to Dummy)

2

3

2

Pathway 5:

DW Bypass Pathway 5 to Environment (Released to Dummy)

1

3

2

Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2

3

2

Pathway 7:

DW to MSL Volume 1

1

6

2

Pathway 8:

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MSL Volume 1 to MSL Volume 2

6
7
2

Pathway 9:

MSL Volume 2 to MSL Volume 3

7
8
2

Pathway 10:

MSL Volume 3 to Environment

8
4
2

Pathway 11:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 12:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 13:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 14:

DW to Dummy other MSL flows

1
3
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

8

Compartment 1:

0
1
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 0.0000E+00
2.4000E+00 0.0000E+00
7.2000E+02 0.0000E+00
1
0.0000E+00
5
0.0000E+00 0.0000E+00
3.3330E-01 1.9800E+01
2.2500E+00 1.9800E+01
2.4000E+00 0.0000E+00

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7.2000E+02 0.0000E+00

1

0.0000E+00

0

0

0

0

0

Compartment 2:

0

1

0

0

0

0

0

0

0

Compartment 3:

0

1

0

0

0

0

0

0

0

Compartment 4:

0

1

0

0

0

0

0

0

0

Compartment 5:

1

1

0

0

0

0

1

6.7500E+02

3

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

1.6700E-02 9.9000E+01 9.9000E+01 9.9000E+01

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00

0

0

Compartment 6:

0

1

0

0

0

0

0

0

0

Compartment 7:

0

1

0

0

0

0

0

0

0

Compartment 8:

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```

0
1
0
0
0
0
0
0
0
0
Pathways:
14
Pathway 1:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  8.9710E+04
7.2000E+02  0.0000E+00
0
Pathway 2:
0
0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  1.4400E+05
7.2000E+02  0.0000E+00
0
Pathway 3:
0
0
0
0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00

```

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 863
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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5

0.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 5.0000E+01 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5

0.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 5.0000E+01 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 5.0000E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 7:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 8:

0
0
0
0
0
1
3

0.0000E+00 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.6900E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0

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```

0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
3
0.0000E+00  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.6900E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00  8.3300E-01  9.9760E+01  5.0000E+01  0.0000E+00
2.4000E+01  4.1700E-01  9.9760E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0

```

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```

0
0
0
Pathway 13:
0
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
0
1
3
0.0000E+00  1.0140E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  5.0700E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4
1
5
0.0000E+00  1.6200E-05
8.0000E+00  1.0900E-05
2.4000E+01  4.5900E-06
9.6000E+01  1.3300E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1
2

```

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```
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00
2.4000E+01  2.0000E+00
9.6000E+01  5.0000E+00
7.2000E+02  0.0000E+00
Output Filename:
C:\radtrad3.o649
1
1
1
0
0
End of Scenario File
```

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:30:12
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 8

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSL Volume 1

Exit Pathway Number 14: DW to Dummy other MSL flows

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Inlet Pathway Number 14: DW to Dummy other MSL flows

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 10: MSL Volume 3 to Environment

Inlet Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Exit Pathway Number 11: CR Filtered Intake (Pathway 9)

Exit Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 11: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 12: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 13: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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---------------------------------	-------------------	---------------------

Name: MSL Volume 1
Compartment volume = 1.0000E+00 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSL Volume 1
Exit Pathway Number 8: MSL Volume 1 to MSL Volume 2

Compartment number 7
Name: MSL Volume 2
Compartment volume = 6.5450E+01 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSL Volume 1 to MSL Volume 2
Exit Pathway Number 9: MSL Volume 2 to MSL Volume 3

Compartment number 8
Name: MSL Volume 3
Compartment volume = 4.2816E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 9: MSL Volume 2 to MSL Volume 3
Exit Pathway Number 10: MSL Volume 3 to Environment

Total number of pathways = 14

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:30:12
 #####
 #####
 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSL Volume 1

Compartment number 7: MSL Volume 2

Compartment number 8: MSL Volume 3

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSL Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSL Volume 1 to MSL Volume 2

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSL Volume 2 to MSL Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.6900E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: MSL Volume 3 to Environment

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	8.3300E-01	9.9760E+01	5.0000E+01	0.0000E+00
2.4000E+01	4.1700E-01	9.9760E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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Pathway number 12: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: DW to Dummy other MSL flows

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0140E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	5.0700E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

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Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 10:30:12
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#####
Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5526E-13	9.8036E-12	9.7442E-13	
Accumulated dose (rem)	6.5526E-13	9.8036E-12	9.7442E-13	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.9204E-14	1.3346E-12	1.3265E-13	
Accumulated dose (rem)	8.9204E-14	1.3346E-12	1.3265E-13	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3153E-16	7.5562E-14	2.7919E-15	
Accumulated dose (rem)	3.3153E-16	7.5562E-14	2.7919E-15	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-85	6.4610E-14	1.6483E-19	1.1678E+06	6.3685E-02	
Xe-133	7.9043E-12	4.2228E-20	1.9120E+05	7.7912E+00	
Cs-137	1.6347E-15	1.8794E-20	8.2613E+04	1.6113E-03	

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	1.3716E+06	0.0000E+00	
Elemental I (atoms)	4.5189E+03	0.0000E+00	
Organic I (atoms)	2.7952E+02	0.0000E+00	
Aerosols (kg)	2.0524E-20	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3990E-23	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.7916E-23	
Total I (Ci)		9.4298E-13	

	Deposition	Recirculating
Time (h) =	0.0167	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0291E+06
Elemental I (atoms)	0.0000E+00	3.3913E+03
Organic I (atoms)	0.0000E+00	2.0977E+02
Aerosols (kg)	0.0000E+00	1.5399E-20

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) =	0.0167	
Noble gases (atoms)	0.0000E+00	3.4305E+05
Elemental I (atoms)	0.0000E+00	1.1304E+03
Organic I (atoms)	0.0000E+00	6.9923E+01
Aerosols (kg)	0.0000E+00	5.1331E-21

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) =	0.0167	
Noble gases (atoms)	6.7198E+02	0.0000E+00
Elemental I (atoms)	2.2143E+00	0.0000E+00
Organic I (atoms)	1.3697E-01	0.0000E+00
Aerosols (kg)	1.0055E-23	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0833		
Delta dose (rem)	1.5355E-09	2.4613E-08	2.3365E-09
Accumulated dose (rem)	1.5362E-09	2.4622E-08	2.3375E-09

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0833		
Delta dose (rem)	2.0904E-10	3.3506E-09	3.1808E-10
Accumulated dose (rem)	2.0912E-10	3.3520E-09	3.1822E-10

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0833		
Delta dose (rem)	4.3252E-12	1.8685E-10	1.0462E-11
Accumulated dose (rem)	4.3256E-12	1.8692E-10	1.0465E-11

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.0833			
Kr-83m	2.2060E-09	1.0868E-19	7.8851E+05	5.6733E+03
Kr-85m	5.0587E-09	6.1470E-19	4.3551E+06	1.2970E+04
Kr-85	2.5902E-10	6.6083E-16	4.6819E+09	6.6273E+02
Kr-87	9.8796E-09	3.4879E-19	2.4143E+06	2.5468E+04
Kr-88	1.3764E-08	1.0977E-18	7.5119E+06	3.5335E+04
Rb-88	6.1333E-10	5.0807E-21	3.4769E+04	7.6667E+02
I-131	7.0509E-11	5.6874E-19	2.6145E+06	1.8109E+02
I-132	1.0046E-10	9.7322E-21	4.4401E+04	2.5895E+02
I-133	1.4584E-10	1.2874E-19	5.8294E+05	3.7471E+02
I-134	1.5707E-10	5.8881E-21	2.6462E+04	4.0785E+02
I-135	1.3701E-10	3.9012E-20	1.7403E+05	3.5236E+02
Xe-133	3.1687E-08	1.6928E-16	7.6650E+08	8.1074E+04
Xe-133m	9.7176E-10	2.2073E-18	9.9943E+06	2.4865E+03
Xe-135	1.3395E-08	5.2455E-18	2.3399E+07	3.4246E+04
Xe-135m	5.9336E-09	6.5181E-20	2.9076E+05	1.5504E+04
Xe-138	2.2276E-08	2.3216E-19	1.0131E+06	5.9365E+04
Cs-134	1.3898E-12	1.0742E-18	4.8276E+06	3.5693E+00
Cs-136	4.2398E-13	5.7849E-21	2.5616E+04	1.0889E+00
Cs-137	1.0790E-12	1.2405E-17	5.4529E+07	2.7711E+00

CR Transport Group Inventory:

	Atmosphere	Sump
Time (h) =	0.0833	
Noble gases (atoms)	5.4982E+09	0.0000E+00
Elemental I (atoms)	2.9781E+06	0.0000E+00
Organic I (atoms)	1.8421E+05	0.0000E+00
Aerosols (kg)	1.3552E-17	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.2231E-21
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.1789E-20
Total I (Ci)		6.1089E-10

	Deposition Surfaces	Recirculating Filter
Time (h) =	0.0833	
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.5403E+03
Organic I (atoms)	0.0000E+00	2.8085E+02
Aerosols (kg)	0.0000E+00	2.0649E-20

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CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6560E+09
Elemental I (atoms)	1.5167E+07	1.5660E+05
Organic I (atoms)	9.3819E+05	9.6864E+03
Aerosols (kg)	6.8960E-17	7.1197E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.6237E+08
Elemental I (atoms)	0.0000E+00	2.8383E+06
Organic I (atoms)	0.0000E+00	1.7556E+05
Aerosols (kg)	0.0000E+00	1.2905E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	1.9968E+07	0.0000E+00
Elemental I (atoms)	1.0873E+04	0.0000E+00
Organic I (atoms)	6.7257E+02	0.0000E+00
Aerosols (kg)	4.9451E-20	0.0000E+00

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.1712E-07	1.4222E-05	1.1795E-06
Accumulated dose (rem)		7.1866E-07	1.4246E-05	1.1818E-06

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.7625E-08	1.9361E-06	1.6057E-07
Accumulated dose (rem)		9.7834E-08	1.9394E-06	1.6089E-07

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.2366E-09	4.3929E-07	2.3013E-08
Accumulated dose (rem)		8.2410E-09	4.3948E-07	2.3024E-08

CR Compartment Nuclide Inventory:

Time (h) =	0.3333	Ci	kg	Atoms	Decay
Kr-83m		1.1535E-06	5.6825E-17	4.1230E+08	1.0389E+07
Kr-85m		2.7932E-06	3.3942E-16	2.4047E+09	2.4869E+07
Kr-85		1.4867E-07	3.7928E-13	2.6871E+12	1.3129E+06
Kr-87		4.9480E-06	1.7468E-16	1.2091E+09	4.4977E+07
Kr-88		7.4322E-06	5.9272E-16	4.0562E+09	6.6485E+07
Rb-86		7.9244E-12	9.7391E-20	6.8198E+05	7.0055E+01
Rb-88		1.0395E-06	8.6107E-18	5.8926E+07	6.7086E+06
I-131		4.0188E-08	3.2416E-16	1.4902E+09	3.5531E+05
I-132		5.3880E-08	5.2199E-18	2.3814E+07	4.8260E+05
I-133		8.2506E-08	7.2833E-17	3.2978E+08	7.3060E+05
I-134		7.3534E-08	2.7565E-18	1.2388E+07	6.7798E+05
I-135		7.6134E-08	2.1679E-17	9.6707E+07	6.7672E+05
Xe-133		1.8182E-05	9.7134E-14	4.3981E+11	1.6058E+08
Xe-133m		5.5731E-07	1.2659E-15	5.7318E+09	4.9228E+06
Xe-135		7.8229E-06	3.0633E-15	1.3665E+10	6.8875E+07
Xe-135m		2.6577E-06	2.9195E-17	1.3023E+08	2.4867E+07
Xe-138		6.1477E-06	6.4071E-17	2.7960E+08	6.3875E+07
Cs-134		7.9284E-10	6.1279E-16	2.7540E+09	7.0084E+03
Cs-136		2.4173E-10	3.2982E-18	1.4605E+07	2.1371E+03
Cs-137		6.1554E-10	7.0766E-15	3.1107E+10	5.4411E+03

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)		3.1548E+12	0.0000E+00
Elemental I (atoms)		1.6895E+09	0.0000E+00
Organic I (atoms)		1.0451E+08	0.0000E+00

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Aerosols (kg)	7.7361E-15	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.2387E-18
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.6525E-18
Total I (Ci)			3.2624E-07

	Deposition	Recirculating
Time (h) = 0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0931E+07
Organic I (atoms)	0.0000E+00	6.7614E+05
Aerosols (kg)	0.0000E+00	4.9979E-17

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7034E+12
Elemental I (atoms)	8.7704E+09	8.8593E+07
Organic I (atoms)	5.4250E+08	5.4800E+06
Aerosols (kg)	4.0055E-14	4.0461E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0063E+11
Elemental I (atoms)	0.0000E+00	1.6406E+09
Organic I (atoms)	0.0000E+00	1.0148E+08
Aerosols (kg)	0.0000E+00	7.4925E-15

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.3333	Filtered	Transported
Noble gases (atoms)	4.8764E+10	0.0000E+00
Elemental I (atoms)	2.6172E+07	0.0000E+00
Organic I (atoms)	1.6189E+06	0.0000E+00
Aerosols (kg)	1.1967E-16	0.0000E+00

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9976E-06	6.5494E-05	5.1253E-06
Accumulated dose (rem)	3.7163E-06	7.9740E-05	6.3071E-06

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0808E-07	8.9160E-06	6.9773E-07
Accumulated dose (rem)	5.0591E-07	1.0855E-05	8.5862E-07

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.6725E-08	3.3752E-06	1.7200E-07
Accumulated dose (rem)	6.4965E-08	3.8147E-06	1.9502E-07

CR Compartment Nuclide Inventory:

Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	6.2328E-06	3.0704E-16	2.2278E+09	8.4877E+07
Kr-85m	1.5651E-05	1.9018E-15	1.3474E+10	2.0942E+08
Kr-85	8.5478E-07	2.1807E-12	1.5450E+13	1.1297E+07
Kr-87	2.5978E-05	9.1712E-16	6.3483E+09	3.5878E+08
Kr-88	4.1029E-05	3.2720E-15	2.2392E+10	5.5294E+08
Rb-86	4.3820E-11	5.3855E-19	3.7712E+06	5.9331E+02
Rb-88	8.0875E-06	6.6996E-17	4.5848E+08	8.2732E+07
I-131	2.2258E-07	1.7954E-15	8.2535E+09	3.0105E+06
I-132	2.8649E-07	2.7755E-17	1.2662E+08	3.9539E+06
I-133	4.5470E-07	4.0139E-16	1.8175E+09	6.1647E+06
I-134	3.5719E-07	1.3390E-17	6.0174E+07	5.1535E+06
I-135	4.1461E-07	1.1806E-16	5.2665E+08	5.6536E+06
Xe-133	1.0452E-04	5.5837E-13	2.5283E+12	1.3815E+09
Xe-133m	3.2025E-06	7.2742E-15	3.2937E+10	4.2339E+07

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Xe-135	4.5411E-05	1.7782E-14	7.9324E+10	5.9778E+08
Xe-135m	1.3162E-05	1.4458E-16	6.4496E+08	1.8906E+08
Xe-138	2.1693E-05	2.2608E-16	9.8659E+08	3.6959E+08
Cs-134	4.3853E-09	3.3894E-15	1.5232E+10	5.9369E+04
Cs-136	1.3366E-09	1.8236E-17	8.0752E+07	1.8098E+04
Cs-137	3.4046E-09	3.9142E-14	1.7206E+11	4.6092E+04

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	1.8137E+13	0.0000E+00	
Elemental I (atoms)	9.3122E+09	0.0000E+00	
Organic I (atoms)	5.9678E+08	0.0000E+00	
Aerosols (kg)	4.2808E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.8950E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.6616E-17	
Total I (Ci)		1.7356E-06	

	Deposition	Recirculating
Time (h) =	0.5000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	9.4861E+07
Organic I (atoms)	0.0000E+00	5.9359E+06
Aerosols (kg)	0.0000E+00	4.3517E-16

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5669E+13
Elemental I (atoms)	4.8970E+10	4.9465E+08
Organic I (atoms)	3.1357E+09	3.1674E+07
Aerosols (kg)	2.2427E-13	2.2654E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.9017E+12
Elemental I (atoms)	0.0000E+00	9.1602E+09
Organic I (atoms)	0.0000E+00	5.8655E+08
Aerosols (kg)	0.0000E+00	4.1952E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	4.3053E+11	0.0000E+00
Elemental I (atoms)	2.2713E+08	0.0000E+00
Organic I (atoms)	1.4213E+07	0.0000E+00
Aerosols (kg)	1.0419E-15	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5365E-03	6.8425E-03	1.7582E-03
Accumulated dose (rem)		1.5402E-03	6.9223E-03	1.7645E-03

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0917E-04	9.3151E-04	2.3936E-04
Accumulated dose (rem)		2.0968E-04	9.4236E-04	2.4021E-04

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0548E-04	1.5460E-03	1.8966E-04
Accumulated dose (rem)		1.0554E-04	1.5498E-03	1.8986E-04

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m		2.6643E-03	1.3125E-13	9.5231E+11	1.5528E+11
Kr-85m		9.2774E-03	1.1273E-12	7.9870E+12	5.0535E+11

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Kr-85	6.3905E-04	1.6304E-09	1.1551E+16	3.3240E+10
Kr-87	8.5742E-03	3.0270E-13	2.0953E+12	5.2838E+11
Kr-88	2.1270E-02	1.6963E-12	1.1608E+13	1.1907E+12
Rb-86	2.5817E-09	3.1728E-17	2.2218E+08	2.0949E+05
Rb-88	1.2545E-02	1.0392E-13	7.1119E+11	4.0909E+11
Sr-89	3.4728E-08	1.1954E-15	8.0884E+09	1.9538E+06
Sr-90	3.7194E-09	2.7267E-14	1.8245E+11	2.0922E+05
Sr-91	3.7035E-08	1.0217E-17	6.7611E+07	2.1301E+06
Sr-92	2.6603E-08	2.1165E-18	1.3854E+07	1.6198E+06
Y-90	8.3876E-11	1.5417E-19	1.0316E+06	4.0775E+03
Y-91	4.4445E-10	1.8123E-17	1.1993E+08	2.4879E+04
Y-92	6.5903E-09	6.8490E-19	4.4832E+06	2.9991E+05
Y-93	4.2380E-10	1.2703E-19	8.2254E+05	2.4342E+04
Zr-95	5.1398E-10	2.3925E-17	1.5166E+08	2.8916E+04
Zr-97	4.5717E-10	2.3915E-19	1.4847E+06	2.6038E+04
Nb-95	5.0737E-10	1.2975E-17	8.2251E+07	2.8539E+04
Mo-99	6.3588E-09	1.3258E-17	8.0648E+07	3.5883E+05
Tc-99m	5.7124E-09	1.0864E-18	6.6084E+06	3.1966E+05
Ru-103	5.6138E-09	1.7394E-16	1.0170E+09	3.1585E+05
Ru-105	2.9308E-09	4.3601E-19	2.5007E+06	1.7295E+05
Ru-106	2.3369E-09	6.9850E-16	3.9683E+09	1.3146E+05
Rh-105	3.7159E-09	4.4024E-18	2.5249E+07	2.0908E+05
Sb-127	6.3722E-09	2.3861E-17	1.1315E+08	3.5926E+05
Sb-129	1.4500E-08	2.5785E-18	1.2037E+07	8.5683E+05
Te-127	6.3867E-09	2.4200E-18	1.1475E+07	3.5802E+05
Te-127m	1.0941E-09	1.1599E-16	5.5002E+08	6.1544E+04
Te-129	1.6396E-08	7.8293E-19	3.6550E+06	9.2270E+05
Te-129m	3.5883E-09	1.1911E-16	5.5605E+08	2.0184E+05
Te-131m	1.2980E-08	1.6278E-17	7.4830E+07	7.3527E+05
Te-132	9.5819E-08	3.1562E-16	1.4399E+09	5.4044E+06
I-131	1.7060E-05	1.3761E-13	6.3258E+11	1.2778E+09
I-132	1.5599E-05	1.5112E-15	6.8946E+09	1.2793E+09
I-133	3.3324E-05	2.9417E-14	1.3320E+11	2.5267E+09
I-134	8.4056E-06	3.1509E-16	1.4161E+09	8.9831E+08
I-135	2.7294E-05	7.7720E-15	3.4670E+10	2.1318E+09
Xe-133	7.7668E-02	4.1493E-10	1.8788E+15	4.0453E+12
Xe-133m	2.3589E-03	5.3579E-12	2.4260E+13	1.2310E+11
Xe-135	3.2320E-02	1.2656E-11	5.6456E+13	1.7065E+12
Xe-135m	7.3510E-04	8.0751E-15	3.6022E+10	7.4656E+10
Xe-138	2.0047E-04	2.0893E-15	9.1174E+09	3.5201E+10
Cs-134	2.5895E-07	2.0014E-13	8.9945E+11	2.0999E+07
Cs-136	7.8666E-08	1.0733E-15	4.7528E+09	6.3853E+06
Cs-137	2.0105E-07	2.3114E-12	1.0160E+13	1.6304E+07
Ba-139	1.9223E-08	1.1752E-18	5.0916E+06	1.2684E+06
Ba-140	5.0910E-08	6.9541E-16	2.9913E+09	2.8657E+06
La-140	1.5016E-09	2.7015E-18	1.1621E+07	7.0594E+04
La-141	3.3738E-10	5.9657E-20	2.5480E+05	2.0036E+04
La-142	1.9164E-10	1.3387E-20	5.6774E+04	1.2424E+04
Ce-141	1.2069E-09	4.2356E-17	1.8090E+08	6.7898E+04
Ce-143	1.1290E-09	1.7001E-18	7.1597E+06	6.3914E+04
Ce-144	9.6755E-10	3.0336E-16	1.2686E+09	5.4427E+04
Pr-143	4.6255E-10	6.8690E-18	2.8927E+07	2.5993E+04
Nd-147	1.8700E-10	2.3116E-18	9.4698E+06	1.0528E+04
Np-239	1.3437E-08	5.7921E-17	1.4594E+08	7.5866E+05
Pu-238	3.0069E-12	1.7564E-16	4.4442E+08	1.6914E+02
Pu-239	3.0330E-13	4.8796E-15	1.2295E+10	1.7060E+01
Pu-240	5.3567E-13	2.3519E-16	5.9014E+08	3.0132E+01
Pu-241	1.1901E-10	1.2034E-15	3.0071E+09	6.6944E+03
Am-241	6.7345E-14	1.9658E-17	4.9122E+07	3.7878E+00
Cm-242	1.8489E-11	5.5855E-18	1.3899E+07	1.0401E+03
Cm-244	1.2229E-12	1.4941E-17	3.6875E+07	6.8792E+01

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	1.3533E+16	0.0000E+00	
Elemental I (atoms)	5.6792E+11	0.0000E+00	
Organic I (atoms)	1.8745E+11	0.0000E+00	
Aerosols (kg)	2.6659E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.1780E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.6828E-15	
Total I (Ci)		1.0168E-04	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter

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Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.3412E+10
Organic I (atoms)	0.0000E+00	7.7698E+09
Aerosols (kg)	0.0000E+00	1.5482E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2404E+16
Elemental I (atoms)	3.4866E+12	3.5218E+10
Organic I (atoms)	1.0919E+12	1.1029E+10
Aerosols (kg)	1.5609E-11	1.5766E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2971E+15
Elemental I (atoms)	0.0000E+00	6.5219E+11
Organic I (atoms)	0.0000E+00	2.0425E+11
Aerosols (kg)	0.0000E+00	2.9197E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	1.1602E+15	0.0000E+00
Elemental I (atoms)	7.9998E+10	0.0000E+00
Organic I (atoms)	1.8603E+10	0.0000E+00
Aerosols (kg)	3.7069E-13	0.0000E+00

EAB Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.9612E-04	2.8925E-03	1.0897E-03
Accumulated dose (rem)	2.5364E-03	9.8147E-03	2.8542E-03

LPZ Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3561E-04	3.9376E-04	1.4834E-04
Accumulated dose (rem)	3.4529E-04	1.3361E-03	3.8855E-04

CR Doses:

Time (h) = 2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5470E-05	8.2666E-04	1.4765E-04
Accumulated dose (rem)	1.9101E-04	2.3765E-03	3.3751E-04

CR Compartment Nuclide Inventory:

Time (h) = 2.2500	Ci	kg	Atoms	Decay
Kr-83m	3.5457E-03	1.7467E-13	1.2674E+12	2.6503E+11
Kr-85m	1.3038E-02	1.5843E-12	1.1224E+13	8.9847E+11
Kr-85	9.3351E-04	2.3816E-09	1.6873E+16	6.0873E+10
Kr-87	1.0929E-02	3.8585E-13	2.6708E+12	8.7383E+11
Kr-88	2.9231E-02	2.3312E-12	1.5953E+13	2.0816E+12
Rb-86	3.0472E-09	3.7450E-17	2.6224E+08	3.0582E+05
Rb-88	1.9354E-02	1.6033E-13	1.0972E+12	8.4054E+11
Sr-89	4.6509E-08	1.6009E-15	1.0832E+10	3.3685E+06
Sr-90	4.9817E-09	3.6521E-14	2.4437E+11	3.6073E+05
Sr-91	4.8708E-08	1.3437E-17	8.8921E+07	3.6246E+06
Sr-92	3.3425E-08	2.6592E-18	1.7407E+07	2.6684E+06
Y-90	1.2290E-10	2.2590E-19	1.5115E+06	7.5748E+03
Y-91	5.9723E-10	2.4353E-17	1.6116E+08	4.2999E+04
Y-92	9.7222E-09	1.0104E-18	6.6137E+06	5.7185E+05
Y-93	5.5798E-10	1.6724E-19	1.0830E+06	4.1453E+04
Zr-95	6.8835E-10	3.2042E-17	2.0312E+08	4.9853E+04
Zr-97	6.0609E-10	3.1705E-19	1.9684E+06	4.4564E+04
Nb-95	6.7958E-10	1.7379E-17	1.1017E+08	4.9207E+04
Mo-99	8.4946E-09	1.7711E-17	1.0774E+08	6.1751E+05
Tc-99m	7.6477E-09	1.4544E-18	8.8471E+06	5.5115E+05
Ru-103	7.5177E-09	2.3293E-16	1.3619E+09	5.4452E+05

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Ru-105	3.7753E-09	5.6164E-19	3.2212E+06	2.8996E+05
Ru-106	3.1300E-09	9.3555E-16	5.3151E+09	2.2665E+05
Rh-105	4.9715E-09	5.8901E-18	3.3782E+07	3.6026E+05
Sb-127	8.5189E-09	3.1900E-17	1.5126E+08	6.1859E+05
Sb-129	1.8658E-08	3.3179E-18	1.5489E+07	1.4354E+06
Te-127	8.5525E-09	3.2407E-18	1.5367E+07	6.1732E+05
Te-127m	1.4655E-09	1.5536E-16	7.3670E+08	1.0611E+05
Te-129	2.1447E-08	1.0241E-18	4.7809E+06	1.5681E+06
Te-129m	4.8060E-09	1.5953E-16	7.4476E+08	3.4801E+05
Te-131m	1.7285E-08	2.1677E-17	9.9650E+07	1.2625E+06
Te-132	1.2806E-07	4.2180E-16	1.9244E+09	9.3033E+06
I-131	2.0996E-05	1.6936E-13	7.7854E+11	1.9326E+09
I-132	1.8193E-05	1.7625E-15	8.0411E+09	1.8637E+09
I-133	4.0708E-05	3.5935E-14	1.6271E+11	3.8009E+09
I-134	8.4969E-06	3.1852E-16	1.4314E+09	1.1904E+09
I-135	3.2751E-05	9.3258E-15	4.1601E+10	3.1659E+09
Xe-133	1.1333E-01	6.0543E-10	2.7413E+15	7.4017E+12
Xe-133m	3.4361E-03	7.8049E-12	3.5340E+13	2.2495E+11
Xe-135	4.6582E-02	1.8241E-11	8.1370E+13	3.0952E+12
Xe-135m	6.8974E-04	7.5768E-15	3.3799E+10	1.0095E+11
Xe-138	1.4081E-04	1.4675E-15	6.4042E+09	4.1239E+10
Cs-134	3.0576E-07	2.3632E-13	1.0621E+12	3.0662E+07
Cs-136	9.2837E-08	1.2667E-15	5.6090E+09	9.3201E+06
Cs-137	2.3740E-07	2.7293E-12	1.1997E+13	2.3806E+07
Ba-139	2.2706E-08	1.3881E-18	6.0141E+06	2.0026E+06
Ba-140	6.8151E-08	9.3091E-16	4.0043E+09	4.9390E+06
La-140	2.2389E-09	4.0280E-18	1.7327E+07	1.3349E+05
La-141	4.3240E-10	7.6458E-20	3.2655E+05	3.3470E+04
La-142	2.2939E-10	1.6025E-20	6.7959E+04	1.9793E+04
Ce-141	1.6163E-09	5.6724E-17	2.4227E+08	1.1706E+05
Ce-143	1.5043E-09	2.2652E-18	9.5396E+06	1.0978E+05
Ce-144	1.2959E-09	4.0631E-16	1.6992E+09	9.3842E+04
Pr-143	6.1992E-10	9.2060E-18	3.8769E+07	4.4837E+04
Nd-147	2.5031E-10	3.0941E-18	1.2676E+07	1.8143E+04
Np-239	1.7943E-08	7.7342E-17	1.9488E+08	1.3052E+06
Pu-238	4.0274E-12	2.3525E-16	5.9526E+08	2.9163E+02
Pu-239	4.0626E-13	6.5360E-15	1.6469E+10	2.9416E+01
Pu-240	7.1748E-13	3.1501E-16	7.9044E+08	5.1954E+01
Pu-241	1.5940E-10	1.6119E-15	4.0277E+09	1.1542E+04
Am-241	9.0209E-14	2.6332E-17	6.5798E+07	6.5313E+00
Cm-242	2.4764E-11	7.4809E-18	1.8616E+07	1.7933E+03
Cm-244	1.6380E-12	2.0012E-17	4.9391E+07	1.1861E+02

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	1.9763E+16	0.0000E+00	
Elemental I (atoms)	6.7312E+11	0.0000E+00	
Organic I (atoms)	2.5592E+11	0.0000E+00	
Aerosols (kg)	3.1915E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.6729E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.2814E-15	
Total I (Ci)		1.2114E-04	

Deposition Recirculating

Time (h) =	2.2500	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	4.9710E+10	
Organic I (atoms)	0.0000E+00	1.3553E+10	
Aerosols (kg)	0.0000E+00	2.3140E-13	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8539E+16
Elemental I (atoms)	4.3142E+12	4.3577E+10
Organic I (atoms)	1.5436E+12	1.5592E+10
Aerosols (kg)	1.9253E-11	1.9447E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.4332E+15

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Elemental I (atoms)	0.0000E+00	8.0699E+11
Organic I (atoms)	0.0000E+00	2.8874E+11
Aerosols (kg)	0.0000E+00	3.6013E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 2.2500	Filtered	Transported
Noble gases (atoms)	2.1959E+15	0.0000E+00
Elemental I (atoms)	1.1902E+11	0.0000E+00
Organic I (atoms)	3.2450E+10	0.0000E+00
Aerosols (kg)	5.5405E-13	0.0000E+00

EAB Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.5759E-04	2.0514E-03	8.2386E-04
Accumulated dose (rem)	3.2939E-03	1.1866E-02	3.6780E-03

LPZ Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0313E-04	2.7927E-04	1.1216E-04
Accumulated dose (rem)	4.4842E-04	1.6154E-03	5.0071E-04

CR Doses:

Time (h) = 2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6361E-05	5.8440E-04	1.1471E-04
Accumulated dose (rem)	2.5737E-04	2.9609E-03	4.5222E-04

CR Compartment Nuclide Inventory:

Time (h) = 2.4000	Ci	kg	Atoms	Decay
Kr-83m	4.1976E-03	2.0678E-13	1.5003E+12	3.4714E+11
Kr-85m	1.5948E-02	1.9379E-12	1.3729E+13	1.2054E+12
Kr-85	1.1687E-03	2.9815E-09	2.1124E+16	8.3111E+10
Kr-87	1.2608E-02	4.4512E-13	3.0811E+12	1.1237E+12
Kr-88	3.5279E-02	2.8135E-12	1.9254E+13	2.7651E+12
Rb-86	3.3594E-09	4.1286E-17	2.8911E+08	3.7152E+05
Rb-88	2.3958E-02	1.9846E-13	1.3582E+12	1.2021E+12
Sr-89	5.5032E-08	1.8942E-15	1.2817E+10	4.4287E+06
Sr-90	5.8952E-09	4.3218E-14	2.8918E+11	4.7431E+05
Sr-91	5.7012E-08	1.5728E-17	1.0408E+08	4.7289E+06
Sr-92	3.8065E-08	3.0284E-18	1.9823E+07	3.4158E+06
Y-90	1.5283E-10	2.8091E-19	1.8797E+06	1.0388E+04
Y-91	7.0807E-10	2.8873E-17	1.9107E+08	5.6616E+04
Y-92	1.2055E-08	1.2528E-18	8.2006E+06	7.9148E+05
Y-93	6.5353E-10	1.9588E-19	1.2684E+06	5.4108E+04
Zr-95	8.1452E-10	3.7915E-17	2.4035E+08	6.5546E+04
Zr-97	7.1283E-10	3.7288E-19	2.3150E+06	5.8338E+04
Nb-95	8.0419E-10	2.0566E-17	1.3037E+08	6.4700E+04
Mo-99	1.0036E-08	2.0926E-17	1.2729E+08	8.1102E+05
Tc-99m	9.0471E-09	1.7206E-18	1.0466E+07	7.2466E+05
Ru-103	8.8952E-09	2.7562E-16	1.6115E+09	7.1590E+05
Ru-105	4.3642E-09	6.4924E-19	3.7236E+06	3.7502E+05
Ru-106	3.7039E-09	1.1071E-15	6.2897E+09	2.9801E+05
Rh-105	5.8789E-09	6.9650E-18	3.9947E+07	4.7349E+05
Sb-127	1.0070E-08	3.7707E-17	1.7880E+08	8.1269E+05
Sb-129	2.1554E-08	3.8329E-18	1.7893E+07	1.8556E+06
Te-127	1.0119E-08	3.8344E-18	1.8182E+07	8.1170E+05
Te-127m	1.7342E-09	1.8385E-16	8.7179E+08	1.3952E+05
Te-129	2.5005E-08	1.1940E-18	5.5739E+06	2.0436E+06
Te-129m	5.6872E-09	1.8878E-16	8.8131E+08	4.5757E+05
Te-131m	2.0384E-08	2.5563E-17	1.1752E+08	1.6558E+06
Te-132	1.5134E-07	4.9848E-16	2.2742E+09	1.2221E+07
I-131	2.3798E-05	1.9196E-13	8.8245E+11	2.3952E+09
I-132	2.0001E-05	1.9377E-15	8.8401E+09	2.2599E+09
I-133	4.5935E-05	4.0549E-14	1.8360E+11	4.6959E+09
I-134	8.5583E-06	3.2082E-16	1.4418E+09	1.3669E+09
I-135	3.6561E-05	1.0411E-14	4.6441E+10	3.8820E+09
Xe-133	1.4178E-01	7.5742E-10	3.4295E+15	1.0101E+13
Xe-133m	4.2945E-03	9.7547E-12	4.4168E+13	3.0675E+11
Xe-135	5.7861E-02	2.2658E-11	1.0107E+14	4.2016E+12

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Xe-135m	6.7942E-04	7.4634E-15	3.3293E+10	1.1618E+11
Xe-138	1.1361E-04	1.1840E-15	5.1670E+09	4.3944E+10
Cs-134	3.3715E-07	2.6059E-13	1.1711E+12	3.7256E+07
Cs-136	1.0234E-07	1.3963E-15	6.1829E+09	1.1322E+07
Cs-137	2.6177E-07	3.0095E-12	1.3229E+13	2.8926E+07
Ba-139	2.4917E-08	1.5233E-18	6.5997E+06	2.5010E+06
Ba-140	8.0620E-08	1.1012E-15	4.7370E+09	6.4925E+06
La-140	2.8087E-09	5.0532E-18	2.1736E+07	1.8475E+05
La-141	4.9832E-10	8.8115E-20	3.7634E+05	4.3197E+04
La-142	2.5375E-10	1.7726E-20	7.5176E+04	2.4848E+04
Ce-141	1.9125E-09	6.7119E-17	2.8667E+08	1.5390E+05
Ce-143	1.7745E-09	2.6722E-18	1.1253E+07	1.4402E+05
Ce-144	1.5335E-09	4.8080E-16	2.0107E+09	1.2339E+05
Pr-143	7.3386E-10	1.0898E-17	4.5894E+07	5.8970E+04
Nd-147	2.9609E-10	3.6600E-18	1.4994E+07	2.3848E+04
Np-239	2.1194E-08	9.1356E-17	2.3019E+08	1.7139E+06
Pu-238	4.7659E-12	2.7839E-16	7.0441E+08	3.8345E+02
Pu-239	4.8076E-13	7.7347E-15	1.9489E+10	3.8678E+01
Pu-240	8.4904E-13	3.7278E-16	9.3538E+08	6.8311E+01
Pu-241	1.8863E-10	1.9074E-15	4.7663E+09	1.5176E+04
Am-241	1.0675E-13	3.1162E-17	7.7867E+07	8.5879E+00
Cm-242	2.9304E-11	8.8524E-18	2.2029E+07	2.3578E+03
Cm-244	1.9384E-12	2.3681E-17	5.8448E+07	1.5595E+02

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump	
Noble gases (atoms)		2.4736E+16	0.0000E+00	
Elemental I (atoms)		7.4405E+11	0.0000E+00	
Organic I (atoms)		3.0877E+11	0.0000E+00	
Aerosols (kg)		3.5450E-12	0.0000E+00	
Dose Effective (Ci/cc)		I-131 (Thyroid)	3.0245E-15	
Dose Effective (Ci/cc)		I-131 (ICRP2 Thyroid)	3.7062E-15	
Total I (Ci)			1.3485E-04	

		Deposition	Recirculating	
Time (h) =	2.4000	Surfaces	Filter	
Noble gases (atoms)		0.0000E+00	0.0000E+00	
Elemental I (atoms)		0.0000E+00	6.0896E+10	
Organic I (atoms)		0.0000E+00	1.8001E+10	
Aerosols (kg)		0.0000E+00	2.8434E-13	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	2.4000	Filtered	Transported	
Noble gases (atoms)		0.0000E+00	2.3447E+16	
Elemental I (atoms)		4.8754E+12	4.9247E+10	
Organic I (atoms)		1.8919E+12	1.9110E+10	
Aerosols (kg)		2.1719E-11	2.1938E-13	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	2.4000	Filtered	Transported	
Noble gases (atoms)		0.0000E+00	4.3421E+15	
Elemental I (atoms)		0.0000E+00	9.1197E+11	
Organic I (atoms)		0.0000E+00	3.5389E+11	
Aerosols (kg)		0.0000E+00	4.0626E-12	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	2.4000	Filtered	Transported	
Noble gases (atoms)		3.0338E+15	0.0000E+00	
Elemental I (atoms)		1.4580E+11	0.0000E+00	
Organic I (atoms)		4.3101E+10	0.0000E+00	
Aerosols (kg)		6.8081E-13	0.0000E+00	

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5029E-02	3.5901E-02	1.6183E-02
Accumulated dose (rem)		1.8323E-02	4.7767E-02	1.9861E-02

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LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0460E-03	4.8873E-03	2.2031E-03
Accumulated dose (rem)		2.4944E-03	6.5027E-03	2.7038E-03

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.8606E-03	1.2269E-02	3.1981E-03
Accumulated dose (rem)		2.1180E-03	1.5230E-02	3.6503E-03

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		1.3182E-02	6.4936E-13	4.7115E+12	2.2788E+12
Kr-85m		7.0975E-02	8.6244E-12	6.1103E+13	1.0249E+13
Kr-85		6.6622E-03	1.6997E-08	1.2042E+17	8.5592E+11
Kr-87		3.0048E-02	1.0608E-12	7.3430E+12	6.0744E+12
Kr-88		1.3609E-01	1.0854E-11	7.4274E+13	2.1109E+13
Rb-86		7.3343E-09	9.0138E-17	6.3119E+08	1.5278E+06
Rb-88		1.1410E-01	9.4517E-13	6.4681E+12	1.2482E+13
Sr-89		1.8052E-07	6.2136E-15	4.2044E+10	2.9675E+07
Sr-90		1.9355E-08	1.4189E-13	9.4945E+11	3.1802E+06
Sr-91		1.6656E-07	4.5948E-17	3.0407E+08	2.9168E+07
Sr-92		8.3004E-08	6.6036E-18	4.3226E+07	1.7228E+07
Y-90		7.8836E-10	1.4490E-18	9.6958E+06	1.0209E+05
Y-91		2.3737E-09	9.6792E-17	6.4054E+08	3.8534E+05
Y-92		5.2923E-08	5.5000E-18	3.6002E+07	7.3990E+06
Y-93		1.9226E-09	5.7625E-19	3.7315E+06	3.3539E+05
Zr-95		2.6723E-09	1.2439E-16	7.8854E+08	4.3925E+05
Zr-97		2.1917E-09	1.1465E-18	7.1179E+06	3.7315E+05
Nb-95		2.6404E-09	6.7523E-17	4.2804E+08	4.3381E+05
Mo-99		3.2403E-08	6.7561E-17	4.1097E+08	5.3724E+06
Tc-99m		2.9571E-08	5.6237E-18	3.4209E+07	4.8439E+06
Ru-103		2.9171E-08	9.0385E-16	5.2846E+09	4.7960E+06
Ru-105		1.1162E-08	1.6605E-18	9.5233E+06	2.1078E+06
Ru-106		1.2159E-08	3.6344E-15	2.0648E+10	1.9980E+06
Rh-105		1.9097E-08	2.2626E-17	1.2977E+08	3.1544E+06
Sb-127		3.2667E-08	1.2232E-16	5.8004E+08	5.4021E+06
Sb-129		5.4745E-08	9.7352E-18	4.5447E+07	1.0380E+07
Te-127		3.3160E-08	1.2565E-17	5.9580E+07	5.4347E+06
Te-127m		5.6939E-09	6.0364E-16	2.8624E+09	9.3552E+05
Te-129		6.9123E-08	3.3006E-18	1.5408E+07	1.2197E+07
Te-129m		1.8666E-08	6.1960E-16	2.8925E+09	3.0674E+06
Te-131m		6.4497E-08	8.0884E-17	3.7183E+08	1.0811E+07
Te-132		4.8988E-07	1.6136E-15	7.3616E+09	8.1106E+07
I-131		6.9116E-05	5.5750E-13	2.5629E+12	1.2174E+10
I-132		4.1578E-05	4.0280E-15	1.8377E+10	9.0948E+09
I-133		1.2718E-04	1.1227E-13	5.0836E+11	2.3052E+10
I-134		7.0538E-06	2.6442E-16	1.1883E+09	3.1626E+09
I-135		9.0282E-05	2.5708E-14	1.1468E+11	1.7561E+10
Xe-133		8.0205E-01	4.2849E-09	1.9401E+16	1.0341E+14
Xe-133m		2.4029E-02	5.4580E-11	2.4713E+14	3.1141E+12
Xe-135		2.9939E-01	1.1724E-10	5.2297E+14	4.0304E+13
Xe-135m		5.0437E-04	5.5405E-15	2.4715E+10	2.5715E+11
Xe-138		5.9732E-06	6.2252E-17	2.7166E+08	5.3005E+10
Cs-134		7.3787E-07	5.7030E-13	2.5630E+12	1.5347E+08
Cs-136		2.2319E-07	3.0453E-15	1.3485E+10	4.6526E+07
Cs-137		5.7293E-07	6.5868E-12	2.8954E+13	1.1916E+08
Ba-139		3.6589E-08	2.2369E-18	9.6914E+06	9.7963E+06
Ba-140		2.6374E-07	3.6025E-15	1.5496E+10	4.3418E+07
La-140		1.5351E-08	2.7619E-17	1.1880E+08	1.9353E+06
La-141		1.2338E-09	2.1817E-19	9.3182E+05	2.3743E+05
La-142		4.0578E-10	2.8346E-20	1.2022E+05	1.0258E+05
Ce-141		6.2727E-09	2.2014E-16	9.4024E+08	1.0312E+06
Ce-143		5.6337E-09	8.4834E-18	3.5726E+07	9.4258E+05
Ce-144		5.0341E-09	1.5783E-15	6.6006E+09	8.2720E+05
Pr-143		2.4193E-09	3.5927E-17	1.5130E+08	3.9652E+05
Nd-147		9.6806E-10	1.1966E-17	4.9022E+07	1.5942E+05
Np-239		6.8232E-08	2.9412E-16	7.4109E+08	1.1330E+07
Pu-238		1.5648E-11	9.1403E-16	2.3128E+09	2.5710E+03
Pu-239		1.5788E-12	2.5401E-14	6.4003E+10	2.5938E+02
Pu-240		2.7876E-12	1.2239E-15	3.0711E+09	4.5802E+02

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Pu-241	6.1931E-10	6.2625E-15	1.5649E+10	1.0176E+05
Am-241	3.5067E-13	1.0236E-16	2.5578E+08	5.7601E+01
Cm-242	9.6183E-11	2.9056E-17	7.2307E+07	1.5806E+04
Cm-244	6.3641E-12	7.7751E-17	1.9190E+08	1.0457E+03

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump	
Noble gases (atoms)	1.4074E+17	0.0000E+00		
Elemental I (atoms)	1.6424E+12	0.0000E+00		
Organic I (atoms)	1.4082E+12	0.0000E+00		
Aerosols (kg)	8.3351E-12	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		8.6344E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.0404E-14	
Total I (Ci)			3.3521E-04	

		Deposition	Recirculating	
Time (h) =	4.0000	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	2.6052E+11		
Organic I (atoms)	0.0000E+00	1.4936E+11		
Aerosols (kg)	0.0000E+00	1.2641E-12		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	4.0000	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	1.4629E+17		
Elemental I (atoms)	1.3014E+13	1.3145E+11		
Organic I (atoms)	9.8267E+12	9.9259E+10		
Aerosols (kg)	5.7651E-11	5.8233E-13		

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	4.0000	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	2.7091E+16		
Elemental I (atoms)	0.0000E+00	2.4343E+12		
Organic I (atoms)	0.0000E+00	1.8381E+12		
Aerosols (kg)	0.0000E+00	1.0784E-11		

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	4.0000	Filtered	Transported	
Noble gases (atoms)	3.2462E+16	0.0000E+00		
Elemental I (atoms)	6.2376E+11	0.0000E+00		
Organic I (atoms)	3.5761E+11	0.0000E+00		
Aerosols (kg)	3.0267E-12	0.0000E+00		

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.7697E-02	1.8249E-01	7.3490E-02	
Accumulated dose (rem)	8.6020E-02	2.3026E-01	9.3351E-02	

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.2160E-03	2.4843E-02	1.0005E-02	
Accumulated dose (rem)	1.1710E-02	3.1346E-02	1.2708E-02	

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6119E-02	9.8690E-02	2.8101E-02	
Accumulated dose (rem)	1.8237E-02	1.1392E-01	3.1752E-02	

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m	1.8158E-02	8.9449E-13	6.4901E+12	1.2208E+13	
Kr-85m	2.3377E-01	2.8407E-11	2.0126E+14	9.6803E+13	
Kr-85	4.0747E-02	1.0395E-07	7.3650E+17	1.2695E+13	
Kr-87	2.0769E-02	7.3321E-13	5.0753E+12	2.2197E+13	

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Kr-88	3.1356E-01	2.5006E-11	1.7113E+14	1.5637E+14
Rb-86	1.3918E-08	1.7106E-16	1.1978E+09	7.5836E+06
Rb-88	3.1005E-01	2.5684E-12	1.7576E+13	1.1828E+14
Sr-89	4.2892E-07	1.4764E-14	9.9899E+10	2.0396E+08
Sr-90	4.6094E-08	3.3792E-13	2.2611E+12	2.1892E+07
Sr-91	2.9626E-07	8.1728E-17	5.4085E+08	1.6623E+08
Sr-92	7.1060E-08	5.6534E-18	3.7006E+07	6.4215E+07
Y-90	3.6988E-09	6.7984E-18	4.5490E+07	1.2707E+06
Y-91	5.9151E-09	2.4120E-16	1.5962E+09	2.7410E+06
Y-92	1.1865E-07	1.2330E-17	8.0712E+07	5.9171E+07
Y-93	3.4795E-09	1.0429E-18	6.7533E+06	1.9324E+06
Zr-95	6.3527E-09	2.9571E-16	1.8745E+09	3.0201E+06
Zr-97	4.4299E-09	2.3173E-18	1.4387E+07	2.3070E+06
Nb-95	6.2881E-09	1.6081E-16	1.0194E+09	2.9863E+06
Mo-99	7.3994E-08	1.5428E-16	9.3846E+08	3.5967E+07
Tc-99m	6.9078E-08	1.3137E-17	7.9912E+07	3.2991E+07
Ru-103	6.9267E-08	2.1462E-15	1.2548E+10	3.2950E+07
Ru-105	1.4236E-08	2.1178E-18	1.2146E+07	9.8150E+06
Ru-106	2.8948E-08	8.6526E-15	4.9158E+10	1.3751E+07
Rh-105	4.3537E-08	5.1581E-17	2.9584E+08	2.1192E+07
Sb-127	7.5496E-08	2.8270E-16	1.3405E+09	3.6454E+07
Sb-129	6.8622E-08	1.2203E-17	5.6967E+07	4.7846E+07
Te-127	7.8303E-08	2.9670E-17	1.4069E+08	3.7237E+07
Te-127m	1.3560E-08	1.4376E-15	6.8168E+09	6.4400E+06
Te-129	1.0356E-07	4.9448E-18	2.3084E+07	6.2816E+07
Te-129m	4.4372E-08	1.4729E-15	6.8761E+09	2.1095E+07
Te-131m	1.4004E-07	1.7562E-16	8.0734E+08	7.0020E+07
Te-132	1.1260E-06	3.7089E-15	1.6921E+10	5.4535E+08
I-131	2.2807E-04	1.8397E-12	8.4571E+12	9.1713E+10
I-132	6.0946E-05	5.9044E-15	2.6937E+10	3.9204E+10
I-133	3.7251E-04	3.2884E-13	1.4890E+12	1.5955E+11
I-134	9.9886E-07	3.7443E-17	1.6827E+08	5.0282E+09
I-135	1.9863E-04	5.6559E-14	2.5230E+11	9.9874E+10
Xe-133	4.8047E+00	2.5669E-08	1.1623E+17	1.5103E+15
Xe-133m	1.3975E-01	3.1744E-10	1.4373E+15	4.4493E+13
Xe-135	1.3741E+00	5.3806E-10	2.4002E+15	4.8655E+14
Xe-135m	3.9072E-04	4.2920E-15	1.9146E+10	5.2996E+11
Xe-138	2.9843E-10	3.1102E-21	1.3573E+04	5.3371E+10
Cs-134	1.4087E-06	1.0888E-12	4.8933E+12	7.6472E+08
Cs-136	4.2244E-07	5.7639E-15	2.5523E+10	2.3054E+08
Cs-137	1.0940E-06	1.2577E-11	5.5287E+13	5.9382E+08
Ba-139	1.1657E-08	7.1269E-19	3.0877E+06	2.3152E+07
Ba-140	6.2242E-07	8.5020E-15	3.6571E+10	2.9708E+08
La-140	7.4622E-08	1.3425E-16	5.7749E+08	2.5310E+07
La-141	1.4512E-09	2.5660E-19	1.0959E+06	1.0548E+06
La-142	1.5999E-10	1.1176E-20	4.7398E+04	2.6436E+05
Ce-141	1.4894E-08	5.2270E-16	2.2325E+09	7.0852E+06
Ce-143	1.2336E-08	1.8575E-17	7.8226E+07	6.1386E+06
Ce-144	1.1984E-08	3.7573E-15	1.5713E+10	5.6927E+06
Pr-143	5.8198E-09	8.6425E-17	3.6396E+08	2.7484E+06
Nd-147	2.2813E-09	2.8200E-17	1.1552E+08	1.0898E+06
Np-239	1.5472E-07	6.6691E-16	1.6804E+09	7.5501E+07
Pu-238	3.7266E-11	2.1768E-15	5.5080E+09	1.7699E+04
Pu-239	3.7620E-12	6.0525E-14	1.5251E+11	1.7861E+03
Pu-240	6.6387E-12	2.9148E-15	7.3138E+09	3.1529E+03
Pu-241	1.4749E-09	1.4914E-14	3.7267E+10	7.0046E+05
Am-241	8.3618E-13	2.4408E-16	6.0991E+08	3.9684E+02
Cm-242	2.2890E-10	6.9149E-17	1.7208E+08	1.0875E+05
Cm-244	1.5156E-11	1.8516E-16	4.5700E+08	7.1980E+03

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	8.5695E+17	0.0000E+00	
Elemental I (atoms)	2.9876E+12	0.0000E+00	
Organic I (atoms)	6.9491E+12	0.0000E+00	
Aerosols (kg)	1.6770E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.7454E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.2106E-14	
Total I (Ci)		8.6116E-04	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3042E+12

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Organic I (atoms)	0.0000E+00	1.8237E+12
Aerosols (kg)	0.0000E+00	6.8776E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1428E+18
Elemental I (atoms)	3.8427E+13	3.8816E+11
Organic I (atoms)	6.7748E+13	6.8432E+11
Aerosols (kg)	1.7525E-10	1.7703E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1162E+17
Elemental I (atoms)	0.0000E+00	7.1881E+12
Organic I (atoms)	0.0000E+00	1.2673E+13
Aerosols (kg)	0.0000E+00	3.2782E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	4.9517E+17	0.0000E+00
Elemental I (atoms)	3.1227E+12	0.0000E+00
Organic I (atoms)	4.3665E+12	0.0000E+00
Aerosols (kg)	1.6467E-11	0.0000E+00

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3012E-01	5.9798E-01	1.4883E-01
Accumulated dose (rem)	2.1614E-01	8.2824E-01	2.4218E-01

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1918E-02	2.8169E-02	1.2800E-02
Accumulated dose (rem)	2.3629E-02	5.9515E-02	2.5508E-02

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7774E-02	2.3211E-01	4.8924E-02
Accumulated dose (rem)	4.6011E-02	3.4603E-01	8.0675E-02

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	1.1496E-03	5.6630E-14	4.1089E+11	1.8369E+13
Kr-85m	8.4619E-02	1.0282E-11	7.2849E+13	2.4422E+14
Kr-85	5.0852E-02	1.2973E-07	9.1915E+17	5.8877E+13
Kr-87	3.3103E-04	1.1687E-14	8.0894E+10	2.7138E+13
Kr-88	5.5536E-02	4.4290E-12	3.0309E+13	3.0566E+14
Rb-86	4.7361E-09	5.8207E-17	4.0759E+08	1.5838E+07
Rb-88	1.6077E-01	1.3318E-12	9.1138E+12	2.4735E+14
Sr-89	1.6683E-07	5.7423E-15	3.8855E+10	4.7219E+08
Sr-90	1.8010E-08	1.3203E-13	8.8345E+11	5.0771E+07
Sr-91	6.4573E-08	1.7813E-17	1.1788E+08	3.1354E+08
Sr-92	3.5880E-09	2.8545E-19	1.8685E+06	8.6274E+07
Y-90	2.8025E-09	5.1510E-18	3.4467E+07	4.4608E+06
Y-91	2.4423E-09	9.9588E-17	6.5905E+08	6.5420E+06
Y-92	1.6977E-08	1.7644E-18	1.1549E+07	1.1172E+08
Y-93	7.8514E-10	2.3533E-19	1.5239E+06	3.6851E+06
Zr-95	2.4732E-09	1.1512E-16	7.2979E+08	6.9943E+06
Zr-97	1.2467E-09	6.5215E-19	4.0488E+06	4.7361E+06
Nb-95	2.4569E-09	6.2831E-17	3.9829E+08	6.9254E+06
Mo-99	2.6581E-08	5.5422E-17	3.3713E+08	8.0734E+07
Tc-99m	2.5805E-08	4.9075E-18	2.9852E+07	7.4564E+07
Ru-103	2.6906E-08	8.3366E-16	4.8742E+09	7.6241E+07
Ru-105	1.5954E-09	2.3733E-19	1.3612E+06	1.5427E+07
Ru-106	1.1304E-08	3.3787E-15	1.9195E+10	3.1883E+07

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Rh-105	1.4997E-08	1.7768E-17	1.0191E+08	4.7140E+07
Sb-127	2.7780E-08	1.0403E-16	4.9327E+08	8.2586E+07
Sb-129	7.4280E-09	1.3209E-18	6.1664E+06	7.4598E+07
Te-127	2.9948E-08	1.1348E-17	5.3809E+07	8.5210E+07
Te-127m	5.2980E-09	5.6167E-16	2.6634E+09	1.4935E+07
Te-129	2.4234E-08	1.1572E-18	5.4020E+06	1.0798E+08
Te-129m	1.7241E-08	5.7232E-16	2.6718E+09	4.8835E+07
Te-131m	4.5484E-08	5.7039E-17	2.6221E+08	1.5133E+08
Te-132	4.0984E-07	1.3500E-15	6.1589E+09	1.2303E+09
I-131	1.8083E-04	1.4586E-12	6.7053E+12	2.8512E+11
I-132	1.7803E-05	1.7247E-15	7.8684E+09	6.9725E+10
I-133	2.3272E-04	2.0543E-13	9.3018E+11	4.4148E+11
I-134	1.4586E-09	5.4676E-20	2.4572E+05	5.1758E+09
I-135	7.0011E-05	1.9936E-14	8.8930E+10	2.1659E+11
Xe-133	5.7466E+00	3.0701E-08	1.3901E+17	6.8357E+15
Xe-133m	1.5734E-01	3.5738E-10	1.6182E+15	1.9460E+14
Xe-135	9.3778E-01	3.6722E-10	1.6381E+15	1.6384E+15
Xe-135m	5.6304E-05	6.1850E-16	2.7590E+09	6.7804E+11
Cs-134	4.8519E-07	3.7500E-13	1.6853E+12	1.6043E+09
Cs-136	1.4299E-07	1.9511E-15	8.6393E+09	4.8055E+08
Cs-137	3.7690E-07	4.3331E-12	1.9047E+13	1.2459E+09
Ba-139	8.1519E-11	4.9838E-21	2.1592E+04	2.5455E+07
Ba-140	2.3882E-07	3.2622E-15	1.4033E+10	6.8410E+08
La-140	5.6103E-08	1.0094E-16	4.3418E+08	8.9549E+07
La-141	1.3830E-10	2.4454E-20	1.0444E+05	1.5981E+06
Ce-141	5.7806E-09	2.0287E-16	8.6648E+08	1.6391E+07
Ce-143	4.0743E-09	6.1352E-18	2.5837E+07	1.3350E+07
Ce-144	4.6786E-09	1.4669E-15	6.1345E+09	1.3198E+07
Pr-143	2.3096E-09	3.4298E-17	1.4444E+08	6.4178E+06
Nd-147	8.7280E-10	1.0789E-17	4.4199E+07	2.5065E+06
Np-239	5.4803E-08	2.3623E-16	5.9523E+08	1.6856E+08
Pu-238	1.4561E-11	8.5057E-16	2.1522E+09	4.1048E+04
Pu-239	1.4714E-12	2.3673E-14	5.9650E+10	4.1442E+03
Pu-240	2.5939E-12	1.1389E-15	2.8577E+09	7.3123E+03
Pu-241	5.7624E-10	5.8270E-15	1.4561E+10	1.6245E+06
Am-241	3.2755E-13	9.5612E-17	2.3892E+08	9.2127E+02
Cm-242	8.9310E-11	2.6980E-17	6.7140E+07	2.5208E+05
Cm-244	5.9216E-12	7.2345E-17	1.7855E+08	1.6694E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	1.0615E+18	0.0000E+00
Elemental I (atoms)	8.7671E+11	0.0000E+00
Organic I (atoms)	6.7618E+12	0.0000E+00
Aerosols (kg)	6.2443E-12	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.0549E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.3126E-14
Total I (Ci)		5.0136E-04

Deposition Recirculating

Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.6636E+12
Organic I (atoms)	0.0000E+00	7.0105E+12
Aerosols (kg)	0.0000E+00	1.4943E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8478E+18
Elemental I (atoms)	5.1765E+13	5.2288E+11
Organic I (atoms)	1.5855E+14	1.6015E+12
Aerosols (kg)	2.4576E-10	2.4824E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2736E+17
Elemental I (atoms)	0.0000E+00	9.6830E+12
Organic I (atoms)	0.0000E+00	2.9657E+13
Aerosols (kg)	0.0000E+00	4.5971E-11

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	2.3045E+18	0.0000E+00
Elemental I (atoms)	6.3775E+12	0.0000E+00
Organic I (atoms)	1.6785E+13	0.0000E+00
Aerosols (kg)	3.5779E-11	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0789E-02	7.1274E-01	1.1289E-01
Accumulated dose (rem)	3.0693E-01	1.5410E+00	3.5507E-01

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.3160E-03	3.3575E-02	9.3572E-03
Accumulated dose (rem)	3.1945E-02	9.3090E-02	3.4865E-02

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7411E-02	2.3873E-01	3.0662E-02
Accumulated dose (rem)	6.3422E-02	5.8476E-01	1.1134E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	7.7585E-05	3.8220E-15	2.7731E+10	1.8810E+13
Kr-85m	3.2652E-02	3.9677E-12	2.8111E+13	3.0460E+14
Kr-85	6.7653E-02	1.7260E-07	1.2228E+18	1.2388E+14
Kr-87	5.6247E-06	1.9857E-16	1.3745E+09	2.7227E+13
Kr-88	1.0486E-02	8.3625E-13	5.7227E+12	3.3558E+14
Rb-86	2.5492E-09	3.1330E-17	2.1939E+08	1.9396E+07
Rb-88	3.0436E-02	2.5213E-13	1.7254E+12	2.7265E+14
Sr-89	1.0491E-07	3.6112E-15	2.4435E+10	6.0794E+08
Sr-90	1.1378E-08	8.3410E-14	5.5812E+11	6.5457E+07
Sr-91	2.2757E-08	6.2777E-18	4.1544E+07	3.5428E+08
Sr-92	2.9292E-10	2.3304E-20	1.5255E+05	8.7608E+07
Y-90	2.5556E-09	4.6972E-18	3.1430E+07	7.1418E+06
Y-91	1.5837E-09	6.4576E-17	4.2735E+08	8.5565E+06
Y-92	2.8500E-09	2.9619E-19	1.9388E+06	1.1973E+08
Y-93	2.8646E-10	8.5861E-20	5.5599E+05	4.1877E+06
Zr-95	1.5569E-09	7.2470E-17	4.5939E+08	9.0077E+06
Zr-97	5.6731E-10	2.9676E-19	1.8424E+06	5.6132E+06
Nb-95	1.5521E-09	3.9693E-17	2.5162E+08	8.9280E+06
Mo-99	1.5440E-08	3.2192E-17	1.9582E+08	1.0159E+08
Tc-99m	1.5466E-08	2.9412E-18	1.7891E+07	9.4068E+07
Ru-103	1.6898E-08	5.2359E-16	3.0613E+09	9.8122E+07
Ru-105	2.8908E-10	4.3005E-20	2.4665E+05	1.6204E+07
Ru-106	7.1368E-09	2.1332E-15	1.2119E+10	4.1098E+07
Rh-105	8.1826E-09	9.6944E-18	5.5601E+07	5.8579E+07
Sb-127	1.6528E-08	6.1892E-17	2.9348E+08	1.0462E+08
Sb-129	1.3001E-09	2.3119E-19	1.0793E+06	7.8168E+07
Te-127	1.8443E-08	6.9882E-18	3.3137E+07	1.0853E+08
Te-127m	3.3465E-09	3.5478E-16	1.6823E+09	1.9255E+07
Te-129	1.1183E-08	5.3401E-19	2.4929E+06	1.2099E+08
Te-129m	1.0822E-08	3.5923E-16	1.6770E+09	6.2852E+07
Te-131m	2.3886E-08	2.9954E-17	1.3770E+08	1.8542E+08
Te-132	2.4120E-07	7.9448E-16	3.6246E+09	1.5538E+09
I-131	2.0828E-04	1.6800E-12	7.7232E+12	4.9630E+11
I-132	1.6971E-05	1.6441E-15	7.5009E+09	9.1055E+10
I-133	2.1120E-04	1.8644E-13	8.4419E+11	6.8265E+11
I-135	3.5850E-05	1.0208E-14	4.5537E+10	2.7211E+11
Xe-133	7.3252E+00	3.9134E-08	1.7720E+17	1.4019E+16
Xe-133m	1.8876E-01	4.2875E-10	1.9413E+15	3.8524E+14
Xe-135	6.7913E-01	2.6594E-10	1.1863E+15	2.5248E+15
Xe-135m	2.3978E-05	2.6340E-16	1.1750E+09	7.5889E+11
Cs-134	2.6433E-07	2.0430E-13	9.1814E+11	1.9708E+09
Cs-136	7.6563E-08	1.0446E-15	4.6257E+09	5.8772E+08
Cs-137	2.0539E-07	2.3613E-12	1.0379E+13	1.5307E+09
Ba-140	1.4817E-07	2.0239E-15	8.7060E+09	8.7723E+08

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La-140	4.9951E-08	8.9869E-17	3.8657E+08	1.4253E+08
La-141	2.1310E-11	3.7681E-21	1.6094E+04	1.6616E+06
Ce-141	3.6267E-09	1.2728E-16	5.4362E+08	2.1089E+07
Ce-143	2.1759E-09	3.2765E-18	1.3798E+07	1.6427E+07
Ce-144	2.9534E-09	9.2597E-16	3.8724E+09	1.7012E+07
Pr-143	1.4738E-09	2.1886E-17	9.2167E+07	8.3073E+06
Nd-147	5.3993E-10	6.6741E-18	2.7342E+07	3.2114E+06
Np-239	3.1387E-08	1.3529E-16	3.4090E+08	2.1128E+08
Pu-238	9.1998E-12	5.3738E-16	1.3597E+09	5.2922E+04
Pu-239	9.3047E-13	1.4970E-14	3.7720E+10	5.3445E+03
Pu-240	1.6388E-12	7.1950E-16	1.8054E+09	9.4276E+03
Pu-241	3.6403E-10	3.6811E-15	9.1984E+09	2.0944E+06
Am-241	2.0746E-13	6.0557E-17	1.5132E+08	1.1886E+03
Cm-242	5.6343E-11	1.7021E-17	4.2356E+07	3.2486E+05
Cm-244	3.7409E-12	4.5703E-17	1.1280E+08	2.1522E+04

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	1.4032E+18	0.0000E+00	
Elemental I (atoms)	3.6164E+11	0.0000E+00	
Organic I (atoms)	8.2096E+12	0.0000E+00	
Aerosols (kg)	2.9444E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.2669E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.4871E-14	
Total I (Ci)		4.7230E-04	

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.1516E+12
Organic I (atoms)	0.0000E+00	1.3431E+13
Aerosols (kg)	0.0000E+00	1.8514E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2654E+18
Elemental I (atoms)	5.7733E+13	5.8316E+11
Organic I (atoms)	2.7891E+14	2.8173E+12
Aerosols (kg)	2.8710E-10	2.9000E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7507E+17
Elemental I (atoms)	0.0000E+00	1.0799E+13
Organic I (atoms)	0.0000E+00	5.2172E+13
Aerosols (kg)	0.0000E+00	5.3704E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	4.8199E+18	0.0000E+00
Elemental I (atoms)	7.5458E+12	0.0000E+00
Organic I (atoms)	3.2158E+13	0.0000E+00
Aerosols (kg)	4.4329E-11	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9340E-01	2.7704E+00	2.7847E-01
Accumulated dose (rem)	5.0033E-01	4.3114E+00	6.3354E-01

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4598E-03	7.0222E-02	9.6159E-03
Accumulated dose (rem)	3.9404E-02	1.6331E-01	4.4481E-02

CR Doses:

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Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7927E-02	4.2987E-01	3.1638E-02
Accumulated dose (rem)	8.1349E-02	1.0146E+00	1.4298E-01

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	1.9031E-07	2.3126E-17	1.6384E+08	3.2108E+14
Kr-85	2.7139E-02	6.9238E-08	4.9054E+17	3.9992E+14
Kr-88	9.8264E-11	7.8365E-21	5.3628E+04	3.3927E+14
Rb-86	3.3515E-10	4.1190E-18	2.8843E+07	2.4179E+07
Rb-88	2.8586E-10	2.3681E-21	1.6205E+04	2.7632E+14
Sr-89	2.0073E-08	6.9093E-16	4.6752E+09	8.5290E+08
Sr-90	2.2680E-09	1.6626E-14	1.1125E+11	9.2492E+07
Sr-91	2.3729E-11	6.5459E-21	4.3319E+04	3.6913E+08
Y-90	1.4656E-09	2.6939E-18	1.8025E+07	1.8609E+07
Y-91	3.1567E-10	1.2872E-17	8.5183E+07	1.2359E+07
Zr-95	3.0047E-10	1.3986E-17	8.8661E+07	1.2656E+07
Zr-97	5.9019E-12	3.0873E-21	1.9167E+04	6.1551E+06
Nb-95	3.0905E-10	7.9034E-18	5.0100E+07	1.2613E+07
Mo-99	1.4451E-09	3.0131E-18	1.8329E+07	1.2882E+08
Tc-99m	1.4816E-09	2.8177E-19	1.7140E+06	1.2041E+08
Ru-103	3.1953E-09	9.9007E-17	5.7887E+08	1.3738E+08
Ru-106	1.4149E-09	4.2290E-16	2.4026E+09	5.8016E+07
Rh-105	3.9978E-10	4.7364E-19	2.7165E+06	7.0220E+07
Sb-127	1.9201E-09	7.1900E-18	3.4094E+07	1.3620E+08
Te-127	2.4923E-09	9.4438E-19	4.4781E+06	1.4484E+08
Te-127m	6.6325E-10	7.0315E-17	3.3342E+08	2.7191E+07
Te-129	1.7540E-09	8.3752E-20	3.9098E+05	1.3787E+08
Te-129m	2.0284E-09	6.7331E-17	3.1433E+08	8.7902E+07
Te-131m	9.0225E-10	1.1315E-18	5.2015E+06	2.1683E+08
Te-132	2.5403E-08	8.3673E-17	3.8174E+08	1.9980E+09
I-131	5.9779E-05	4.8218E-13	2.2166E+12	1.1862E+12
I-132	2.9860E-06	2.8928E-16	1.3198E+09	1.4005E+11
I-133	7.1151E-06	6.2809E-15	2.8440E+10	1.0014E+12
I-135	6.9985E-09	1.9928E-18	8.8896E+06	2.9399E+11
Xe-133	1.9936E+00	1.0651E-08	4.8225E+16	3.9066E+16
Xe-133m	2.9824E-02	6.7744E-11	3.0674E+14	9.0011E+14
Xe-135	1.1271E-03	4.4136E-13	1.9688E+12	3.1290E+15
Xe-135m	4.1537E-09	4.5629E-20	2.0354E+05	7.7660E+11
Cs-134	3.8741E-08	2.9943E-14	1.3457E+11	2.4885E+09
Cs-136	9.6008E-09	1.3100E-16	5.8006E+08	7.2877E+08
Cs-137	3.0180E-08	3.4697E-13	1.5252E+12	1.9333E+09
Ba-140	2.5092E-08	3.4275E-16	1.4743E+09	1.2059E+09
La-140	2.2060E-08	3.9689E-17	1.7072E+08	3.3824E+08
Ce-141	6.7836E-10	2.3808E-17	1.0168E+08	2.9477E+07
Ce-143	9.5610E-11	1.4397E-19	6.0631E+05	1.9418E+07
Ce-144	5.8453E-10	1.8327E-16	7.6643E+08	2.4008E+07
Pr-143	2.8305E-10	4.2034E-18	1.7702E+07	1.1795E+07
Nd-147	8.9074E-11	1.1011E-18	4.5107E+06	4.3963E+06
Np-239	2.5878E-09	1.1155E-17	2.8107E+07	2.6421E+08
Pu-238	1.8348E-12	1.0717E-16	2.7118E+08	7.4787E+04
Pu-239	1.8649E-13	3.0004E-15	7.5601E+09	7.5613E+03
Pu-240	3.2673E-13	1.4345E-16	3.5995E+08	1.3322E+04
Pu-241	7.2551E-11	7.3363E-16	1.8332E+09	2.9593E+06
Am-241	4.2312E-14	1.2351E-17	3.0863E+07	1.6864E+03
Cm-242	1.1091E-11	3.3505E-18	8.3376E+06	4.5802E+05
Cm-244	7.4559E-13	9.1091E-18	2.2482E+07	3.0411E+04

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	5.3908E+17	0.0000E+00
Elemental I (atoms)	1.1362E+10	0.0000E+00
Organic I (atoms)	2.2297E+12	0.0000E+00
Aerosols (kg)	4.0094E-13	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.6523E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.7272E-15
Total I (Ci)		6.9887E-05

Deposition Recirculating

Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.4644E+12
Organic I (atoms)	0.0000E+00	3.4623E+13

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Aerosols (kg) 0.0000E+00 2.2908E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3587E+19
Elemental I (atoms)	6.1430E+13	6.2050E+11
Organic I (atoms)	6.1882E+14	6.2507E+12
Aerosols (kg)	3.4985E-10	3.5338E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5161E+18
Elemental I (atoms)	0.0000E+00	1.1491E+13
Organic I (atoms)	0.0000E+00	1.1575E+14
Aerosols (kg)	0.0000E+00	6.5441E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	1.5520E+19	0.0000E+00
Elemental I (atoms)	8.2950E+12	0.0000E+00
Organic I (atoms)	8.2899E+13	0.0000E+00
Aerosols (kg)	5.4850E-11	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1783E-01	7.3542E+00	5.4343E-01
Accumulated dose (rem)	8.1816E-01	1.1666E+01	1.1770E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5522E-03	5.4013E-02	5.2092E-03
Accumulated dose (rem)	4.2957E-02	2.1732E-01	4.9690E-02

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3362E-02	5.4801E-01	3.0171E-02
Accumulated dose (rem)	9.4711E-02	1.5626E+00	1.7315E-01

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	1.6854E-02	4.2997E-08	3.0463E+17	1.9727E+15
Rb-86	7.8166E-11	9.6066E-19	6.7270E+06	3.6662E+07
Sr-89	8.6725E-09	2.9851E-16	2.0199E+09	1.8295E+09
Sr-90	1.3977E-09	1.0247E-14	6.8562E+10	2.2270E+08
Y-90	1.4051E-09	2.5825E-18	1.7280E+07	1.4132E+08
Y-91	1.4323E-10	5.8404E-18	3.8650E+07	2.8063E+07
Zr-95	1.3995E-10	6.5146E-18	4.1297E+07	2.7782E+07
Nb-95	1.7771E-10	4.5446E-18	2.8809E+07	2.9905E+07
Mo-99	1.2715E-12	2.6511E-21	1.6127E+04	1.4256E+08
Ru-103	1.2467E-09	3.8630E-17	2.2586E+08	2.8591E+08
Ru-106	8.3171E-10	2.4860E-16	1.4124E+09	1.3743E+08
Sb-127	1.0988E-11	4.1144E-20	1.9510E+05	1.6121E+08
Te-127	3.7121E-10	1.4066E-19	6.6697E+05	2.0288E+08
Te-127m	3.5359E-10	3.7486E-17	1.7775E+08	6.2932E+07
Te-129	6.3328E-10	3.0239E-20	1.4117E+05	1.9721E+08
Te-129m	7.3236E-10	2.4310E-17	1.1349E+08	1.7902E+08
Te-132	6.2131E-11	2.0465E-19	9.3368E+05	2.2814E+09
I-131	3.9635E-06	3.1970E-14	1.4697E+11	2.6245E+12
I-132	7.3625E-09	7.1327E-19	3.2541E+06	1.7880E+11
Xe-133	4.0480E-02	2.1626E-10	9.7922E+14	7.3780E+16
Xe-133m	5.7535E-06	1.3069E-14	5.9174E+10	1.1350E+15
Cs-134	2.3174E-08	1.7911E-14	8.0495E+10	4.6729E+09
Cs-136	1.4862E-09	2.0278E-17	8.9790E+07	1.0339E+09
Cs-137	1.8460E-08	2.1223E-13	9.3289E+11	3.6533E+09

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Ba-140	3.7645E-09	5.1421E-17	2.2119E+08	1.9978E+09
La-140	4.3728E-09	7.8673E-18	3.3841E+07	1.2094E+09
Ce-141	2.4052E-10	8.4414E-18	3.6053E+07	5.9711E+07
Ce-144	3.3868E-10	1.0619E-16	4.4407E+08	5.6590E+07
Pr-143	4.8022E-11	7.1314E-19	3.0033E+06	2.1314E+07
Nd-147	1.0652E-11	1.3167E-19	5.3943E+05	6.9867E+06
Pu-238	1.1357E-12	6.6337E-17	1.6785E+08	1.8035E+05
Pu-239	1.1555E-13	1.8591E-15	4.6844E+09	1.8311E+04
Pu-240	2.0172E-13	8.8564E-17	2.2223E+08	3.2095E+04
Pu-241	4.4640E-11	4.5140E-16	1.1280E+09	7.1213E+06
Am-241	3.1212E-14	9.1109E-18	2.2766E+07	4.3453E+03
Cm-242	6.1300E-12	1.8518E-18	4.6083E+06	1.0626E+06
Cm-244	4.5901E-13	5.6078E-18	1.3841E+07	7.3193E+04

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	3.0561E+17	0.0000E+00	
Elemental I (atoms)	6.8182E+08	0.0000E+00	
Organic I (atoms)	1.4594E+11	0.0000E+00	
Aerosols (kg)	2.4380E-13	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.6737E-16
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.6739E-16
Total I (Ci)			3.9708E-06

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.6621E+12
Organic I (atoms)	0.0000E+00	7.6656E+13
Aerosols (kg)	0.0000E+00	4.0910E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0163E+19
Elemental I (atoms)	6.4814E+13	6.5469E+11
Organic I (atoms)	1.3395E+15	1.3530E+13
Aerosols (kg)	6.5899E-10	6.6565E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1141E+19
Elemental I (atoms)	0.0000E+00	1.2124E+13
Organic I (atoms)	0.0000E+00	2.5055E+14
Aerosols (kg)	0.0000E+00	1.2327E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	7.0919E+19	0.0000E+00
Elemental I (atoms)	8.7683E+12	0.0000E+00
Organic I (atoms)	1.8354E+14	0.0000E+00
Aerosols (kg)	9.7952E-11	0.0000E+00

931

I-131 Summary
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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4751E-02
0.017	1.8470E+05	0.0000E+00	3.1395E+01
0.083	9.2044E+05	0.0000E+00	7.8060E+02
0.333	3.6817E+06	0.0000E+00	1.2120E+03
0.500	6.8012E+05	0.0000E+00	1.3959E+03
0.750	9.4093E+05	0.0000E+00	1.5615E+03
1.000	9.4889E+05	0.0000E+00	1.7377E+03
1.400	9.5870E+05	0.0000E+00	2.0221E+03

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1.700	9.6603E+05	0.0000E+00	2.2371E+03
2.000	9.7334E+05	0.0000E+00	2.4536E+03
2.250	5.9162E+04	4.0983E+04	2.5052E+03
2.400	6.0403E+04	3.7668E+04	2.5135E+03
2.700	6.0349E+04	3.7597E+04	2.5299E+03
3.000	6.0272E+04	3.7549E+04	2.5463E+03
3.300	6.0196E+04	3.7501E+04	2.5627E+03
3.600	6.0119E+04	3.7454E+04	2.5790E+03
3.900	6.0043E+04	3.7406E+04	2.5953E+03
4.000	6.0017E+04	3.7390E+04	2.6007E+03
4.300	5.9941E+04	3.7343E+04	2.6169E+03
4.600	5.9865E+04	3.7295E+04	2.6331E+03
4.900	5.9789E+04	3.7248E+04	2.6493E+03
5.200	5.9713E+04	3.7200E+04	2.6654E+03
5.500	5.9637E+04	3.7153E+04	2.6814E+03
5.800	5.9561E+04	3.7106E+04	2.6974E+03
6.100	5.9485E+04	3.7058E+04	2.7134E+03
6.400	5.9409E+04	3.7011E+04	2.7293E+03
6.700	5.9334E+04	3.6964E+04	2.7452E+03
7.000	5.9258E+04	3.6917E+04	2.7611E+03
7.300	5.9183E+04	3.6870E+04	2.7769E+03
7.600	5.9107E+04	3.6823E+04	2.7927E+03
7.900	5.9032E+04	3.6776E+04	2.8084E+03
8.000	5.9007E+04	3.6761E+04	2.8136E+03
8.300	5.8932E+04	3.6714E+04	2.8293E+03
8.600	5.8857E+04	3.6667E+04	2.8449E+03
8.900	5.8782E+04	3.6621E+04	2.8605E+03
9.200	5.8707E+04	3.6574E+04	2.8761E+03
9.500	5.8632E+04	3.6527E+04	2.8916E+03
9.800	5.8558E+04	3.6481E+04	2.9071E+03
10.100	5.8483E+04	3.6434E+04	2.9225E+03
10.400	5.8409E+04	3.6388E+04	2.9379E+03
16.000	5.7035E+04	3.5532E+04	3.2179E+03
24.000	5.5126E+04	3.4343E+04	3.5946E+03
96.000	4.1555E+04	2.5888E+04	4.3816E+03
720.000	3.5475E+03	2.2101E+03	1.7755E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSL Volume 1 I-131 (Curies)
0.000	6.6308E-18	4.6002E-21	1.1264E-04
0.017	1.5408E-10	1.0685E-13	9.1531E-02
0.083	3.8728E-07	7.0509E-11	1.5555E+00
0.333	2.2470E-04	4.0188E-08	1.0247E+01
0.500	1.2600E-03	2.2258E-07	3.3483E+00
0.750	5.5091E-03	9.5091E-07	3.0479E+00
1.000	1.3844E-02	2.3319E-06	3.0941E+00
1.400	3.8330E-02	6.2192E-06	3.1265E+00
1.700	6.8280E-02	1.0789E-05	3.1504E+00
2.000	1.1073E-01	1.7060E-05	3.1743E+00
2.250	1.5733E-01	2.0996E-05	3.0936E-01
2.400	1.9045E-01	2.3798E-05	2.0312E-01
2.700	2.6823E-01	3.0303E-05	1.9711E-01
3.000	3.6114E-01	3.7878E-05	1.9685E-01
3.300	4.6890E-01	4.6380E-05	1.9660E-01
3.600	5.9120E-01	5.5679E-05	1.9635E-01
3.900	7.2772E-01	6.5658E-05	1.9610E-01
4.000	7.7634E-01	6.9116E-05	1.9601E-01
4.300	9.3132E-01	7.9835E-05	1.9576E-01
4.600	1.0997E+00	9.0998E-05	1.9552E-01
4.900	1.2813E+00	1.0252E-04	1.9527E-01
5.200	1.4756E+00	1.1433E-04	1.9502E-01
5.500	1.6824E+00	1.2635E-04	1.9477E-01
5.800	1.9012E+00	1.3853E-04	1.9452E-01
6.100	2.1317E+00	1.5080E-04	1.9427E-01
6.400	2.3737E+00	1.6312E-04	1.9403E-01
6.700	2.6267E+00	1.7545E-04	1.9378E-01
7.000	2.8904E+00	1.8775E-04	1.9353E-01
7.300	3.1646E+00	1.9997E-04	1.9329E-01
7.600	3.4488E+00	2.1210E-04	1.9304E-01
7.900	3.7427E+00	2.2411E-04	1.9280E-01
8.000	3.8428E+00	2.2807E-04	1.9271E-01
8.300	4.1493E+00	2.1780E-04	1.9247E-01
8.600	4.4648E+00	2.0896E-04	1.9222E-01
8.900	4.7890E+00	2.0140E-04	1.9198E-01

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9.200	5.1217E+00	1.9497E-04	1.9173E-01
9.500	5.4625E+00	1.8956E-04	1.9149E-01
9.800	5.8111E+00	1.8504E-04	1.9125E-01
10.100	6.1674E+00	1.8130E-04	1.9100E-01
10.400	6.5309E+00	1.7826E-04	1.9076E-01
16.000	1.4364E+01	1.8083E-04	1.8627E-01
24.000	2.7489E+01	2.0828E-04	1.8004E-01
96.000	8.4568E+01	5.9779E-05	1.3572E-01
720.000	2.4693E+02	3.9635E-06	1.1586E-02

Time (hr)	MSL Volume 2 I-131 (Curies)	MSL Volume 3 I-131 (Curies)
0.000	4.2341E-07	1.8232E-11
0.017	1.0604E-02	1.3942E-05
0.083	9.7751E-01	6.7649E-03
0.333	2.9472E+01	9.0494E-01
0.500	5.0427E+01	3.0542E+00
0.750	6.1061E+01	7.2225E+00
1.000	7.1470E+01	1.2071E+01
1.400	8.6767E+01	2.1102E+01
1.700	9.7206E+01	2.8762E+01
2.000	1.0685E+02	3.7066E+01
2.250	1.0477E+02	4.4130E+01
2.400	1.0065E+02	4.8072E+01
2.700	9.2767E+01	5.5190E+01
3.000	8.5587E+01	6.1369E+01
3.300	7.9049E+01	6.6704E+01
3.600	7.3097E+01	7.1279E+01
3.900	6.7677E+01	7.5174E+01
4.000	6.5981E+01	7.6334E+01
4.300	6.1198E+01	7.9430E+01
4.600	5.6843E+01	8.1999E+01
4.900	5.2877E+01	8.4098E+01
5.200	4.9265E+01	8.5777E+01
5.500	4.5976E+01	8.7082E+01
5.800	4.2981E+01	8.8054E+01
6.100	4.0253E+01	8.8731E+01
6.400	3.7769E+01	8.9146E+01
6.700	3.5505E+01	8.9329E+01
7.000	3.3444E+01	8.9309E+01
7.300	3.1566E+01	8.9110E+01
7.600	2.9855E+01	8.8755E+01
7.900	2.8296E+01	8.8263E+01
8.000	2.7808E+01	8.8071E+01
8.300	2.6431E+01	8.7425E+01
8.600	2.5176E+01	8.6682E+01
8.900	2.4033E+01	8.5855E+01
9.200	2.2990E+01	8.4958E+01
9.500	2.2040E+01	8.4002E+01
9.800	2.1173E+01	8.2997E+01
10.100	2.0383E+01	8.1952E+01
10.400	1.9663E+01	8.0875E+01
16.000	1.3455E+01	6.0697E+01
24.000	1.1911E+01	4.2858E+01
96.000	8.9029E+00	2.3879E+01
720.000	7.6004E-01	2.0272E+00

Cumulative Dose Summary
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Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	9.8036E-12	9.7442E-13	1.3346E-12	1.3265E-13	7.5562E-14	2.7919E-15
0.083	2.4622E-08	2.3375E-09	3.3520E-09	3.1822E-10	1.8692E-10	1.0465E-11
0.333	1.4246E-05	1.1818E-06	1.9394E-06	1.6089E-07	4.3948E-07	2.3024E-08
0.500	7.9740E-05	6.3071E-06	1.0855E-05	8.5862E-07	3.8147E-06	1.9502E-07
0.750	3.4781E-04	2.9582E-05	4.7349E-05	4.0272E-06	2.7573E-05	1.4480E-06
1.000	8.7209E-04	9.2100E-05	1.1872E-04	1.2538E-05	9.7334E-05	5.6890E-06
1.400	2.4078E-03	3.8735E-04	3.2779E-04	5.2732E-05	3.8560E-04	3.0061E-05
1.700	4.2791E-03	8.9087E-04	5.8253E-04	1.2128E-04	8.2669E-04	8.1789E-05
2.000	6.9223E-03	1.7645E-03	9.4236E-04	2.4021E-04	1.5498E-03	1.8986E-04

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2.250 9.8147E-03 2.8542E-03 1.3361E-03 3.8855E-04 2.3765E-03 3.3751E-04
 2.400 1.1866E-02 3.6780E-03 1.6154E-03 5.0071E-04 2.9609E-03 4.5222E-04
 2.700 1.6671E-02 5.7104E-03 2.2695E-03 7.7738E-04 4.3664E-03 7.5307E-04
 3.000 2.2392E-02 8.2368E-03 3.0483E-03 1.1213E-03 6.1345E-03 1.1717E-03
 3.300 2.9005E-02 1.1232E-02 3.9485E-03 1.5291E-03 8.3150E-03 1.7282E-03
 3.600 3.6485E-02 1.4665E-02 4.9669E-03 1.9964E-03 1.0950E-02 2.4396E-03
 3.900 4.4809E-02 1.8500E-02 6.1001E-03 2.5185E-03 1.4075E-02 3.3185E-03
 4.000 4.7767E-02 1.9861E-02 6.5027E-03 2.7038E-03 1.5230E-02 3.6503E-03
 4.300 5.7177E-02 2.4174E-02 7.7837E-03 3.2909E-03 1.9052E-02 4.7652E-03
 4.600 6.7371E-02 2.8802E-02 9.1716E-03 3.9209E-03 2.3424E-02 6.0615E-03
 4.900 7.8326E-02 3.3707E-02 1.0663E-02 4.5887E-03 2.8362E-02 7.5391E-03
 5.200 9.0017E-02 3.8855E-02 1.2254E-02 5.2896E-03 3.3879E-02 9.1953E-03
 5.500 1.0242E-01 4.4212E-02 1.3943E-02 6.0188E-03 3.9985E-02 1.1025E-02
 5.800 1.1551E-01 4.9747E-02 1.5724E-02 6.7723E-03 4.6686E-02 1.3020E-02
 6.100 1.2926E-01 5.5430E-02 1.7596E-02 7.5459E-03 5.3984E-02 1.5172E-02
 6.400 1.4365E-01 6.1235E-02 1.9555E-02 8.3362E-03 6.1880E-02 1.7471E-02
 6.700 1.5865E-01 6.7138E-02 2.1598E-02 9.1398E-03 7.0372E-02 1.9906E-02
 7.000 1.7425E-01 7.3116E-02 2.3722E-02 9.9537E-03 7.9455E-02 2.2466E-02
 7.300 1.9042E-01 7.9151E-02 2.5923E-02 1.0775E-02 8.9124E-02 2.5139E-02
 7.600 2.0714E-01 8.5223E-02 2.8199E-02 1.1602E-02 9.9372E-02 2.7913E-02
 7.900 2.2439E-01 9.1317E-02 3.0548E-02 1.2431E-02 1.1019E-01 3.0778E-02
 8.000 2.3026E-01 9.3351E-02 3.1346E-02 1.2708E-02 1.1392E-01 3.1752E-02
 8.300 2.4818E-01 9.9454E-02 3.2190E-02 1.3242E-02 1.2493E-01 3.4624E-02
 8.600 2.6658E-01 1.0555E-01 3.3057E-02 1.3775E-02 1.3545E-01 3.7351E-02
 8.900 2.8545E-01 1.1163E-01 3.3946E-02 1.4305E-02 1.4553E-01 3.9922E-02
 9.200 3.0475E-01 1.1768E-01 3.4855E-02 1.4832E-02 1.5525E-01 4.2344E-02
 9.500 3.2448E-01 1.2369E-01 3.5785E-02 1.5356E-02 1.6465E-01 4.4629E-02
 9.800 3.4462E-01 1.2967E-01 3.6733E-02 1.5875E-02 1.7379E-01 4.6790E-02
 10.100 3.6515E-01 1.3560E-01 3.7700E-02 1.6389E-02 1.8270E-01 4.8842E-02
 10.400 3.8605E-01 1.4148E-01 3.8685E-02 1.6898E-02 1.9142E-01 5.0796E-02
 16.000 8.2824E-01 2.4218E-01 5.9515E-02 2.5508E-02 3.4603E-01 8.0675E-02
 24.000 1.5410E+00 3.5507E-01 9.3090E-02 3.4865E-02 5.8476E-01 1.1134E-01
 96.000 4.3114E+00 6.3354E-01 1.6331E-01 4.4481E-02 1.0146E+00 1.4298E-01
 720.000 1.1666E+01 1.1770E+00 2.1732E-01 4.9690E-02 1.5626E+00 1.7315E-01

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
7.2	3.6763E-02	1.1972E-01	4.0538E-02

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Attachment 13.20 – Evaluation of RAI-5

- The LAR discusses the licensee's review of various NRC AST safety evaluation (SE) and how these SEs identified the staff's concern with how much deposition is assumed in the LOCA MSIV leakage pathways when using the AEB-98-03 model, "Assessment of the Radiological Consequences for the Perry Pilot Plant Application Using the Revised (NUREG-1465) Source Term," dated December 9, 1998 (ADAMS Accession No. ML011230531).

In the NRC staff's SE dated May 29, 2008 (ADAMS Accession No. ML081230439), to approve Exelon's full implementation of the AST methodology for Nine Mile Point 2, the NRC staff indicated that it had concerns regarding the use of AEB-98-03. At that time, the NRC staff based its approval of the LAR, in part, upon additional conservatism in the deposition model used. Specifically, the SE, in part, states:

However, for additional conservatism, and to address [NRC] concerns historically documented by the NRC staff, the licensee used [1/2 of] the 3rd percentile settling velocity of 0.000066 m/sec. The NRC staff agrees that the 3rd percentile conservatively reflects the effectiveness of drywell spray activity removal in containment upstream of this pathway.

The NRC staff notes that the current licensing basis for Nine Mile Point 2 provided in the supporting calculation previously transmitted to the NRC (see Calculation No. H21C-106, Revision 0 (ADAMS Accession No. ML071580354)), page C2 indicates that ½ of the 3rd percentile is equivalent to the settling velocity of 0.000066 m/sec.

In Attachment 1, page 5 of the LAR the licensee states:

The revised LOCA dose analysis implements a 20-group probabilistic settling velocity distribution for MSIV leakage rather than using the AEB-98-03 single, median value, model. The 20-group probabilistic distribution methodology has been previously approved at Clinton (Reference 10), Limerick (Reference 11), and LaSalle (Reference 12). The same settling velocity probability distribution function shown in Equation 5 of AEB-98-03 is used to conservatively calculate aerosol settling velocity as follows [...]

The NRC staff notes that the analyses cited as precedents did not credit drywell sprays. Page 96 of NUREG/CR-5966, "A Simplified Model of Aerosol Removal by Containment Sprays," (ADAMS Accession No. ML063480542), provides details on how sprays impact aerosols. NUREG/CR-5966 indicates that the sprays shift the sizes of aerosols in the containment towards those that are removed most slowly (the mean aerosol size decreases as the sprays operate). The licensee's estimates of aerosol deposition in the steam lines is determined using, in part Equation 5 of AEB-98-03. Equation 5 of AEB-98-03 provides the aerosol settling (and thus the aerosol deposition) in the steam line and indicates that the aerosol settling is proportional to the square of the diameter of the aerosols. Because the sprays shift the size of the aerosols to smaller sizes, the aerosols settling in the steam lines would decrease due to these smaller diameter aerosols.

In the 2007 Nine Mile Point 2 LAR to incorporate 10 CFR 50.67 into the Nine Mile Point 2 licensing basis, Calculation H21C-106, Revision 0, page C1 discusses a "penalty" on the sedimentation velocity (or aerosol settling velocity) used for bypass pathways to account for the recognition that the sprays preferentially remove large particles in primary containment.

As discussed in Nine Mile Point 2's safety evaluation dated May 29, 2008, the NRC staff stated that they had issues with the use of AEB-98-03 for modeling aerosol deposition for Nine Mile Point 2. In this safety evaluation the staff stated that the licensee used a settling velocity of 0.000066 m/sec to address the staff's issues regarding the use of AEB-98-03 and that this value was sufficiently conservative (along with other conservatisms) to reflect the effectiveness of the sprays.

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From an examination of the submitted information it appears that the licensee considers the aerosol removal by sprays and aerosol removal in the main steam lines as independent removal mechanisms. The NRC staff notes that regardless of the specific removal mechanisms involved, larger aerosol particles in the containment atmosphere will be the preferentially removed therefore making subsequent removal by deposition in downstream piping more challenging.

Based upon the above observations, it is unclear: 1) why assuming that the aerosol deposition in the steam line is independent of the RHR drywell spray credit, and 2) how input parameters to the 20-group method reflect changing aerosol characteristic due to the drywell sprays.

Please provide technical information to:

- a) Describe how the gravitational settling credited in the main steam lines, using the 20-group method, considers the changing aerosol characteristics (i.e., aerosol size and density distributions) due to the sprays and as these aerosols move through the main steam lines.
- b) Explain why the results of the 20-group method when crediting sprays are valid for Nine Mile Point 2.

Response to RAI-5

Both the CLB and the revised LOCA AST dose analysis assume the drywell is the source of MSIV leakage in accordance with the NRC guidance summarized above, so it is appropriate to consider radionuclide removal mechanisms in the drywell before release via the MSIV leakage pathway. A sensitivity analysis was performed to evaluate the impact of sprays on the aerosol settling velocity and to identify other inputs with well-defined uncertainty or conservatism that could be used to offset the uncertainty associated with the current aerosol deposition model. This new sensitivity analysis is documented in design analysis H21C-117 and concludes that conservatism associated with modeling the MSIV leakage as 100 scfh through two lines instead of 50 scfh each through four lines is by itself nearly sufficient to offset the uncertainty introduced by the drywell spray effects on the aerosol deposition model. Calculation H21C-117 also evaluates the margin associated with crediting impaction on the first MSIV, using more realistic breathing rates, and crediting aerosol holdup and deposition in the condenser. The calculation demonstrates that the control room dose without credit for the condenser is less than the dose in the main body of this calculation when using the discussed conservatisms. For additional details consult H21C-117, "AST LOCA Aerosol Removal Factors and Margin Assessment."

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Attachment 13.21 – Evaluation of RAI-6

6. Assumption 6.5 in Appendix A of RG 1.183 provides guidance on an acceptable model for crediting the deposition of elemental iodine in the main steam piping downstream of the MSIVs, and states that the amount of reduction allowed will be evaluated on an individual case basis. Assumption 6.5 references the J.E. Cline model (ADAMS Accession No. ML003683718). On page 10 of Attachment 1 of the LAR it states that the J.E. Cline methodology is used to calculate the time-dependent deposition and resuspension rates of elemental iodine for the MSIV release pathways in the revised LOCA analysis. The LAR proposes to increase the elemental iodine deposition in the steam line which would be expected to decrease the estimated calculated doses from the postulated LOCA.

The J.E. Cline model describes that the steam line temperatures assumed after the postulated LOCA directly impact the amount of elemental deposition credited in the steam line, which in turn, directly impact the estimated calculated doses from the postulated LOCA. As described in Calculation H21C-106, Revision 3, page 55, steam line temperatures are assumed from the J.E. Cline model. No justification for why these steam line temperatures are applicable for Nine Mile Point 2 is provided.

In addition, Attachment 1 of the LAR, page 8, states the steam line piping steel heat-up due to fission product deposition in the steam line is conservatively estimated to be 0.5 degrees Fahrenheit per hour (°F/hr) based upon Reference 14 (“BWR Steam Line Radionuclide Concentration Distribution following a DBA LOCA” (ADAMS Accession No. ML102380174) of the LAR. The NRC staff notes that Reference 14 is not part of the J.E. Cline model or RG 1.183, Revision 0. Therefore, the NRC staff reviewed the assumptions used to derive the estimated heat up in the steam line and the information regarding the steam line temperatures provided in the LAR.

- a) The heat-up values calculated in Reference 14 appear to range between 0.5 °F/hr and 2.5 °F/hr (see Section 3.2.2, page 32 of the LARs Reference 14) depending upon the assumptions made. No justification is provided on why a heat up rate of 0.5 °F /hr is applicable to Nine Mile Point 2. Please provide additional information to justify the use of the heat up rate of 0.5 °F /hr.
- b) Per Reference 14 of the LAR, the piping heat up value of 0.5 °F/hr is based, in part, upon only the “Group 2 (Cesium Iodide and Rubidium Iodide) radionuclides, however, the LAR credits deposition of a significant amount of other radionuclides (that include almost all the aerosols and a significant amount of the elemental iodine that leaks into the steam lines). It is not clear why only Group 2 radionuclides are considered and not considering the other radionuclides could underestimate the decay heat, steam line temperatures, and estimated doses. Please provide additional information to explain why use of only Group 2 radionuclides does not result in an underestimation of the decay heat, steam line temperatures, and estimated doses.

The value of 0.5 °F/hr is based, in part, upon the assumption that a quarter of the deposited power would escape based upon unattenuated gamma radiation. However, it appears that the decay power is based upon the thermal power. No information is provided as to why assuming a quarter of the deposited power is lost, due to gamma radiation, is an appropriate assumption that would result in an accurate heat up rate or estimated doses. Also, the value of 0.5 °F/hr is based, in part, upon on the assumption that the amount of Group 2 (i.e., CsI) mass leaked to the environment (via the steam line pathway) by the end of “the time frame of interest” is about 2.3E-5 (as a fraction of core inventory). No justification is provided on the basis of this value and how the “time frame of interest” is defined.

Please provide additional information to:

- i. Explain why assuming a quarter of the deposited power is lost, due to gamma radiation, results in an accurate heat up rate and estimated doses.

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- ii. Clarify how the value of $2.3\text{E-}5$ relates to the deposition in the steam line and state how the “time frame of interest” is defined.
- c) The value of $0.5\text{ }^{\circ}\text{F/hr}$ heat up rate assumes that the deposited power would uniformly heat up steam piping that is 5 centimeter (cm) thick. However, the heat up rate would not be uniform because the radionuclides would be deposited on the inner surfaces of the pipe (where the temperatures would be higher than other portions of the pipe). Also, the assumed 5 cm pipe thickness in Reference 14 conflicts with the pipe thickness of 2.5 cm (as shown in Table 3 of the J.E. Cline model) and used to create the steam line temperature profile used by Nine Mile Point 2 in the revised LOCA analysis. No information is provided as to why the Reference 14 assumptions of a uniform heat-up rate and 5 cm pipe thickness appropriately reflect the expected temperatures in the steam line piping when the temperatures in the piping would not be uniform and the temperatures assumed by Nine Mile Point 2 are derived upon different main steam pipe thicknesses. Please provide additional information to justify the assumption of a uniform heat up rate and a 5 cm pipe thickness.
- d) In Attachment 1, page 8, the rise in steam line temperature (due only to fission product deposition) during the accident period of 720 hours is $360\text{ }^{\circ}\text{F}$ (assuming no radioactive decay and heat loss). However, it appears that in Table 5 of Calculation H21C-106, Revision 3, the steam line temperature used to determine the revised elemental deposition is decreasing. Using the equation on page 56 of Calculation H21C-106, Revision 3, the steam line temperature would continue to be about $80\text{ }^{\circ}\text{F}$ at 720 hours which is below the temperature rise value of $360\text{ }^{\circ}\text{F}$ due to only deposition.

Calculation H21C-106, Revision 3, page 21, states that:

The inboard piping is connected to the RPV [reactor pressure vessel] and subjected to achieve the temperature the same as the RPV dome prior to water being restored around 1 hr. Preliminary results using MAAP for Quad Cities indicates that the temperatures in the RPV head may briefly spike over 700°F but then fall below $600\text{ }^{\circ}\text{F}$. The temperature in the first MSL [main steam line] node also exceeds $600\text{ }^{\circ}\text{F}$ in a few cases for short duration, but generally stays below $600\text{ }^{\circ}\text{F}$. In the worst case the temperature transient in the inboard piping may last less than an hour that may potentially impact the aerosol physics and plateout mechanism, which may affect the aerosol removal credited in the analysis.

As discussed above, the steam line temperatures impact the amount of elemental deposition, thereby, impacting the doses. The temperature profile used for calculating the elemental deposition in the revised LOCA analysis does reflect any increasing steam line temperatures as indicated in Reference 14. Not considering these increases in steam line temperature would underestimate the dose results.

Please provide additional information to justify use of:

- i. the steam line temperature profile proposed in the LAR is applicable to Nine Mile Point 2,
- ii. the Reference 14 analysis are correct and applicable to Nine Mile Point 2,
- iii. the preliminary MAPP results for Quad Cities are appropriate for design basis calculations for Nine Mile Point 2.

Response to RAI-6

H21C-106, Revision 3 credited time-dependent elemental iodine removal in the main steam lines using the J.E. Cline model and associated predicted steam line temperatures as a function of time. As discussed in the NRC public meeting on April 9, 2020, to address this RAI, instead of using the J.E. Cline model to determine the main steam line elemental iodine removal, H21C-106 Revision 4 implements a constant 50% elemental iodine removal efficiency in the main steam lines, consistent with the Nine Mile Point 2 current licensing basis (CLB), H21C-106 Revision 2, and previously approved by

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the NRC. This methodology is not temperature or time dependent and conservatively was only based on credited deposition in the piping between the MSIVs for each main steam line. Specifically, the time-dependent removal efficiencies in the well-mixed nodes of each main steam line in H21C-106 Revision 3 are replaced with a 50% filter on elemental iodine in a single pathway for each modelled steam line.

Other bypass leakage pathways from the wetwell and drywell are also included in the Nine Mile Point Unit 2 licensing basis. In the H21C-106 Revision 3 models submitted with the LAR, the most limiting time-dependent elemental iodine removal calculated for the steam line segments was applied to the wetwell and drywell bypass leakage pathways. Like the main steam line changes described previously, the other drywell and wetwell bypass leakage pathways are modified in H21C-106 Revision 4 to model a constant 50% elemental iodine removal, consistent with the CLB.

Additionally, discussion in Section 2.3.1.2 of H21C-106, Revision 3 related to the heatup of the main steam lines, and the associated justification of inadequate conditions for aerosol re-vaporization, is removed from the calculation. This discussion included the J.E. Cline (Reference 14 from the LAR) analysis and preliminary MAAP results for Quad Cities to justify a bounding heatup in the main steam lines. However, not considering aerosol re-vaporization due to potential main steam line heatup is consistent with the approved AEB-98-03 methodology for aerosol deposition used in the CLB analysis. As such, the references discussed in this RAI have been removed from the analysis and will not be part of the basis for aerosol behavior at Nine Mile Point Unit 2, consistent with what is already approved for Nine Mile Point Unit 2.

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Attachment 13.22 – RADTRAD Output File “NMP2MS11.o0”**Effective Lambda**

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:26:53
#####

#####
File information
#####

Plant file           = C:\radtrad3.03\NMP2\Rev 4\NMP2MS11.psf
Inventory file       = c:\radtrad3.03\nmp2\nmp2.nif
Release file        = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Lambdas, and CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
```


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```

0
0
Compartment 5:
CR
1
3.8100E+05
0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9070E+02
0
0
0
1
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2840E+02
0
0
0
1
0
Compartment 8:
Intact Inboard Volume 3
3
3.3180E+02
0
0
0
1
0
Compartment 9:
Intact Outboard Volume 4
3
4.8700E+02
0
0
0
1
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment (Released to Dummy)
1
3
2

```

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Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2
3
2

Pathway 7:

DW to MSIV Failed Inboard Volume 1

1
6
2

Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Pathway 7)

7
4
2

Pathway 10:

DW to Intact Inboard Volume 3

1
8
2

Pathway 11:

Intact Inboard Volume 3 to Intact Outboard Volume 4

8
9
2

Pathway 12:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:

Intact Outboard Volume 4 to Environment (Pathway 8)

9
4
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

9

Compartment 1:

0

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```

1
1
0.0000E+00
5
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  0.0000E+00
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
5
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  1.9800E+01
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
Compartment 4:
0
1
0
0
0
0
0
0
0
0
Compartment 5:
1
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Compartment 6:
0
1
0
0

```

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0
0
0
1
2
0.0000E+00 6.4400E+00
7.2000E+02 0.0000E+00
0

Compartment 7:

0
1
0
0
0
0
0
1
2
0.0000E+00 6.1100E+00
7.2000E+02 0.0000E+00
0

Compartment 8:

0
1
0
0
0
0
0
0
1
2
0.0000E+00 6.5300E+00
7.2000E+02 0.0000E+00
0

Compartment 9:

0
1
0
0
0
0
0
0
1
2
0.0000E+00 6.1400E+00
7.2000E+02 0.0000E+00
0

Pathways:

15
Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3
0.0000E+00 0.0000E+00
2.0000E+00 8.9710E+04
7.2000E+02 0.0000E+00
0

Pathway 2:

0
0
0
0
0
0
0
0

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```

0
0
0
1
3
0.0000E+00  0.0000E+00
2.0000E+00  1.4400E+05
7.2000E+02  0.0000E+00
0
Pathway 3:
0
0
0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 4:
0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 5:
0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 6:
0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00

```


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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 11:

0
0
0
0
0
1
5

0.0000E+00 6.7600E-01 0.0000E+00 0.0000E+00 0.0000E+00
8.0000E+00 6.7600E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
9.6000E+01 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 12:

0
0
0
0
0
1
3

0.0000E+00 7.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6700E-02 1.3500E+03 9.9000E+01 9.9000E+01 9.9000E+01
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 13:

0
0
0
0
0
1
7

0.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
4.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 14:

0
0
0
0
0
1
3

0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02

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7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 15:

0
0
0
0
0
1
5

0.0000E+00 1.6670E+00 0.0000E+00 5.0000E+01 0.0000E+00

8.0000E+00 1.6670E+00 0.0000E+00 5.0000E+01 0.0000E+00

2.4000E+01 8.3300E-01 0.0000E+00 5.0000E+01 0.0000E+00

9.6000E+01 8.3300E-01 0.0000E+00 5.0000E+01 0.0000E+00

7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Dose Locations:

3

Location 1:

EAB

4
1
2

0.0000E+00 1.1900E-04

7.2000E+02 0.0000E+00

1
2

0.0000E+00 3.5000E-04

7.2000E+02 0.0000E+00

0

Location 2:

LPZ

4
1
5

0.0000E+00 1.6200E-05

8.0000E+00 1.0900E-05

2.4000E+01 4.5900E-06

9.6000E+01 1.3300E-06

7.2000E+02 0.0000E+00

1
4

0.0000E+00 3.5000E-04

8.0000E+00 1.8000E-04

2.4000E+01 2.3000E-04

7.2000E+02 0.0000E+00

0

Location 3:

CR

5
0
1
2

0.0000E+00 3.5000E-04

7.2000E+02 0.0000E+00

1
4

0.0000E+00 1.0000E+00

2.4000E+01 6.0000E-01

9.6000E+01 4.0000E-01

7.2000E+02 0.0000E+00

Effective Volume Location:

1
6

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0.0000E+00 1.4700E-03
2.0000E+00 9.7400E-04
8.0000E+00 3.6300E-04
2.4000E+01 2.4500E-04
9.6000E+01 1.9000E-04
7.2000E+02 0.0000E+00

Simulation Parameters:

7

0.0000E+00 1.0000E-02
1.0000E+00 1.0000E-01
2.0000E+00 5.0000E-01
8.0000E+00 1.0000E+00
2.4000E+01 2.0000E+00
9.6000E+01 5.0000E+00
7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o642

1

1

1

0

0

End of Scenario File

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:26:53
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1

Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Exit Pathway Number 12: CR Filtered Intake (Pathway 9)

Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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Name: MSIV Failed Inboard Volume 1
Compartment volume = 3.9070E+02 (Cubic feet)
Compartment type is Normal
Removal devices within compartment:
Deposition
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2840E+02 (Cubic feet)
Compartment type is Normal
Removal devices within compartment:
Deposition
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3180E+02 (Cubic feet)
Compartment type is Normal
Removal devices within compartment:
Deposition
Pathways into and out of compartment 8
Inlet Pathway Number 10: DW to Intact Inboard Volume 3
Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Outboard Volume 4
Compartment volume = 4.8700E+02 (Cubic feet)
Compartment type is Normal
Removal devices within compartment:
Deposition
Pathways into and out of compartment 9
Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:26:53
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Natural Deposition: Aerosol data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	6.4400E+00
7.2000E+02	0.0000E+00

Compartment number 7: MSIV Failed Outboard Volume 2

Natural Deposition: Aerosol data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	6.1100E+00
7.2000E+02	0.0000E+00

Compartment number 8: Intact Inboard Volume 3

Natural Deposition: Aerosol data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	6.5300E+00
7.2000E+02	0.0000E+00

Compartment number 9: Intact Outboard Volume 4

Natural Deposition: Aerosol data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	6.1400E+00
7.2000E+02	0.0000E+00

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

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Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Pathway Filter: Removal Data

Time (hr)	Flow Rate	Filter Efficiencies (%)		
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	(cfm)	Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	0.0000E+00	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	0.0000E+00	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	0.0000E+00	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	0.0000E+00	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	0.0000E+00	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	0.0000E+00	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	0.0000E+00	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	0.0000E+00	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

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LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:26:53
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#   #   #   #   #   #   #   #   #
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#   #   #   #   #   #   #   #   #
#   #   #   #   #   #   #   #   #
#####

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 Dose, Detailed model and Detailed Inventory Output
 #####

EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0053E-10	1.4080E-08	6.9993E-10
Accumulated dose (rem)		1.0053E-10	1.4080E-08	6.9993E-10

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3685E-11	1.9167E-09	9.5284E-11
Accumulated dose (rem)		1.3685E-11	1.9167E-09	9.5284E-11

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.5987E-14	1.1961E-10	5.1483E-12
Accumulated dose (rem)		5.5987E-14	1.1961E-10	5.1483E-12

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-85m		5.4275E-11	6.5951E-21	4.6726E+04	5.6744E+01
Kr-85		2.7506E-12	7.0174E-18	4.9717E+07	2.8737E+00
Kr-87		1.0879E-10	3.8407E-21	2.6585E+04	1.1394E+02
Kr-88		1.4856E-10	1.1847E-20	8.1076E+04	1.5538E+02
Rb-86		3.5817E-13	4.4019E-21	3.0825E+04	3.7513E-01
I-131		1.5202E-10	1.2262E-18	5.6370E+06	1.5921E+02
I-132		2.2030E-10	2.1343E-20	9.7369E+04	2.3102E+02
I-133		3.1506E-10	2.7813E-19	1.2593E+06	3.3001E+02
I-134		3.5689E-10	1.3378E-20	6.0123E+04	3.7509E+02
I-135		2.9739E-10	8.4682E-20	3.7775E+05	3.1160E+02
Xe-133		3.3651E-10	1.7978E-18	8.1403E+06	3.5157E+02
Xe-133m		1.0322E-11	2.3445E-20	1.0616E+05	1.0784E+01
Xe-135		1.4165E-10	5.5466E-20	2.4743E+05	1.4783E+02
Xe-138		2.8750E-10	2.9963E-21	1.3075E+04	3.0436E+02
Cs-134		3.5818E-11	2.7684E-17	1.2442E+08	3.7514E+01
Cs-136		1.0928E-11	1.4911E-19	6.6025E+05	1.1446E+01
Cs-137		2.7808E-11	3.1970E-16	1.4053E+09	2.9124E+01

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)		5.8390E+07	0.0000E+00
Elemental I (atoms)		1.9238E+05	0.0000E+00
Organic I (atoms)		1.1900E+04	0.0000E+00
Aerosols (kg)		3.4912E-16	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.9904E-20
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.5491E-20
Total I (Ci)			1.3417E-09

	Deposition	Recirculating
Time (h) =	0.0167	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3816E+07
Elemental I (atoms)	0.0000E+00	1.4439E+05
Organic I (atoms)	0.0000E+00	8.9312E+03
Aerosols (kg)	0.0000E+00	2.6198E-16

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4605E+07
Elemental I (atoms)	0.0000E+00	4.8129E+04
Organic I (atoms)	0.0000E+00	2.9771E+03
Aerosols (kg)	0.0000E+00	8.7325E-17

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	3.2875E+04	0.0000E+00
Elemental I (atoms)	1.0833E+02	0.0000E+00
Organic I (atoms)	6.7010E+00	0.0000E+00
Aerosols (kg)	1.9767E-19	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.3244E-08	7.3886E-06	3.6741E-07
Accumulated dose (rem)		5.3345E-08	7.4027E-06	3.6811E-07

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.2484E-09	1.0058E-06	5.0017E-08
Accumulated dose (rem)		7.2620E-09	1.0078E-06	5.0112E-08

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.4264E-11	6.7628E-08	2.9513E-09
Accumulated dose (rem)		7.4320E-11	6.7748E-08	2.9564E-09

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	2.2995E-08	1.1328E-18	8.2192E+06	6.6242E+04
Kr-85m	5.2731E-08	6.4075E-18	4.5396E+07	1.5139E+05
Kr-85	2.7000E-09	6.8884E-15	4.8803E+10	7.7335E+03
Kr-87	1.0298E-07	3.6357E-18	2.5166E+07	2.9745E+05
Kr-88	1.4347E-07	1.1442E-17	7.8302E+07	4.1249E+05
Rb-86	4.9405E-11	6.0719E-19	4.2518E+06	1.4741E+02
Rb-88	2.6132E-08	2.1648E-19	1.4814E+06	6.7777E+04
I-131	2.1068E-08	1.6994E-16	7.8121E+08	6.2805E+04
I-132	3.0039E-08	2.9102E-18	1.3277E+07	8.9918E+04
I-133	4.3576E-08	3.8467E-17	1.7418E+08	1.2997E+05
I-134	4.6933E-08	1.7593E-18	7.9066E+06	1.4170E+05
I-135	4.0936E-08	1.1657E-17	5.1998E+07	1.2223E+05
Xe-133	3.3029E-07	1.7645E-15	7.9897E+09	9.4605E+05
Xe-133m	1.0129E-08	2.3007E-17	1.0417E+08	2.9014E+04
Xe-135	1.3957E-07	5.4652E-17	2.4379E+08	3.9939E+05
Xe-135m	6.1483E-08	6.7539E-19	3.0128E+06	1.8016E+05
Xe-138	2.3220E-07	2.4199E-18	1.0560E+07	6.9608E+05
Cs-134	4.9412E-09	3.8190E-15	1.7163E+10	1.4742E+04
Cs-136	1.5073E-09	2.0566E-17	9.1069E+07	4.4974E+03
Cs-137	3.8361E-09	4.4102E-14	1.9386E+11	1.1445E+04

CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
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Noble gases (atoms)	5.7311E+10	0.0000E+00	
Elemental I (atoms)	3.1155E+07	0.0000E+00	
Organic I (atoms)	1.9271E+06	0.0000E+00	
Aerosols (kg)	4.8160E-14	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.7558E-18
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.5227E-18
Total I (Ci)			1.8255E-07

	Deposition	Recirculating
Time (h) = 0.0833	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.5539E+04
Organic I (atoms)	0.0000E+00	3.4354E+03
Aerosols (kg)	0.0000E+00	8.8902E-17

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8556E+10
Elemental I (atoms)	1.5808E+08	1.7412E+06
Organic I (atoms)	9.7782E+06	1.0770E+05
Aerosols (kg)	2.4403E-13	2.7270E-15

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9984E+09
Elemental I (atoms)	0.0000E+00	2.9618E+07
Organic I (atoms)	0.0000E+00	1.8320E+06
Aerosols (kg)	0.0000E+00	4.5735E-14

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	2.4080E+08	0.0000E+00
Elemental I (atoms)	1.3309E+05	0.0000E+00
Organic I (atoms)	8.2322E+03	0.0000E+00
Aerosols (kg)	2.1306E-16	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.3333			
Delta dose (rem)	8.2934E-06	1.0929E-03	5.4499E-05
Accumulated dose (rem)	8.3468E-06	1.1003E-03	5.4867E-05

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.3333			
Delta dose (rem)	1.1290E-06	1.4878E-04	7.4192E-06
Accumulated dose (rem)	1.1363E-06	1.4979E-04	7.4693E-06

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.3333			
Delta dose (rem)	5.3297E-08	4.1394E-05	1.8084E-06
Accumulated dose (rem)	5.3372E-08	4.1462E-05	1.8113E-06

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	5.2176E-06	2.5703E-16	1.8649E+09	5.1156E+07
Kr-85m	1.2634E-05	1.5353E-15	1.0877E+10	1.2233E+08
Kr-85	6.7245E-07	1.7156E-12	1.2155E+13	6.4538E+06
Kr-87	2.2381E-05	7.9012E-16	5.4692E+09	2.2163E+08
Kr-88	3.3618E-05	2.6810E-15	1.8347E+10	3.2717E+08
Rb-86	7.0140E-09	8.6201E-17	6.0362E+08	7.5557E+04
Rb-88	7.7342E-06	6.4069E-17	4.3845E+08	6.4722E+07
I-131	3.0603E-06	2.4685E-14	1.1348E+11	3.2776E+07
I-132	4.1197E-06	3.9912E-16	1.8209E+09	4.4764E+07
I-133	6.2827E-06	5.5461E-15	2.5113E+10	6.7414E+07
I-134	5.5995E-06	2.0990E-16	9.4333E+08	6.3014E+07

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I-135	5.7975E-06	1.6508E-15	7.3641E+09	6.2484E+07
Xe-133	8.2219E-05	4.3925E-13	1.9889E+12	7.8921E+08
Xe-133m	2.5194E-06	5.7226E-15	2.5912E+10	2.4189E+07
Xe-135	3.5146E-05	1.3763E-14	6.1392E+10	3.3671E+08
Xe-135m	1.0973E-05	1.2054E-16	5.3770E+08	1.1454E+08
Xe-138	2.7808E-05	2.8981E-16	1.2647E+09	3.1850E+08
Cs-134	7.0175E-07	5.4238E-13	2.4375E+12	7.5588E+06
Cs-136	2.1396E-07	2.9193E-15	1.2927E+10	2.3049E+06
Cs-137	5.4482E-07	6.2636E-12	2.7533E+13	5.8684E+06

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump	
Noble gases (atoms)	1.4269E+13	0.0000E+00		
Elemental I (atoms)	7.6379E+09	0.0000E+00		
Organic I (atoms)	4.7245E+08	0.0000E+00		
Aerosols (kg)	6.8397E-12	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.9893E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.0664E-16	
Total I (Ci)			2.4860E-05	

		Deposition	Recirculating	
Time (h) =	0.3333	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	5.4066E+07		
Organic I (atoms)	0.0000E+00	3.3443E+06		
Aerosols (kg)	0.0000E+00	5.4634E-14		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway		
Time (h) =	0.3333	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	1.2245E+13		
Elemental I (atoms)	3.9733E+10	4.0149E+08		
Organic I (atoms)	2.4577E+09	2.4834E+07		
Aerosols (kg)	3.5631E-11	3.6017E-13		

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway		
Time (h) =	0.3333	Filtered	Transported	
Noble gases (atoms)	0.0000E+00	2.2676E+12		
Elemental I (atoms)	0.0000E+00	7.4324E+09		
Organic I (atoms)	0.0000E+00	4.5973E+08		
Aerosols (kg)	0.0000E+00	6.6650E-12		

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway		
Time (h) =	0.3333	Filtered	Transported	
Noble gases (atoms)	2.4124E+11	0.0000E+00		
Elemental I (atoms)	1.2945E+08	0.0000E+00		
Organic I (atoms)	8.0073E+06	0.0000E+00		
Aerosols (kg)	1.3081E-13	0.0000E+00		

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2302E-05	2.5863E-03	1.3076E-04
Accumulated dose (rem)		3.0649E-05	3.6866E-03	1.8562E-04

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0360E-06	3.5209E-04	1.7800E-05
Accumulated dose (rem)		4.1723E-06	5.0188E-04	2.5270E-05

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.8445E-07	1.8915E-04	8.2785E-06
Accumulated dose (rem)		3.3783E-07	2.3061E-04	1.0090E-05

CR Compartment Nuclide Inventory:

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Time (h) = 0.5000	Ci	kg	Atoms	Decay
Kr-83m	2.4359E-05	1.2000E-15	8.7065E+09	3.5503E+08
Kr-85m	6.1167E-05	7.4326E-15	5.2659E+10	8.7494E+08
Kr-85	3.3406E-06	8.5227E-12	6.0382E+13	4.7159E+07
Kr-87	1.0153E-04	3.5843E-15	2.4810E+10	1.5022E+09
Kr-88	1.6035E-04	1.2788E-14	8.7510E+10	2.3113E+09
Rb-86	2.2561E-08	2.7727E-16	1.9416E+09	4.0424E+05
Rb-88	4.2647E-05	3.5328E-16	2.4176E+09	5.2710E+08
I-131	1.0087E-05	8.1359E-14	3.7401E+11	1.7818E+08
I-132	1.3058E-05	1.2650E-15	5.7714E+09	2.3618E+08
I-133	2.0605E-05	1.8189E-14	8.2359E+10	3.6506E+08
I-134	1.6186E-05	6.0675E-16	2.7268E+09	3.0935E+08
I-135	1.8788E-05	5.3499E-15	2.3865E+10	3.3521E+08
Xe-133	4.0827E-04	2.1812E-12	9.8761E+12	5.7649E+09
Xe-133m	1.2502E-05	2.8397E-14	1.2858E+11	1.7660E+08
Xe-135	1.7513E-04	6.8578E-14	3.0592E+11	2.4694E+09
Xe-135m	4.2664E-05	4.6866E-16	2.0906E+09	6.9067E+08
Xe-138	8.4780E-05	8.8356E-16	3.8557E+09	1.5711E+09
Cs-134	2.2578E-06	1.7450E-12	7.8423E+12	4.0449E+07
Cs-136	6.8812E-07	9.3889E-15	4.1574E+10	1.2331E+07
Cs-137	1.7529E-06	2.0152E-11	8.8582E+13	3.1403E+07

CR Transport Group Inventory:

Time (h) = 0.5000	Atmosphere	Sump
Noble gases (atoms)	7.0872E+13	0.0000E+00
Elemental I (atoms)	3.5605E+10	0.0000E+00
Organic I (atoms)	2.3308E+09	0.0000E+00
Aerosols (kg)	2.2005E-11	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3119E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.6595E-15
Total I (Ci)		7.8723E-05

Time (h) = 0.5000	Deposition Surfaces	Recirculating Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	3.9406E+08
Organic I (atoms)	0.0000E+00	2.4856E+07
Aerosols (kg)	0.0000E+00	2.9998E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Time (h) = 0.5000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1332E+13
Elemental I (atoms)	1.8781E+11	1.8972E+09
Organic I (atoms)	1.2277E+10	1.2402E+08
Aerosols (kg)	1.1678E-10	1.1798E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Time (h) = 0.5000	Pathway Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1358E+13
Elemental I (atoms)	0.0000E+00	3.5131E+10
Organic I (atoms)	0.0000E+00	2.2965E+09
Aerosols (kg)	0.0000E+00	2.1844E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

Time (h) = 0.5000	Pathway Filtered	Transported
Noble gases (atoms)	1.8033E+12	0.0000E+00
Elemental I (atoms)	9.4349E+08	0.0000E+00
Organic I (atoms)	5.9514E+07	0.0000E+00
Aerosols (kg)	7.1823E-13	0.0000E+00

EAB Doses:

Time (h) = 2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1839E-03	3.4849E-02	6.6182E-03
Accumulated dose (rem)	5.2145E-03	3.8535E-02	6.8038E-03

LPZ Doses:

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Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.0570E-04	4.7441E-03	9.0096E-04
Accumulated dose (rem)		7.0987E-04	5.2460E-03	9.2623E-04

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.4137E-04	1.1666E-02	9.3229E-04
Accumulated dose (rem)		3.4171E-04	1.1897E-02	9.4238E-04

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m		8.3671E-03	4.1219E-13	2.9907E+12	4.9738E+11
Kr-85m		2.9135E-02	3.5403E-12	2.5083E+13	1.6165E+12
Kr-85		2.0069E-03	5.1201E-09	3.6275E+16	1.0624E+11
Kr-87		2.6927E-02	9.5062E-13	6.5802E+12	1.6944E+12
Kr-88		6.6797E-02	5.3270E-12	3.6455E+13	3.8109E+12
Rb-86		8.0886E-08	9.9409E-16	6.9611E+09	1.2614E+07
Rb-88		4.1415E-02	3.4308E-13	2.3478E+12	1.4387E+12
Sr-89		2.4994E-06	8.6030E-14	5.8212E+11	2.2409E+08
Sr-90		2.6768E-07	1.9623E-12	1.3131E+13	2.3993E+07
Sr-91		2.6654E-06	7.3528E-16	4.8659E+09	2.4651E+08
Sr-92		1.9146E-06	1.5232E-16	9.9705E+08	1.9193E+08
Y-90		5.3404E-09	9.8157E-18	6.5679E+07	4.0419E+05
Y-91		3.1843E-08	1.2984E-15	8.5927E+09	2.8404E+06
Y-92		3.7761E-07	3.9243E-17	2.5688E+08	2.5677E+07
Y-93		3.0500E-08	9.1418E-18	5.9197E+07	2.8156E+06
Zr-95		3.6991E-08	1.7219E-15	1.0915E+10	3.3163E+06
Zr-97		3.2902E-08	1.7211E-17	1.0685E+08	3.0014E+06
Nb-95		3.6515E-08	9.3381E-16	5.9195E+09	3.2729E+06
Mo-99		4.5763E-07	9.5417E-16	5.8042E+09	4.1204E+07
Tc-99m		4.1112E-07	7.8185E-17	4.7560E+08	3.6671E+07
Ru-103		4.0401E-07	1.2518E-14	7.3191E+10	3.6225E+07
Ru-105		2.1093E-07	3.1379E-17	1.7997E+08	2.0229E+07
Ru-106		1.6818E-07	5.0270E-14	2.8560E+11	1.5076E+07
Rh-105		2.6743E-07	3.1683E-16	1.8172E+09	2.3986E+07
Sb-127		4.5860E-07	1.7173E-15	8.1429E+09	4.1238E+07
Sb-129		1.0436E-06	1.8557E-16	8.6632E+08	1.0027E+08
Te-127		4.5964E-07	1.7417E-16	8.2586E+08	4.1066E+07
Te-127m		7.8742E-08	8.3479E-15	3.9584E+10	7.0580E+06
Te-129		1.1800E-06	5.6347E-17	2.6304E+08	1.0693E+08
Te-129m		2.5824E-07	8.5723E-15	4.0018E+10	2.3147E+07
Te-131m		9.3416E-07	1.1715E-15	5.3854E+09	8.4564E+07
Te-132		6.8960E-06	2.2714E-14	1.0363E+11	6.2046E+08
I-131		8.6520E-05	6.9789E-13	3.2082E+12	9.2843E+09
I-132		8.9633E-05	8.6836E-15	3.9616E+10	1.0354E+10
I-133		1.6897E-04	1.4916E-13	6.7538E+11	1.8440E+10
I-134		4.2620E-05	1.5977E-15	7.1801E+09	7.5127E+09
I-135		1.3839E-04	3.9408E-14	1.7579E+11	1.5733E+10
Xe-133		2.4383E-01	1.3027E-09	5.8984E+15	1.2924E+13
Xe-133m		7.4025E-03	1.6814E-11	7.6133E+13	3.9311E+11
Xe-135		1.0061E-01	3.9397E-11	1.7574E+14	5.3983E+12
Xe-135m		1.5659E-03	1.7201E-14	7.6731E+10	1.6936E+11
Xe-138		6.2957E-04	6.5613E-15	2.8633E+10	1.1598E+11
Cs-134		8.1131E-06	6.2706E-12	2.8181E+13	1.2639E+09
Cs-136		2.4647E-06	3.3629E-14	1.4891E+11	3.8452E+08
Cs-137		6.2991E-06	7.2419E-11	3.1833E+14	9.8128E+08
Ba-139		1.3835E-06	8.4579E-17	3.6644E+08	1.5543E+08
Ba-140		3.6639E-06	5.0048E-14	2.1528E+11	3.2874E+08
La-140		9.2980E-08	1.6728E-16	7.1957E+08	6.7199E+06
La-141		2.4281E-08	4.2934E-18	1.8337E+07	2.3495E+06
La-142		1.3792E-08	9.6346E-19	4.0860E+06	1.5112E+06
Ce-141		8.6866E-08	3.0486E-15	1.3021E+10	7.7876E+06
Ce-143		8.1255E-08	1.2236E-16	5.1528E+08	7.3489E+06
Ce-144		6.9633E-08	2.1832E-14	9.1303E+10	6.2419E+06
Pr-143		3.3263E-08	4.9397E-16	2.0803E+09	2.9786E+06
Nd-147		1.3458E-08	1.6636E-16	6.8153E+08	1.2077E+06
Np-239		9.6705E-07	4.1685E-15	1.0503E+10	8.7137E+07
Pu-238		2.1640E-10	1.2641E-14	3.1984E+10	1.9397E+04
Pu-239		2.1828E-11	3.5118E-13	8.8487E+11	1.9564E+03
Pu-240		3.8552E-11	1.6926E-14	4.2472E+10	3.4556E+03
Pu-241		8.5649E-09	8.6608E-14	2.1642E+11	7.6772E+05
Am-241		4.8465E-12	1.4147E-15	3.5351E+09	4.3437E+02

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Cm-242	1.3306E-09	4.0198E-16	1.0003E+09	1.1928E+05
Cm-244	8.8013E-11	1.0753E-15	2.6539E+09	7.8891E+03

CR Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	4.2496E+16	0.0000E+00	
Elemental I (atoms)	1.7237E+12	0.0000E+00	
Organic I (atoms)	5.8221E+11	0.0000E+00	
Aerosols (kg)	8.2171E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.1051E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3640E-14	
Total I (Ci)		5.2614E-04	

	Deposition	Recirculating
Time (h) =	2.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0304E+11
Organic I (atoms)	0.0000E+00	2.4576E+10
Aerosols (kg)	0.0000E+00	9.7671E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	2.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.9016E+16
Elemental I (atoms)	1.0612E+13 1.0719E+11
Organic I (atoms)	3.3995E+12 3.4338E+10
Aerosols (kg)	5.8322E-10 5.8914E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway
Time (h) =	2.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 7.2252E+15
Elemental I (atoms)	0.0000E+00 1.9850E+12
Organic I (atoms)	0.0000E+00 6.3589E+11
Aerosols (kg)	0.0000E+00 1.0909E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway
Time (h) =	2.0000
	Filtered Transported
Noble gases (atoms)	3.7194E+15 0.0000E+00
Elemental I (atoms)	2.4671E+11 0.0000E+00
Organic I (atoms)	5.8844E+10 0.0000E+00
Aerosols (kg)	2.3386E-11 0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2639E-03	1.0163E-02	3.6735E-03
Accumulated dose (rem)		8.4784E-03	4.8698E-02	1.0477E-02

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4433E-04	1.3836E-03	5.0009E-04
Accumulated dose (rem)		1.1542E-03	6.6295E-03	1.4263E-03

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.6854E-04	4.0764E-03	5.4283E-04
Accumulated dose (rem)		6.1025E-04	1.5973E-02	1.4852E-03

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		1.1035E-02	5.4364E-13	3.9444E+12	8.3994E+11
Kr-85m		4.0578E-02	4.9308E-12	3.4934E+13	2.8435E+12
Kr-85		2.9054E-03	7.4123E-09	5.2515E+16	1.9248E+11
Kr-87		3.4016E-02	1.2009E-12	8.3125E+12	2.7727E+12
Kr-88		9.0977E-02	7.2554E-12	4.9651E+13	6.5915E+12
Rb-86		8.0543E-08	9.8987E-16	6.9315E+09	1.5309E+07

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Rb-88	6.2746E-02	5.1978E-13	3.5570E+12	2.8693E+12
Sr-89	2.6484E-06	9.1159E-14	6.1682E+11	3.1122E+08
Sr-90	2.8368E-07	2.0796E-12	1.3915E+13	3.3326E+07
Sr-91	2.7736E-06	7.6514E-16	5.0635E+09	3.3859E+08
Sr-92	1.9033E-06	1.5142E-16	9.9119E+08	2.5658E+08
Y-90	6.1772E-09	1.1354E-17	7.5971E+07	5.9272E+05
Y-91	3.3840E-08	1.3799E-15	9.1316E+09	3.9509E+06
Y-92	4.4514E-07	4.6262E-17	3.0282E+08	3.8806E+07
Y-93	3.1773E-08	9.5234E-18	6.1668E+07	3.8698E+06
Zr-95	3.9197E-08	1.8246E-15	1.1566E+10	4.6059E+06
Zr-97	3.4513E-08	1.8054E-17	1.1208E+08	4.1426E+06
Nb-95	3.8698E-08	9.8963E-16	6.2733E+09	4.5460E+06
Mo-99	4.8371E-07	1.0085E-15	6.1350E+09	5.7139E+07
Tc-99m	4.3548E-07	8.2819E-17	5.0379E+08	5.0929E+07
Ru-103	4.2808E-07	1.3264E-14	7.7552E+10	5.0310E+07
Ru-105	2.1498E-07	3.1981E-17	1.8343E+08	2.7440E+07
Ru-106	1.7823E-07	5.3274E-14	3.0266E+11	2.0939E+07
Rh-105	2.8310E-07	3.3540E-16	1.9236E+09	3.3298E+07
Sb-127	4.8510E-07	1.8165E-15	8.6135E+09	5.7212E+07
Sb-129	1.0624E-06	1.8893E-16	8.8200E+08	1.3593E+08
Te-127	4.8701E-07	1.8454E-16	8.7504E+08	5.7037E+07
Te-127m	8.3449E-08	8.8469E-15	4.1950E+10	9.8033E+06
Te-129	1.2213E-06	5.8316E-17	2.7224E+08	1.4669E+08
Te-129m	2.7367E-07	9.0844E-15	4.2409E+10	3.2151E+07
Te-131m	9.8429E-07	1.2344E-15	5.6744E+09	1.1704E+08
Te-132	7.2919E-06	2.4019E-14	1.0958E+11	8.6062E+08
I-131	9.7855E-05	7.8932E-13	3.6285E+12	1.2420E+10
I-132	9.7457E-05	9.4415E-15	4.3074E+10	1.3552E+10
I-133	1.8968E-04	1.6744E-13	7.5816E+11	2.4541E+10
I-134	3.9592E-05	1.4841E-15	6.6699E+09	8.9127E+09
I-135	1.5260E-04	4.3454E-14	1.9384E+11	2.0685E+10
Xe-133	3.5260E-01	1.8837E-09	8.5294E+15	2.3397E+13
Xe-133m	1.0687E-02	2.4275E-11	1.0991E+14	7.1078E+11
Xe-135	1.4381E-01	5.6314E-11	2.5121E+14	9.6973E+12
Xe-135m	1.4016E-03	1.5396E-14	6.8680E+10	2.2379E+11
Xe-138	4.3826E-04	4.5674E-15	1.9932E+10	1.3484E+11
Cs-134	8.0817E-06	6.2463E-12	2.8072E+13	1.5342E+09
Cs-136	2.4538E-06	3.3481E-14	1.4825E+11	4.6663E+08
Cs-137	6.2748E-06	7.2139E-11	3.1710E+14	1.1912E+09
Ba-139	1.2929E-06	7.9045E-17	3.4246E+08	2.0074E+08
Ba-140	3.8807E-06	5.3009E-14	2.2802E+11	4.5644E+08
La-140	1.0971E-07	1.9739E-16	8.4907E+08	1.0011E+07
La-141	2.4622E-08	4.3538E-18	1.8595E+07	3.1776E+06
La-142	1.3062E-08	9.1249E-19	3.8698E+06	1.9658E+06
Ce-141	9.2046E-08	3.2304E-15	1.3797E+10	1.0816E+07
Ce-143	8.5660E-08	1.2899E-16	5.4321E+08	1.0174E+07
Ce-144	7.3793E-08	2.3136E-14	9.6757E+10	8.6696E+06
Pr-143	3.5270E-08	5.2377E-16	2.2057E+09	4.1383E+06
Nd-147	1.4253E-08	1.7619E-16	7.2179E+08	1.6768E+06
Np-239	1.0217E-06	4.4041E-15	1.1097E+10	1.2080E+08
Pu-238	2.2934E-10	1.3396E-14	3.3896E+10	2.6942E+04
Pu-239	2.3134E-11	3.7218E-13	9.3780E+11	2.7175E+03
Pu-240	4.0856E-11	1.7938E-14	4.5010E+10	4.7997E+03
Pu-241	9.0768E-09	9.1785E-14	2.2935E+11	1.0663E+06
Am-241	5.1365E-12	1.4993E-15	3.7466E+09	6.0334E+02
Cm-242	1.4101E-09	4.2599E-16	1.0601E+09	1.6567E+05
Cm-244	9.3274E-11	1.1395E-15	2.8125E+09	1.0958E+04

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	6.1502E+16	0.0000E+00	
Elemental I (atoms)	2.0400E+12	0.0000E+00	
Organic I (atoms)	7.8984E+11	0.0000E+00	
Aerosols (kg)	8.2205E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.2464E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.5334E-14	
Total I (Ci)		5.7719E-04	

	Deposition	Recirculating
Time (h) =	2.2500	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5247E+11
Organic I (atoms)	0.0000E+00	4.2482E+10
Aerosols (kg)	0.0000E+00	1.1936E-11

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CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7800E+16
Elemental I (atoms)	1.3108E+13	1.3240E+11
Organic I (atoms)	4.7759E+12	4.8242E+10
Aerosols (kg)	6.1974E-10	6.2603E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0704E+16
Elemental I (atoms)	0.0000E+00	2.4519E+12
Organic I (atoms)	0.0000E+00	8.9336E+11
Aerosols (kg)	0.0000E+00	1.1593E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.2500	
	Filtered	Transported
Noble gases (atoms)	6.9565E+15	0.0000E+00
Elemental I (atoms)	3.6506E+11	0.0000E+00
Organic I (atoms)	1.0171E+11	0.0000E+00
Aerosols (kg)	2.8578E-11	0.0000E+00

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.4573E-03	6.4926E-03	2.7124E-03
Accumulated dose (rem)		1.0936E-02	5.5191E-02	1.3190E-02

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.3452E-04	8.8387E-04	3.6925E-04
Accumulated dose (rem)		1.4887E-03	7.5134E-03	1.7956E-03

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0691E-04	2.6841E-03	4.0464E-04
Accumulated dose (rem)		8.1717E-04	1.8657E-02	1.8899E-03

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m		1.2991E-02	6.3998E-13	4.6435E+12	1.0944E+12
Kr-85m		4.9357E-02	5.9976E-12	4.2492E+13	3.7947E+12
Kr-85		3.6169E-03	9.2276E-09	6.5376E+16	2.6139E+11
Kr-87		3.9022E-02	1.3776E-12	9.5359E+12	3.5468E+12
Kr-88		1.0919E-01	8.7076E-12	5.9589E+13	8.7097E+12
Rb-86		7.8584E-08	9.6580E-16	6.7630E+09	1.6889E+07
Rb-88		7.7085E-02	6.3856E-13	4.3699E+12	4.0510E+12
Sr-89		2.6345E-06	9.0680E-14	6.1358E+11	3.6402E+08
Sr-90		2.8221E-07	2.0689E-12	1.3844E+13	3.8982E+07
Sr-91		2.7293E-06	7.5290E-16	4.9825E+09	3.9359E+08
Sr-92		1.8222E-06	1.4497E-16	9.4896E+08	2.9382E+08
Y-90		6.5151E-09	1.1975E-17	8.0127E+07	7.1654E+05
Y-91		3.3732E-08	1.3755E-15	9.1025E+09	4.6257E+06
Y-92		4.7429E-07	4.9290E-17	3.2264E+08	4.7630E+07
Y-93		3.1285E-08	9.3772E-18	6.0722E+07	4.5001E+06
Zr-95		3.8992E-08	1.8150E-15	1.1506E+10	5.3874E+06
Zr-97		3.4124E-08	1.7850E-17	1.1082E+08	4.8287E+06
Nb-95		3.8498E-08	9.8452E-16	6.2410E+09	5.3175E+06
Mo-99		4.8046E-07	1.0018E-15	6.0937E+09	6.6776E+07
Tc-99m		4.3310E-07	8.2365E-17	5.0103E+08	5.9570E+07
Ru-103		4.2583E-07	1.3194E-14	7.7143E+10	5.8845E+07
Ru-105		2.0892E-07	3.1080E-17	1.7826E+08	3.1677E+07
Ru-106		1.7731E-07	5.2998E-14	3.0109E+11	2.4493E+07
Rh-105		2.8143E-07	3.3343E-16	1.9123E+09	3.8937E+07
Sb-127		4.8205E-07	1.8051E-15	8.5594E+09	6.6879E+07

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Sb-129	1.0318E-06	1.8349E-16	8.5658E+08	1.5686E+08
Te-127	4.8443E-07	1.8356E-16	8.7040E+08	6.6717E+07
Te-127m	8.3018E-08	8.8012E-15	4.1734E+10	1.1467E+07
Te-129	1.1970E-06	5.7158E-17	2.6683E+08	1.7037E+08
Te-129m	2.7225E-07	9.0374E-15	4.2189E+10	3.7607E+07
Te-131m	9.7582E-07	1.2237E-15	5.6256E+09	1.3663E+08
Te-132	7.2447E-06	2.3863E-14	1.0887E+11	1.0059E+09
I-131	1.0501E-04	8.4701E-13	3.8937E+12	1.4486E+10
I-132	1.0202E-04	9.8832E-15	4.5089E+10	1.5592E+10
I-133	2.0263E-04	1.7887E-13	8.0993E+11	2.8537E+10
I-134	3.7753E-05	1.4152E-15	6.3601E+09	9.7009E+09
I-135	1.6128E-04	4.5925E-14	2.0486E+11	2.3882E+10
Xe-133	4.3866E-01	2.3435E-09	1.0611E+16	3.1757E+13
Xe-133m	1.3283E-02	3.0171E-11	1.3661E+14	9.6407E+11
Xe-135	1.7769E-01	6.9580E-11	3.1039E+14	1.3099E+13
Xe-135m	1.3167E-03	1.4464E-14	6.4520E+10	2.5366E+11
Xe-138	3.5162E-04	3.6645E-15	1.5991E+10	1.4322E+11
Cs-134	7.8870E-06	6.0958E-12	2.7395E+13	1.6929E+09
Cs-136	2.3939E-06	3.2663E-14	1.4463E+11	5.1479E+08
Cs-137	6.1236E-06	7.0401E-11	3.0946E+14	1.3143E+09
Ba-139	1.1928E-06	7.2923E-17	3.1594E+08	2.2557E+08
Ba-140	3.8594E-06	5.2717E-14	2.2677E+11	5.3381E+08
La-140	1.1713E-07	2.1073E-16	9.0644E+08	1.2213E+07
La-141	2.3855E-08	4.2182E-18	1.8016E+07	3.6621E+06
La-142	1.2147E-08	8.4858E-19	3.5988E+06	2.2177E+06
Ce-141	9.1563E-08	3.2135E-15	1.3725E+10	1.2651E+07
Ce-143	8.4950E-08	1.2792E-16	5.3871E+08	1.1880E+07
Ce-144	7.3411E-08	2.3017E-14	9.6256E+10	1.0141E+07
Pr-143	3.5101E-08	5.2126E-16	2.1952E+09	4.8415E+06
Nd-147	1.4174E-08	1.7521E-16	7.1778E+08	1.9609E+06
Np-239	1.0146E-06	4.3733E-15	1.1020E+10	1.4115E+08
Pu-238	2.2815E-10	1.3327E-14	3.3721E+10	3.1515E+04
Pu-239	2.3015E-11	3.7027E-13	9.3298E+11	3.1787E+03
Pu-240	4.0645E-11	1.7845E-14	4.4778E+10	5.6143E+03
Pu-241	9.0299E-09	9.1311E-14	2.2817E+11	1.2473E+06
Am-241	5.1102E-12	1.4917E-15	3.7274E+09	7.0576E+02
Cm-242	1.4028E-09	4.2378E-16	1.0546E+09	1.9379E+05
Cm-244	9.2792E-11	1.1337E-15	2.7980E+09	1.2817E+04

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	7.6551E+16	0.0000E+00	
Elemental I (atoms)	2.2535E+12	0.0000E+00	
Organic I (atoms)	9.4915E+11	0.0000E+00	
Aerosols (kg)	8.0411E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3352E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.6397E-14	
Total I (Ci)		6.0869E-04	

Deposition Recirculating

Time (h) =	2.4000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.8636E+11	
Organic I (atoms)	0.0000E+00	5.6182E+10	
Aerosols (kg)	0.0000E+00	1.3220E-11	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.2705E+16
Elemental I (atoms)	1.4801E+13	1.4951E+11
Organic I (atoms)	5.8312E+12	5.8901E+10
Aerosols (kg)	6.3207E-10	6.3848E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.3464E+16
Elemental I (atoms)	0.0000E+00	2.7687E+12
Organic I (atoms)	0.0000E+00	1.0908E+12
Aerosols (kg)	0.0000E+00	1.1823E-10

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CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.4000	Filtered Transported
Noble gases (atoms)	9.5567E+15	0.0000E+00
Elemental I (atoms)	4.4620E+11	0.0000E+00
Organic I (atoms)	1.3452E+11	0.0000E+00
Aerosols (kg)	3.1654E-11	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8690E-02	1.0561E-01	5.2780E-02
Accumulated dose (rem)		5.9626E-02	1.6080E-01	6.5969E-02

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.6284E-03	1.4377E-02	7.1851E-03
Accumulated dose (rem)		8.1172E-03	2.1891E-02	8.9807E-03

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.6872E-03	4.3682E-02	1.0164E-02
Accumulated dose (rem)		6.5044E-03	6.2339E-02	1.2054E-02

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		4.0116E-02	1.9762E-12	1.4339E+13	6.9808E+12
Kr-85m		2.1600E-01	2.6247E-11	1.8596E+14	3.1346E+13
Kr-85		2.0275E-02	5.1727E-08	3.6648E+17	2.6154E+12
Kr-87		9.1448E-02	3.2285E-12	2.2347E+13	1.8637E+13
Kr-88		4.1418E-01	3.3031E-11	2.2604E+14	6.4601E+13
Rb-86		4.6873E-08	5.7607E-16	4.0339E+09	2.9887E+07
Rb-88		3.5364E-01	2.9295E-12	2.0047E+13	3.9615E+13
Sr-89		1.6301E-06	5.6111E-14	3.7967E+11	8.1046E+08
Sr-90		1.7479E-07	1.2814E-12	8.5739E+12	8.6826E+07
Sr-91		1.5041E-06	4.1493E-16	2.7459E+09	8.3243E+08
Sr-92		7.4955E-07	5.9633E-17	3.9035E+08	5.5165E+08
Y-90		6.8717E-09	1.2630E-17	8.4513E+07	2.1471E+06
Y-91		2.1384E-08	8.7197E-16	5.7705E+09	1.0402E+07
Y-92		4.5438E-07	4.7221E-17	3.0910E+08	1.4886E+08
Y-93		1.7362E-08	5.2038E-18	3.3697E+07	9.5462E+06
Zr-95		2.4132E-08	1.1233E-15	7.1208E+09	1.1996E+07
Zr-97		1.9792E-08	1.0353E-17	6.4278E+07	1.0443E+07
Nb-95		2.3844E-08	6.0976E-16	3.8653E+09	1.1844E+07
Mo-99		2.9261E-07	6.1010E-16	3.7112E+09	1.4761E+08
Tc-99m		2.6704E-07	5.0784E-17	3.0892E+08	1.3245E+08
Ru-103		2.6342E-07	8.1621E-15	4.7722E+10	1.3100E+08
Ru-105		1.0079E-07	1.4995E-17	8.5999E+07	6.3344E+07
Ru-106		1.0980E-07	3.2820E-14	1.8646E+11	5.4551E+07
Rh-105		1.7246E-07	2.0432E-16	1.1718E+09	8.6406E+07
Sb-127		2.9499E-07	1.1046E-15	5.2380E+09	1.4815E+08
Sb-129		4.9436E-07	8.7912E-17	4.1040E+08	3.1279E+08
Te-127		2.9944E-07	1.1346E-16	5.3803E+08	1.4848E+08
Te-127m		5.1418E-08	5.4511E-15	2.5848E+10	2.5541E+07
Te-129		6.2420E-07	2.9806E-17	1.3914E+08	3.5400E+08
Te-129m		1.6856E-07	5.5952E-15	2.6120E+10	8.3755E+07
Te-131m		5.8243E-07	7.3041E-16	3.3577E+09	2.9929E+08
Te-132		4.4238E-06	1.4571E-14	6.6478E+10	2.2262E+09
I-131		2.2311E-04	1.7996E-12	8.2730E+12	4.8790E+10
I-132		1.5454E-04	1.4971E-14	6.8302E+10	4.3638E+10
I-133		4.1042E-04	3.6230E-13	1.6405E+12	9.2979E+10
I-134		2.2763E-05	8.5328E-16	3.8347E+09	1.6184E+10
I-135		2.9134E-04	8.2959E-14	3.7007E+11	7.2024E+10
Xe-133		2.4403E+00	1.3037E-08	5.9031E+16	3.1591E+14
Xe-133m		7.3087E-02	1.6601E-10	7.5169E+14	9.5102E+12
Xe-135		9.0509E-01	3.5442E-10	1.5810E+15	1.2232E+14
Xe-135m		3.2016E-04	3.5170E-15	1.5689E+10	4.2793E+11
Xe-138		1.8179E-05	1.8945E-16	8.2675E+08	1.7095E+11
Cs-134		4.7157E-06	3.6448E-12	1.6380E+13	2.9988E+09
Cs-136		1.4264E-06	1.9462E-14	8.6180E+10	9.1056E+08

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Cs-137	3.6616E-06	4.2096E-11	1.8504E+14	2.3284E+09
Ba-139	3.3042E-07	2.0200E-17	8.7517E+07	3.6910E+08
Ba-140	2.3816E-06	3.2532E-14	1.3994E+11	1.1870E+09
La-140	1.3333E-07	2.3987E-16	1.0318E+09	3.9067E+07
La-141	1.1142E-08	1.9702E-18	8.4146E+06	7.2272E+06
La-142	3.6644E-09	2.5598E-19	1.0856E+06	3.7298E+06
Ce-141	5.6648E-08	1.9881E-15	8.4912E+09	2.8167E+07
Ce-143	5.0874E-08	7.6609E-17	3.2262E+08	2.6062E+07
Ce-144	4.5459E-08	1.4253E-14	5.9606E+10	2.2586E+07
Pr-143	2.1838E-08	3.2430E-16	1.3657E+09	1.0803E+07
Nd-147	8.7419E-09	1.0806E-16	4.4269E+08	4.3593E+06
Np-239	6.1616E-07	2.6560E-15	6.6923E+09	3.1162E+08
Pu-238	1.4131E-10	8.2540E-15	2.0885E+10	7.0195E+04
Pu-239	1.4257E-11	2.2938E-13	5.7797E+11	7.0809E+03
Pu-240	2.5173E-11	1.1052E-14	2.7733E+10	1.2505E+04
Pu-241	5.5926E-09	5.6553E-14	1.4131E+11	2.7782E+06
Am-241	3.1666E-12	9.2433E-16	2.3097E+09	1.5723E+03
Cm-242	8.6857E-10	2.6239E-16	6.5295E+08	4.3158E+05
Cm-244	5.7470E-11	7.0212E-16	1.7329E+09	2.8549E+04

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump	
Noble gases (atoms)	4.2829E+17	0.0000E+00		
Elemental I (atoms)	5.0407E+12	0.0000E+00		
Organic I (atoms)	4.2841E+12	0.0000E+00		
Aerosols (kg)	5.0685E-11	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.7881E-14		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.3647E-14		
Total I (Ci)		1.1022E-03		

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.9377E+11
Organic I (atoms)	0.0000E+00	4.5570E+11
Aerosols (kg)	0.0000E+00	2.4098E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.4554E+17
Elemental I (atoms)	3.9844E+13	4.0247E+11
Organic I (atoms)	2.9923E+13	3.0226E+11
Aerosols (kg)	6.5355E-10	6.6018E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.2508E+16
Elemental I (atoms)	0.0000E+00	7.4531E+12
Organic I (atoms)	0.0000E+00	5.5973E+12
Aerosols (kg)	0.0000E+00	1.2225E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	9.9208E+16	0.0000E+00
Elemental I (atoms)	1.9005E+12	0.0000E+00
Organic I (atoms)	1.0911E+12	0.0000E+00
Aerosols (kg)	5.7699E-11	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2830E-01	5.7597E-01	2.4950E-01
Accumulated dose (rem)		2.8793E-01	7.3678E-01	3.1547E-01

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1080E-02	7.8410E-02	3.3966E-02

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Accumulated dose (rem) 3.9197E-02 1.0030E-01 4.2947E-02

CR Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0384E-02	3.1027E-01	8.8125E-02	
Accumulated dose (rem)	5.6889E-02	3.7260E-01	1.0018E-01	

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m	5.8088E-02	2.8616E-12	2.0762E+13	3.7938E+13	
Kr-85m	7.4786E-01	9.0876E-11	6.4384E+14	3.0216E+14	
Kr-85	1.3035E-01	3.3256E-07	2.3561E+18	3.9746E+13	
Kr-87	6.6440E-02	2.3456E-12	1.6236E+13	6.8763E+13	
Kr-88	1.0031E+00	7.9998E-11	5.4745E+14	4.8722E+14	
Rb-86	1.3471E-08	1.6555E-16	1.1593E+09	4.3686E+07	
Rb-88	9.9676E-01	8.2570E-12	5.6506E+13	3.7417E+14	
Sr-89	5.1759E-07	1.7816E-14	1.2055E+11	1.3069E+09	
Sr-90	5.5623E-08	4.0777E-13	2.7285E+12	1.4011E+08	
Sr-91	3.5750E-07	9.8622E-17	6.5265E+08	1.2411E+09	
Sr-92	8.5749E-08	6.8220E-18	4.4656E+07	7.0859E+08	
Y-90	4.3676E-09	8.0277E-18	5.3716E+07	5.0722E+06	
Y-91	7.1174E-09	2.9022E-16	1.9206E+09	1.7047E+07	
Y-92	1.3887E-07	1.4432E-17	9.4471E+07	2.9256E+08	
Y-93	4.1987E-09	1.2585E-18	8.1493E+06	1.4295E+07	
Zr-95	7.6659E-09	3.5684E-16	2.2620E+09	1.9347E+07	
Zr-97	5.3456E-09	2.7963E-18	1.7360E+07	1.6094E+07	
Nb-95	7.5879E-09	1.9405E-16	1.2301E+09	1.9112E+07	
Mo-99	8.9289E-08	1.8617E-16	1.1325E+09	2.3530E+08	
Tc-99m	8.3357E-08	1.5853E-17	9.6431E+07	2.1284E+08	
Ru-103	8.3585E-08	2.5899E-15	1.5142E+10	2.1120E+08	
Ru-105	1.7179E-08	2.5556E-18	1.4657E+07	8.7554E+07	
Ru-106	3.4932E-08	1.0441E-14	5.9319E+10	8.8018E+07	
Rh-105	5.2537E-08	6.2243E-17	3.5699E+08	1.3812E+08	
Sb-127	9.1102E-08	3.4114E-16	1.6176E+09	2.3699E+08	
Sb-129	8.2807E-08	1.4725E-17	6.8743E+07	4.3079E+08	
Te-127	9.4489E-08	3.5803E-17	1.6977E+08	2.3915E+08	
Te-127m	1.6363E-08	1.7348E-15	8.2260E+09	4.1215E+07	
Te-129	1.2496E-07	5.9670E-18	2.7856E+07	5.0912E+08	
Te-129m	5.3545E-08	1.7774E-15	8.2975E+09	1.3510E+08	
Te-131m	1.6899E-07	2.1192E-16	9.7423E+08	4.7037E+08	
Te-132	1.3588E-06	4.4756E-15	2.0419E+10	3.5555E+09	
I-131	7.2870E-04	5.8778E-12	2.7021E+13	2.9893E+11	
I-132	1.7466E-04	1.6920E-14	7.7195E+10	1.4098E+11	
I-133	1.1899E-03	1.0504E-12	4.7562E+12	5.2206E+11	
I-134	3.1907E-06	1.1961E-16	5.3752E+08	2.2041E+10	
I-135	6.3448E-04	1.8067E-13	8.0593E+11	3.3069E+11	
Xe-133	1.5368E+01	8.2100E-08	3.7174E+17	4.7270E+15	
Xe-133m	4.4686E-01	1.0150E-09	4.5959E+15	1.3920E+14	
Xe-135	4.3708E+00	1.7115E-09	7.6349E+15	1.5119E+15	
Xe-135m	2.3730E-04	2.6067E-15	1.1628E+10	5.5186E+11	
Xe-138	9.5471E-10	9.9498E-21	4.3420E+04	1.7207E+11	
Cs-134	1.3634E-06	1.0538E-12	4.7359E+12	4.3904E+09	
Cs-136	4.0885E-07	5.5785E-15	2.4702E+10	1.3300E+09	
Cs-137	1.0588E-06	1.2173E-11	5.3508E+13	3.4089E+09	
Ba-139	1.4067E-08	8.6001E-19	3.7260E+06	4.2056E+08	
Ba-140	7.5108E-07	1.0259E-14	4.4131E+10	1.9104E+09	
La-140	8.8047E-08	1.5841E-16	6.8139E+08	9.7186E+07	
La-141	1.7511E-09	3.0964E-19	1.3225E+06	9.8274E+06	
La-142	1.9306E-10	1.3487E-20	5.7196E+04	4.3351E+06	
Ce-141	1.7974E-08	6.3080E-16	2.6942E+09	4.5414E+07	
Ce-143	1.4885E-08	2.2415E-17	9.4396E+07	4.1055E+07	
Ce-144	1.4461E-08	4.5340E-15	1.8961E+10	3.6441E+07	
Pr-143	7.0191E-09	1.0424E-16	4.3897E+08	1.7487E+07	
Nd-147	2.7529E-09	3.4029E-17	1.3941E+08	7.0128E+06	
Np-239	1.8670E-07	8.0476E-16	2.0278E+09	4.9577E+08	
Pu-238	4.4970E-11	2.6268E-15	6.6466E+09	1.1327E+05	
Pu-239	4.5397E-12	7.3037E-14	1.8403E+11	1.1428E+04	
Pu-240	8.0111E-12	3.5173E-15	8.8257E+09	2.0179E+04	
Pu-241	1.7797E-09	1.7997E-14	4.4970E+10	4.4830E+06	
Am-241	1.0090E-12	2.9453E-16	7.3596E+08	2.5381E+03	
Cm-242	2.7622E-10	8.3443E-17	2.0765E+08	6.9628E+05	
Cm-244	1.8289E-11	2.2344E-16	5.5146E+08	4.6068E+04	

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CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)	2.7413E+18	0.0000E+00	
Elemental I (atoms)	1.0074E+13	0.0000E+00	
Organic I (atoms)	2.2299E+13	0.0000E+00	
Aerosols (kg)	2.2115E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	8.7700E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0250E-13	
Total I (Ci)		2.7309E-03	

	Deposition	Recirculating
Time (h) =	8.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.1593E+12
Organic I (atoms)	0.0000E+00	5.7099E+12
Aerosols (kg)	0.0000E+00	3.7920E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway
Time (h) =	8.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 3.6263E+18
Organic I (atoms)	1.2533E+14 1.2659E+12
Aerosols (kg)	2.1487E+14 2.1704E+12
	6.8135E-10 6.8826E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway
Time (h) =	8.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 6.7154E+17
Organic I (atoms)	0.0000E+00 2.3443E+13
Aerosols (kg)	0.0000E+00 4.0193E+13
	0.0000E+00 1.2745E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway
Time (h) =	8.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	1.5494E+18 0.0000E+00
Organic I (atoms)	9.9586E+12 0.0000E+00
Aerosols (kg)	1.3671E+13 0.0000E+00
	9.0791E-11 0.0000E+00

EAB Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6815E-01	2.0987E+00	5.3738E-01	
Accumulated dose (rem)	7.5608E-01	2.8355E+00	8.5286E-01	

LPZ Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2881E-02	9.8864E-02	4.6142E-02	
Accumulated dose (rem)	8.2078E-02	1.9916E-01	8.9089E-02	

CR Doses:

Time (h) =	16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.2176E-02	7.7871E-01	1.6246E-01	
Accumulated dose (rem)	1.4906E-01	1.1513E+00	2.6264E-01	

CR Compartment Nuclide Inventory:

Time (h) =	16.0000	Ci	kg	Atoms	Decay
Kr-83m	4.0355E-03	1.9880E-13	1.4424E+12	5.8155E+13	
Kr-85m	2.9706E-01	3.6096E-11	2.5574E+14	7.9228E+14	
Kr-85	1.7852E-01	4.5544E-07	3.2267E+18	1.9499E+14	
Kr-87	1.1621E-03	4.1026E-14	2.8398E+11	8.4860E+13	
Kr-88	1.9496E-01	1.5548E-11	1.0640E+14	9.8064E+14	
Rb-86	1.8122E-09	2.2272E-17	1.5596E+08	4.9045E+07	
Rb-88	5.6421E-01	4.6738E-12	3.1985E+13	7.9967E+14	
Sr-89	8.8099E-08	3.0324E-15	2.0519E+10	1.5272E+09	

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Sr-90	9.5108E-09	6.9724E-14	4.6654E+11	1.6382E+08
Sr-91	3.4100E-08	9.4070E-18	6.2253E+07	1.3671E+09
Sr-92	1.8948E-09	1.5074E-19	9.8674E+05	7.2915E+08
Y-90	1.4489E-09	2.6631E-18	1.7819E+07	7.5179E+06
Y-91	1.2826E-09	5.2299E-17	3.4610E+08	2.0144E+07
Y-92	8.6487E-09	8.9882E-19	5.8835E+06	3.3731E+08
Y-93	4.1462E-10	1.2428E-19	8.0474E+05	1.5791E+07
Zr-95	1.3061E-09	6.0796E-17	3.8539E+08	2.2611E+07
Zr-97	6.5837E-10	3.4440E-19	2.1381E+06	1.8136E+07
Nb-95	1.2975E-09	3.3180E-17	2.1033E+08	2.2347E+07
Mo-99	1.4037E-08	2.9268E-17	1.7804E+08	2.7229E+08
Tc-99m	1.3627E-08	2.5916E-18	1.5764E+07	2.4724E+08
Ru-103	1.4209E-08	4.4025E-16	2.5740E+09	2.4677E+08
Ru-105	8.4249E-10	1.2533E-19	7.1883E+05	9.2562E+07
Ru-106	5.9693E-09	1.7842E-15	1.0137E+10	1.0291E+08
Rh-105	7.9199E-09	9.3832E-18	5.3816E+07	1.5962E+08
Sb-127	1.4670E-08	5.4935E-17	2.6049E+08	2.7504E+08
Sb-129	3.9226E-09	6.9756E-19	3.2564E+06	4.5472E+08
Te-127	1.5815E-08	5.9926E-18	2.8416E+07	2.7872E+08
Te-127m	2.7978E-09	2.9661E-16	1.4065E+09	4.8191E+07
Te-129	1.2797E-08	6.1108E-19	2.8527E+06	5.4855E+08
Te-129m	9.1050E-09	3.0224E-16	1.4109E+09	1.5789E+08
Te-131m	2.4019E-08	3.0122E-17	1.3847E+08	5.3803E+08
Te-132	2.1643E-07	7.1291E-16	3.2524E+09	4.1208E+09
I-131	6.4346E-04	5.1902E-12	2.3860E+13	9.5093E+11
I-132	2.3461E-05	2.2728E-15	1.0369E+10	2.0858E+11
I-133	8.2809E-04	7.3101E-13	3.3099E+12	1.4700E+12
I-134	5.1902E-09	1.9456E-19	8.7437E+05	2.2518E+10
I-135	2.4913E-04	7.0939E-14	3.1645E+11	7.2076E+11
Xe-133	2.0171E+01	1.0776E-07	4.8793E+17	2.2619E+16
Xe-133m	5.5216E-01	1.2542E-09	5.6788E+15	6.4313E+14
Xe-135	3.2802E+00	1.2845E-09	5.7298E+15	5.3449E+15
Xe-135m	1.3378E-04	1.4696E-15	6.5555E+09	6.8097E+11
Cs-134	1.8565E-07	1.4349E-13	6.4487E+11	4.9350E+09
Cs-136	5.4716E-08	7.4655E-16	3.3058E+09	1.4924E+09
Cs-137	1.4422E-07	1.6580E-12	7.2882E+12	3.8319E+09
Ba-139	4.3050E-11	2.6319E-21	1.1403E+04	4.2288E+08
Ba-140	1.2612E-07	1.7228E-15	7.4105E+09	2.2286E+09
La-140	2.9011E-08	5.2193E-17	2.2451E+08	1.4646E+08
La-141	7.3032E-11	1.2914E-20	5.5155E+04	1.0317E+07
Ce-141	3.0531E-09	1.0715E-16	4.5764E+08	5.3060E+07
Ce-143	2.1516E-09	3.2399E-18	1.3644E+07	4.7048E+07
Ce-144	2.4707E-09	7.7464E-16	3.2396E+09	4.2605E+07
Pr-143	1.2184E-09	1.8093E-17	7.6196E+07	2.0494E+07
Nd-147	4.6092E-10	5.6975E-18	2.3341E+07	8.1779E+06
Np-239	2.8941E-08	1.2475E-16	3.1433E+08	5.7273E+08
Pu-238	7.6898E-12	4.4918E-16	1.1366E+09	1.3244E+05
Pu-239	7.7705E-13	1.2502E-14	3.1500E+10	1.3364E+04
Pu-240	1.3698E-12	6.0143E-16	1.5091E+09	2.3594E+04
Pu-241	3.0431E-10	3.0772E-15	7.6892E+09	5.2417E+06
Am-241	1.7296E-13	5.0488E-17	1.2616E+08	2.9686E+03
Cm-242	4.7164E-11	1.4248E-17	3.5456E+07	8.1398E+05
Cm-244	3.1271E-12	3.8205E-17	9.4292E+07	5.3864E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	3.7264E+18	0.0000E+00
Elemental I (atoms)	3.4932E+12	0.0000E+00
Organic I (atoms)	2.3966E+13	0.0000E+00
Aerosols (kg)	6.5804E-12	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	7.3099E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.2158E-14
Total I (Ci)		1.7441E-03

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	9.0220E+12
Organic I (atoms)	0.0000E+00	2.3183E+13
Aerosols (kg)	0.0000E+00	4.6551E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5910E+18
Elemental I (atoms)	1.7793E+14	1.7972E+12
Organic I (atoms)	5.3228E+14	5.3766E+12
Aerosols (kg)	7.0075E-10	7.0785E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7761E+18
Elemental I (atoms)	0.0000E+00	3.3282E+13
Organic I (atoms)	0.0000E+00	9.9567E+13
Aerosols (kg)	0.0000E+00	1.3108E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	7.6107E+18	0.0000E+00
Elemental I (atoms)	2.1601E+13	0.0000E+00
Organic I (atoms)	5.5507E+13	0.0000E+00
Aerosols (kg)	1.1146E-10	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4509E-01	2.6843E+00	4.2938E-01
Accumulated dose (rem)	1.1012E+00	5.5197E+00	1.2822E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1609E-02	1.2645E-01	3.5580E-02
Accumulated dose (rem)	1.1369E-01	3.2561E-01	1.2467E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3218E-02	8.8093E-01	1.1147E-01
Accumulated dose (rem)	2.1228E-01	2.0322E+00	3.7411E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	2.9113E-04	1.4342E-14	1.0406E+11	5.9745E+13
Kr-85m	1.2252E-01	1.4888E-11	1.0548E+14	1.0121E+15
Kr-85	2.5386E-01	6.4765E-07	4.5885E+18	4.3311E+14
Kr-87	2.1106E-05	7.4512E-16	5.1577E+09	8.5178E+13
Kr-88	3.9347E-02	3.1379E-12	2.1474E+13	1.0892E+15
Rb-86	1.1325E-09	1.3919E-17	9.7465E+07	5.0424E+07
Rb-88	1.1422E-01	9.4618E-13	6.4750E+12	8.9134E+14
Sr-89	6.2964E-08	2.1673E-15	1.4665E+10	1.6007E+09
Sr-90	6.8283E-09	5.0058E-14	3.3495E+11	1.7176E+08
Sr-91	1.3657E-08	3.7675E-18	2.4932E+07	1.3890E+09
Sr-92	1.7580E-10	1.3986E-20	9.1550E+04	7.2985E+08
Y-90	1.5154E-09	2.7853E-18	1.8637E+07	8.9507E+06
Y-91	9.4581E-10	3.8567E-17	2.5523E+08	2.1228E+07
Y-92	1.6678E-09	1.7333E-19	1.1346E+06	3.4142E+08
Y-93	1.7192E-10	5.1529E-20	3.3367E+05	1.6060E+07
Zr-95	9.3434E-10	4.3492E-17	2.7570E+08	2.3700E+07
Zr-97	3.4047E-10	1.7810E-19	1.1057E+06	1.8608E+07
Nb-95	9.3150E-10	2.3822E-17	1.5101E+08	2.3430E+07
Mo-99	9.2662E-09	1.9320E-17	1.1752E+08	2.8355E+08
Tc-99m	9.2816E-09	1.7651E-18	1.0737E+07	2.5778E+08
Ru-103	1.0141E-08	3.1423E-16	1.8372E+09	2.5860E+08
Ru-105	1.7349E-10	2.5809E-20	1.4802E+05	9.2975E+07
Ru-106	4.2831E-09	1.2802E-15	7.2733E+09	1.0789E+08
Rh-105	4.9107E-09	5.8180E-18	3.3369E+07	1.6579E+08
Sb-127	9.9193E-09	3.7144E-17	1.7613E+08	2.8695E+08
Sb-129	7.8022E-10	1.3875E-19	6.4771E+05	4.5661E+08
Te-127	1.1068E-08	4.1939E-18	1.9887E+07	2.9133E+08
Te-127m	2.0084E-09	2.1292E-16	1.0096E+09	5.0527E+07
Te-129	6.7117E-09	3.2048E-19	1.4961E+06	5.5555E+08

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Te-129m	6.4947E-09	2.1559E-16	1.0064E+09	1.6547E+08
Te-131m	1.4335E-08	1.7977E-17	8.2640E+07	5.5642E+08
Te-132	1.4475E-07	4.7680E-16	2.1753E+09	4.2956E+09
I-131	7.9017E-04	6.3736E-12	2.9300E+13	1.7340E+12
I-132	1.0712E-05	1.0378E-15	4.7346E+09	2.2626E+11
I-133	8.0143E-04	7.0747E-13	3.2034E+12	2.3633E+12
I-135	1.3604E-04	3.8736E-14	1.7280E+11	9.2583E+11
Xe-133	2.7485E+01	1.4683E-07	6.6485E+17	4.8926E+16
Xe-133m	7.0815E-01	1.6085E-09	7.2832E+15	1.3410E+15
Xe-135	2.5430E+00	9.9579E-10	4.4421E+15	8.5729E+15
Xe-135m	7.2227E-05	7.9341E-16	3.5393E+09	7.8636E+11
Cs-134	1.1743E-07	9.0762E-14	4.0790E+11	5.0770E+09
Cs-136	3.4014E-08	4.6410E-16	2.0550E+09	1.5339E+09
Cs-137	9.1246E-08	1.0490E-12	4.6112E+12	3.9422E+09
Ba-140	8.8923E-08	1.2146E-15	5.2248E+09	2.3330E+09
La-140	2.9632E-08	5.3311E-17	2.2932E+08	1.7477E+08
Ce-141	2.1768E-09	7.6398E-17	3.2630E+08	5.5601E+07
Ce-143	1.3058E-09	1.9664E-18	8.2809E+06	4.8708E+07
Ce-144	1.7724E-09	5.5571E-16	2.3240E+09	4.4667E+07
Pr-143	8.8365E-10	1.3123E-17	5.5263E+07	2.1515E+07
Nd-147	3.2403E-10	4.0054E-18	1.6409E+07	8.5590E+06
Np-239	1.8837E-08	8.1195E-17	2.0459E+08	5.9580E+08
Pu-238	5.5212E-12	3.2251E-16	8.1604E+08	1.3886E+05
Pu-239	5.5842E-13	8.9840E-15	2.2637E+10	1.4013E+04
Pu-240	9.8349E-13	4.3181E-16	1.0835E+09	2.4738E+04
Pu-241	2.1847E-10	2.2092E-15	5.5204E+09	5.4959E+06
Am-241	1.2450E-13	3.6341E-17	9.0809E+07	3.1132E+03
Cm-242	3.3814E-11	1.0215E-17	2.5420E+07	8.5334E+05
Cm-244	2.2451E-12	2.7429E-17	6.7696E+07	5.6476E+04

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	5.2652E+18	0.0000E+00
Elemental I (atoms)	1.6573E+12	0.0000E+00
Organic I (atoms)	3.1000E+13	0.0000E+00
Aerosols (kg)	2.1604E-12	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		8.5975E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.4182E-14
Total I (Ci)		1.7383E-03

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.1102E+13
Organic I (atoms)	0.0000E+00	4.6784E+13
Aerosols (kg)	0.0000E+00	4.9621E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8659E+19
Elemental I (atoms)	2.0518E+14	2.0725E+12
Organic I (atoms)	9.8316E+14	9.9309E+12
Aerosols (kg)	7.1856E-10	7.2584E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4553E+18
Elemental I (atoms)	0.0000E+00	3.8380E+13
Organic I (atoms)	0.0000E+00	1.8391E+14
Aerosols (kg)	0.0000E+00	1.3441E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.6789E+19	0.0000E+00
Elemental I (atoms)	2.6583E+13	0.0000E+00
Organic I (atoms)	1.1201E+14	0.0000E+00
Aerosols (kg)	1.1881E-10	0.0000E+00

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EAB Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6174E-01	1.0927E+01	1.0962E+00
Accumulated dose (rem)		1.8629E+00	1.6447E+01	2.3785E+00

LPZ Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9381E-02	2.7698E-01	3.7860E-02
Accumulated dose (rem)		1.4307E-01	6.0259E-01	1.6253E-01

CR Doses:

Time (h) =	96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.9947E-02	1.6877E+00	1.2353E-01
Accumulated dose (rem)		2.8223E-01	3.7199E+00	4.9764E-01

CR Compartment Nuclide Inventory:

Time (h) =	96.0000	Ci	kg	Atoms	Decay
Kr-85m		7.6094E-07	9.2465E-17	6.5510E+08	1.0747E+15
Kr-85		1.0851E-01	2.7684E-07	1.9614E+18	1.5184E+15
Kr-88		3.9290E-10	3.1333E-20	2.1442E+05	1.1031E+15
Rb-86		8.2397E-11	1.0126E-18	7.0911E+06	5.1598E+07
Rb-88		1.1437E-09	9.4740E-21	6.4834E+04	9.0526E+14
Sr-89		4.9725E-09	1.7116E-16	1.1581E+09	1.6682E+09
Sr-90		5.6182E-10	4.1187E-15	2.7559E+10	1.7920E+08
Sr-91		5.8782E-12	1.6216E-21	1.0731E+04	1.3943E+09
Y-90		3.6305E-10	6.6730E-19	4.4651E+06	1.1909E+07
Y-91		7.8190E-11	3.1883E-18	2.1100E+07	2.2270E+07
Zr-95		7.4432E-11	3.4647E-18	2.1963E+07	2.4705E+07
Nb-95		7.6558E-11	1.9578E-18	1.2411E+07	2.4444E+07
Mo-99		3.5799E-10	7.4642E-19	4.5404E+06	2.9137E+08
Tc-99m		3.6703E-10	6.9800E-20	4.2459E+05	2.6532E+08
Ru-103		7.9155E-10	2.4526E-17	1.4340E+08	2.6943E+08
Ru-106		3.5049E-10	1.0476E-16	5.9518E+08	1.1255E+08
Rh-105		9.9034E-11	1.1733E-19	6.7294E+05	1.6926E+08
Sb-127		4.7565E-10	1.7811E-18	8.4457E+06	2.9590E+08
Te-127		6.1740E-10	2.3394E-19	1.1093E+06	3.0153E+08
Te-127m		1.6430E-10	1.7418E-17	8.2595E+07	5.2711E+07
Te-129		4.3449E-10	2.0747E-20	9.6855E+04	5.6029E+08
Te-129m		5.0247E-10	1.6679E-17	7.7865E+07	1.7238E+08
Te-131m		2.2351E-10	2.8029E-19	1.2885E+06	5.6592E+08
Te-132		6.2928E-09	2.0728E-17	9.4564E+07	4.4222E+09
I-131		2.3845E-04	1.9233E-12	8.8417E+12	4.4479E+12
I-132		6.3461E-07	6.1480E-17	2.8049E+08	2.3895E+11
I-133		2.8391E-05	2.5062E-14	1.1348E+11	3.6072E+12
I-135		2.7925E-08	7.9517E-18	3.5471E+07	1.0101E+12
Xe-133		7.9710E+00	4.2584E-08	1.9282E+17	1.4720E+17
Xe-133m		1.1924E-01	2.7085E-10	1.2264E+15	3.3552E+15
Xe-135		4.5053E-03	1.7642E-12	7.8698E+12	1.0889E+16
Xe-135m		1.4673E-08	1.6118E-19	7.1902E+05	8.2099E+11
Cs-134		9.5244E-09	7.3614E-15	3.3083E+10	5.2037E+09
Cs-136		2.3604E-09	3.2205E-17	1.4261E+08	1.5686E+09
Cs-137		7.4198E-09	8.5303E-14	3.7497E+11	4.0408E+09
Ba-140		6.2158E-09	8.4906E-17	3.6522E+08	2.4242E+09
La-140		5.4646E-09	9.8314E-18	4.2290E+07	2.2574E+08
Ce-141		1.6804E-10	5.8977E-18	2.5189E+07	5.7917E+07
Ce-143		2.3685E-11	3.5665E-20	1.5020E+05	4.9606E+07
Ce-144		1.4480E-10	4.5399E-17	1.8986E+08	4.6593E+07
Pr-143		7.0117E-11	1.0413E-18	4.3850E+06	2.2475E+07
Nd-147		2.2065E-11	2.7275E-19	1.1174E+06	8.8884E+06
Np-239		6.4106E-10	2.7633E-18	6.9627E+06	6.1110E+08
Pu-238		4.5452E-13	2.6549E-17	6.7178E+07	1.4488E+05
Pu-239		4.6198E-14	7.4326E-16	1.8728E+09	1.4623E+04
Pu-240		8.0937E-14	3.5536E-17	8.9167E+07	2.5809E+04
Pu-241		1.7972E-11	1.8174E-16	4.5413E+08	5.7339E+06
Am-241		1.0482E-14	3.0596E-18	7.6454E+06	3.2500E+03
Cm-242		2.7474E-12	8.2999E-19	2.0654E+06	8.9000E+05
Cm-244		1.8470E-13	2.2565E-18	5.5693E+06	5.8922E+04

CR Transport Group Inventory:

Time (h) =	96.0000	Atmosphere	Sump
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Noble gases (atoms)	2.1554E+18	0.0000E+00	
Elemental I (atoms)	4.7684E+10	0.0000E+00	
Organic I (atoms)	8.9065E+12	0.0000E+00	
Aerosols (kg)	9.8614E-14	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.2540E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.2807E-14
Total I (Ci)			2.6750E-04

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.2570E+13
Organic I (atoms)	0.0000E+00	1.3000E+14
Aerosols (kg)	0.0000E+00	5.0998E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	5.1579E+19
Elemental I (atoms)	2.2267E+14	2.2492E+12
Organic I (atoms)	2.3240E+15	2.3475E+13
Aerosols (kg)	7.3175E-10	7.3917E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	9.5517E+18
Elemental I (atoms)	0.0000E+00	4.1652E+13
Organic I (atoms)	0.0000E+00	4.3473E+14
Aerosols (kg)	0.0000E+00	1.3688E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	5.8813E+19	0.0000E+00
Elemental I (atoms)	3.0096E+13	0.0000E+00
Organic I (atoms)	3.1126E+14	0.0000E+00
Aerosols (kg)	1.2211E-10	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2710E+00	2.9368E+01	2.1657E+00
Accumulated dose (rem)	3.1340E+00	4.5815E+01	4.5442E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4206E-02	2.1569E-01	2.0777E-02
Accumulated dose (rem)	1.5727E-01	8.1828E-01	1.8331E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3497E-02	2.1886E+00	1.2017E-01
Accumulated dose (rem)	3.3573E-01	5.9085E+00	6.1781E-01

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 720.0000				
Kr-85	6.7493E-02	1.7219E-07	1.2199E+18	7.8166E+15
Rb-86	1.9527E-11	2.3999E-19	1.6805E+06	5.4714E+07
Sr-89	2.1665E-09	7.4574E-17	5.0460E+08	1.9121E+09
Sr-90	3.4917E-10	2.5598E-15	1.7128E+10	2.1172E+08
Y-90	3.5101E-10	6.4516E-19	4.3169E+06	4.2558E+07
Y-91	3.5781E-11	1.4590E-18	9.6554E+06	2.6192E+07
Zr-95	3.4963E-11	1.6275E-18	1.0317E+07	2.8483E+07
Nb-95	4.4395E-11	1.1353E-18	7.1969E+06	2.8762E+07
Ru-103	3.1146E-10	9.6504E-18	5.6423E+07	3.0652E+08
Ru-106	2.0777E-10	6.2104E-17	3.5283E+08	1.3238E+08
Sb-127	2.7449E-12	1.0279E-20	4.8739E+04	3.0214E+08

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Te-127	9.2734E-11	3.5139E-20	1.6662E+05	3.1602E+08
Te-127m	8.8334E-11	9.3648E-18	4.4406E+07	6.1638E+07
Te-129	1.5820E-10	7.5543E-21	3.5266E+04	5.7511E+08
Te-129m	1.8296E-10	6.0732E-18	2.8352E+07	1.9514E+08
Te-132	1.5522E-11	5.1126E-20	2.3325E+05	4.4929E+09
I-131	1.5837E-05	1.2775E-13	5.8726E+11	1.0194E+13
I-132	1.5663E-09	1.5174E-19	6.9227E+05	2.4719E+11
Xe-133	1.6211E-01	8.6606E-10	3.9214E+15	2.8619E+17
Xe-133m	2.3041E-05	5.2335E-14	2.3697E+11	4.2953E+15
Cs-134	5.7892E-09	4.4745E-15	2.0109E+10	5.7492E+09
Cs-136	3.7127E-10	5.0657E-18	2.2431E+07	1.6448E+09
Cs-137	4.6116E-09	5.3018E-14	2.3305E+11	4.4703E+09
Ba-140	9.4043E-10	1.2846E-17	5.5257E+07	2.6219E+09
La-140	1.0924E-09	1.9654E-18	8.4541E+06	4.4327E+08
Ce-141	6.0087E-11	2.1088E-18	9.0068E+06	6.5467E+07
Ce-144	8.4608E-11	2.6527E-17	1.1094E+08	5.4730E+07
Pr-143	1.1997E-11	1.7816E-19	7.5027E+05	2.4852E+07
Nd-147	2.6611E-12	3.2895E-20	1.3476E+05	9.5352E+06
Pu-238	2.8371E-13	1.6572E-17	4.1933E+07	1.7124E+05
Pu-239	2.8868E-14	4.6443E-16	1.1702E+09	1.7308E+04
Pu-240	5.0392E-14	2.2125E-17	5.5516E+07	3.0498E+04
Pu-241	1.1152E-11	1.1277E-16	2.8179E+08	6.7733E+06
Am-241	7.7974E-15	2.2761E-18	5.6875E+06	3.9140E+03
Cm-242	1.5314E-12	4.6262E-19	1.1512E+06	1.0410E+06
Cm-244	1.1467E-13	1.4009E-18	3.4576E+06	6.9607E+04

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.2239E+18	0.0000E+00
Elemental I (atoms)	2.7304E+09	0.0000E+00
Organic I (atoms)	5.8444E+11	0.0000E+00
Aerosols (kg)	6.0907E-14	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4680E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4680E-15
Total I (Ci)		1.5839E-05

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3365E+13
Organic I (atoms)	0.0000E+00	2.9823E+14
Aerosols (kg)	0.0000E+00	5.5493E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3809E+20
Elemental I (atoms)	2.3627E+14	2.3865E+12
Organic I (atoms)	5.2076E+15	5.2603E+13
Aerosols (kg)	8.0895E-10	8.1715E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4091E+19
Elemental I (atoms)	0.0000E+00	4.4195E+13
Organic I (atoms)	0.0000E+00	9.7412E+14
Aerosols (kg)	0.0000E+00	1.5132E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	2.8065E+20	0.0000E+00
Elemental I (atoms)	3.1999E+13	0.0000E+00
Organic I (atoms)	7.1406E+14	0.0000E+00
Aerosols (kg)	1.3287E-10	0.0000E+00

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I-131 Summary

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Time (hr)	DW I-131 (Curies)	WW I-131 (Curies)	Dummy I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4411E-02
0.017	1.8470E+05	0.0000E+00	3.1089E+01
0.083	9.2044E+05	0.0000E+00	7.7298E+02
0.333	3.6817E+06	0.0000E+00	1.0901E+03
0.500	6.8012E+05	0.0000E+00	1.2252E+03
0.750	9.4093E+05	0.0000E+00	1.3469E+03
1.000	9.4889E+05	0.0000E+00	1.4764E+03
1.400	9.5870E+05	0.0000E+00	1.6854E+03
1.700	9.6603E+05	0.0000E+00	1.8434E+03
2.000	9.7334E+05	0.0000E+00	2.0026E+03
2.250	5.9162E+04	4.0983E+04	2.0443E+03
2.400	6.0403E+04	3.7668E+04	2.0510E+03
2.700	6.0349E+04	3.7597E+04	2.0643E+03
3.000	6.0272E+04	3.7549E+04	2.0776E+03
3.300	6.0196E+04	3.7501E+04	2.0909E+03
3.600	6.0119E+04	3.7454E+04	2.1041E+03
3.900	6.0043E+04	3.7406E+04	2.1173E+03
4.000	6.0017E+04	3.7390E+04	2.1217E+03
4.300	5.9941E+04	3.7343E+04	2.1349E+03
4.600	5.9865E+04	3.7295E+04	2.1480E+03
4.900	5.9789E+04	3.7248E+04	2.1611E+03
5.200	5.9713E+04	3.7200E+04	2.1742E+03
5.500	5.9637E+04	3.7153E+04	2.1872E+03
5.800	5.9561E+04	3.7106E+04	2.2002E+03
6.100	5.9485E+04	3.7058E+04	2.2131E+03
6.400	5.9409E+04	3.7011E+04	2.2261E+03
6.700	5.9334E+04	3.6964E+04	2.2389E+03
7.000	5.9258E+04	3.6917E+04	2.2518E+03
7.300	5.9183E+04	3.6870E+04	2.2646E+03
7.600	5.9107E+04	3.6823E+04	2.2774E+03
7.900	5.9032E+04	3.6776E+04	2.2902E+03
8.000	5.9007E+04	3.6761E+04	2.2944E+03
8.300	5.8932E+04	3.6714E+04	2.3071E+03
8.600	5.8857E+04	3.6667E+04	2.3198E+03
8.900	5.8782E+04	3.6621E+04	2.3324E+03
9.200	5.8707E+04	3.6574E+04	2.3451E+03
9.500	5.8632E+04	3.6527E+04	2.3576E+03
9.800	5.8558E+04	3.6481E+04	2.3702E+03
10.100	5.8483E+04	3.6434E+04	2.3827E+03
10.400	5.8409E+04	3.6388E+04	2.3952E+03
16.000	5.7035E+04	3.5532E+04	2.6223E+03
24.000	5.5126E+04	3.4343E+04	2.9278E+03
96.000	4.1555E+04	2.5888E+04	3.5649E+03
720.000	3.5475E+03	2.2101E+03	1.4427E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSIV Failed Inboard V I-131 (Curies)
0.000	2.7964E-13	1.9400E-16	2.2587E-04
0.017	2.1924E-07	1.5202E-10	1.9741E-01
0.083	1.1536E-04	2.1068E-08	4.3095E+00
0.333	1.7195E-02	3.0603E-06	4.6018E+01
0.500	5.7715E-02	1.0087E-05	3.5738E+01
0.750	1.2461E-01	2.0902E-05	2.7057E+01
1.000	1.8997E-01	3.0530E-05	2.7376E+01
1.400	3.1674E-01	4.8091E-05	3.0381E+01
1.700	4.4302E-01	6.5090E-05	3.3144E+01
2.000	6.0486E-01	8.6520E-05	3.6154E+01
2.250	7.6700E-01	9.7855E-05	2.4456E+01
2.400	8.7133E-01	1.0501E-04	2.1823E+01
2.700	1.1023E+00	1.2079E-04	2.0891E+01
3.000	1.3727E+00	1.3949E-04	2.1237E+01
3.300	1.6870E+00	1.6132E-04	2.1746E+01
3.600	2.0462E+00	1.8606E-04	2.2262E+01
3.900	2.4505E+00	2.1345E-04	2.2763E+01
4.000	2.5953E+00	2.2311E-04	2.2926E+01
4.300	3.0594E+00	2.5356E-04	2.3405E+01
4.600	3.5681E+00	2.8600E-04	2.3867E+01
4.900	4.1209E+00	3.2018E-04	2.4313E+01
5.200	4.7174E+00	3.5587E-04	2.4743E+01
5.500	5.3572E+00	3.9287E-04	2.5158E+01

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5.800	6.0396E+00	4.3096E-04	2.5558E+01
6.100	6.7641E+00	4.6998E-04	2.5944E+01
6.400	7.5300E+00	5.0976E-04	2.6316E+01
6.700	8.3367E+00	5.5012E-04	2.6675E+01
7.000	9.1834E+00	5.9095E-04	2.7021E+01
7.300	1.0069E+01	6.3209E-04	2.7355E+01
7.600	1.0994E+01	6.7344E-04	2.7676E+01
7.900	1.1956E+01	7.1488E-04	2.7986E+01
8.000	1.2285E+01	7.2870E-04	2.8087E+01
8.300	1.3297E+01	6.9724E-04	2.8382E+01
8.600	1.4344E+01	6.7054E-04	2.8665E+01
8.900	1.5426E+01	6.4808E-04	2.8939E+01
9.200	1.6543E+01	6.2939E-04	2.9202E+01
9.500	1.7693E+01	6.1405E-04	2.9455E+01
9.800	1.8875E+01	6.0168E-04	2.9699E+01
10.100	2.0090E+01	5.9193E-04	2.9934E+01
10.400	2.1335E+01	5.8452E-04	3.0159E+01
16.000	4.9260E+01	6.4346E-04	3.3049E+01
24.000	9.8744E+01	7.9017E-04	3.4446E+01
96.000	3.2416E+02	2.3845E-04	2.7199E+01
720.000	9.7277E+02	1.5837E-05	2.3260E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volum I-131 (Curies)
0.000	4.3399E-09	2.2587E-04	5.1102E-09
0.017	1.1221E-04	1.9730E-01	1.3208E-04
0.083	1.1441E-02	4.2982E+00	1.3445E-02
0.333	3.8637E-01	4.5661E+01	4.5212E-01
0.500	6.5157E-01	3.5188E+01	7.6013E-01
0.750	6.7786E-01	2.6615E+01	7.9055E-01
1.000	7.9742E-01	2.6969E+01	9.3363E-01
1.400	1.1559E+00	2.9926E+01	1.3594E+00
1.700	1.5120E+00	3.2623E+01	1.7816E+00
2.000	1.9333E+00	3.5551E+01	2.2815E+00
2.250	2.2036E+00	2.3889E+01	2.6044E+00
2.400	2.3506E+00	2.1289E+01	2.7814E+00
2.700	2.7181E+00	2.0336E+01	3.2219E+00
3.000	3.1271E+00	2.0607E+01	3.7106E+00
3.300	3.5374E+00	2.1029E+01	4.2006E+00
3.600	3.9380E+00	2.1455E+01	4.6795E+00
3.900	4.3271E+00	2.1867E+01	5.1448E+00
4.000	4.4541E+00	2.2001E+01	5.2968E+00
4.300	4.8275E+00	2.2391E+01	5.7437E+00
4.600	5.1894E+00	2.2765E+01	6.1771E+00
4.900	5.5402E+00	2.3124E+01	6.5972E+00
5.200	5.8800E+00	2.3468E+01	7.0043E+00
5.500	6.2092E+00	2.3798E+01	7.3987E+00
5.800	6.5281E+00	2.4114E+01	7.7806E+00
6.100	6.8370E+00	2.4416E+01	8.1503E+00
6.400	7.1361E+00	2.4706E+01	8.5081E+00
6.700	7.4256E+00	2.4984E+01	8.8542E+00
7.000	7.7059E+00	2.5250E+01	9.1890E+00
7.300	7.9772E+00	2.5505E+01	9.5128E+00
7.600	8.2397E+00	2.5748E+01	9.8257E+00
7.900	8.4937E+00	2.5981E+01	1.0128E+01
8.000	8.5765E+00	2.6057E+01	1.0227E+01
8.300	8.8195E+00	2.6276E+01	1.0515E+01
8.600	9.0546E+00	2.6486E+01	1.0794E+01
8.900	9.2819E+00	2.6687E+01	1.1064E+01
9.200	9.5017E+00	2.6879E+01	1.1324E+01
9.500	9.7141E+00	2.7062E+01	1.1574E+01
9.800	9.9195E+00	2.7237E+01	1.1816E+01
10.100	1.0118E+01	2.7403E+01	1.2050E+01
10.400	1.0310E+01	2.7563E+01	1.2275E+01
16.000	1.2883E+01	2.9437E+01	1.5217E+01
24.000	1.4435E+01	3.0009E+01	1.6822E+01
96.000	1.2032E+01	2.3126E+01	1.3689E+01
720.000	1.0302E+00	1.9758E+00	1.1704E+00

Cumulative Dose Summary
#####

EAB

LPZ

CR

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Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	1.4080E-08	6.9993E-10	1.9167E-09	9.5284E-11	1.1961E-10	5.1483E-12
0.083	7.4027E-06	3.6811E-07	1.0078E-06	5.0112E-08	6.7748E-08	2.9564E-09
0.333	1.1003E-03	5.4867E-05	1.4979E-04	7.4693E-06	4.1462E-05	1.8113E-06
0.500	3.6866E-03	1.8562E-04	5.0188E-04	2.5270E-05	2.3061E-04	1.0090E-05
0.750	7.9547E-03	4.2983E-04	1.0829E-03	5.8514E-05	9.3019E-04	4.1263E-05
1.000	1.2152E-02	7.7822E-04	1.6543E-03	1.0594E-04	2.0781E-03	9.6361E-05
1.400	2.0285E-02	1.9661E-03	2.7614E-03	2.6766E-04	4.8631E-03	2.6329E-04
1.700	2.8316E-02	3.7829E-03	3.8548E-03	5.1498E-04	7.8750E-03	5.0945E-04
2.000	3.8535E-02	6.8038E-03	5.2460E-03	9.2623E-04	1.1897E-02	9.4238E-04
2.250	4.8698E-02	1.0477E-02	6.6295E-03	1.4263E-03	1.5973E-02	1.4852E-03
2.400	5.5191E-02	1.3190E-02	7.5134E-03	1.7956E-03	1.8657E-02	1.8899E-03
2.700	6.9479E-02	1.9787E-02	9.4585E-03	2.6938E-03	2.4599E-02	2.9102E-03
3.000	8.6126E-02	2.7989E-02	1.1725E-02	3.8102E-03	3.1412E-02	4.2771E-03
3.300	1.0541E-01	3.7731E-02	1.4349E-02	5.1365E-03	3.9249E-02	6.0518E-03
3.600	1.2737E-01	4.8933E-02	1.7339E-02	6.6615E-03	4.8261E-02	8.2869E-03
3.900	1.5200E-01	6.1497E-02	2.0693E-02	8.3718E-03	5.8585E-02	1.1024E-02
4.000	1.6080E-01	6.5969E-02	2.1891E-02	8.9807E-03	6.2339E-02	1.2054E-02
4.300	1.8896E-01	8.0183E-02	2.5724E-02	1.0916E-02	7.4596E-02	1.5505E-02
4.600	2.1973E-01	9.5504E-02	2.9912E-02	1.3001E-02	8.8423E-02	1.9512E-02
4.900	2.5306E-01	1.1182E-01	3.4450E-02	1.5223E-02	1.0391E-01	2.4079E-02
5.200	2.8892E-01	1.2903E-01	3.9332E-02	1.7565E-02	1.2112E-01	2.9203E-02
5.500	3.2726E-01	1.4702E-01	4.4552E-02	2.0014E-02	1.4011E-01	3.4874E-02
5.800	3.6805E-01	1.6569E-01	5.0104E-02	2.2556E-02	1.6095E-01	4.1074E-02
6.100	4.1122E-01	1.8495E-01	5.5981E-02	2.5177E-02	1.8367E-01	4.7782E-02
6.400	4.5673E-01	2.0470E-01	6.2176E-02	2.7867E-02	2.0830E-01	5.4971E-02
6.700	5.0453E-01	2.2488E-01	6.8683E-02	3.0614E-02	2.3487E-01	6.2612E-02
7.000	5.5456E-01	2.4541E-01	7.5494E-02	3.3408E-02	2.6339E-01	7.0675E-02
7.300	6.0677E-01	2.6621E-01	8.2602E-02	3.6240E-02	2.9387E-01	7.9128E-02
7.600	6.6111E-01	2.8722E-01	9.0000E-02	3.9100E-02	3.2630E-01	8.7936E-02
7.900	7.1752E-01	3.0839E-01	9.7679E-02	4.1983E-02	3.6070E-01	9.7068E-02
8.000	7.3678E-01	3.1547E-01	1.0030E-01	4.2947E-02	3.7260E-01	1.0018E-01
8.300	7.9586E-01	3.3678E-01	1.0308E-01	4.4806E-02	4.0779E-01	1.0937E-01
8.600	8.5689E-01	3.5813E-01	1.0596E-01	4.6667E-02	4.4146E-01	1.1811E-01
8.900	9.1980E-01	3.7949E-01	1.0892E-01	4.8526E-02	4.7384E-01	1.2636E-01
9.200	9.8455E-01	4.0083E-01	1.1197E-01	5.0381E-02	5.0512E-01	1.3415E-01
9.500	1.0511E+00	4.2211E-01	1.1511E-01	5.2229E-02	5.3549E-01	1.4152E-01
9.800	1.1193E+00	4.4332E-01	1.1832E-01	5.4068E-02	5.6511E-01	1.4851E-01
10.100	1.1892E+00	4.6442E-01	1.2161E-01	5.5895E-02	5.9411E-01	1.5517E-01
10.400	1.2608E+00	4.8541E-01	1.2498E-01	5.7710E-02	6.2263E-01	1.6154E-01
16.000	2.8355E+00	8.5286E-01	1.9916E-01	8.9089E-02	1.1513E+00	2.6264E-01
24.000	5.5197E+00	1.2822E+00	3.2561E-01	1.2467E-01	2.0322E+00	3.7411E-01
96.000	1.6447E+01	2.3785E+00	6.0259E-01	1.6253E-01	3.7199E+00	4.9764E-01
720.000	4.5815E+01	4.5442E+00	8.1828E-01	1.8331E-01	5.9085E+00	6.1781E-01

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
7.8	1.2739E-01	4.2060E-01	1.4199E-01

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Attachment 13.23 – RADTRAD Output File “NMP2MS12.o0”**Effective Efficiency**

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:35:11
#####

#####
File information
#####

Plant file           = C:\radtrad3.03\NMP2\Rev 4\NMP2MS12.psf
Inventory file       = c:\radtrad3.03\nmp2\nmp2.nif
Release file        = c:\radtrad3.03\nmp2\bwr_dba.rft
Dose Conversion file = c:\radtrad3.03\nmp2\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Withount Delay Times - Total MSIV Leakage = 200 scfh, MSIV Leak Rate
Reduction After 24 hrs, Effective Aerosol Removal Efficiency, and CAVEX Core Inventory
Nuclide Inventory File:
c:\radtrad3.03\nmp2\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
```

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```

0
0
Compartment 5:
CR
1
3.8100E+05
0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
Compartment 9:
Intact Outboard Volume 4
3
4.8703E+02
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment (Released to Dummy)
1
3
2

```

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Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2
3
2

Pathway 7:

DW to MSIV Failed Inboard Volume 1

1
6
2

Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Pathway 7)

7
4
2

Pathway 10:

DW to Intact Inboard Volume 3

1
8
2

Pathway 11:

Intact Inboard Volume 3 to Intact Outboard Volume 4

8
9
2

Pathway 12:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:

Intact Outboard Volume 4 to Environment (Pathway 8)

9
4
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
c:\radtrad3.03\nmp2\nmp2.inp
c:\radtrad3.03\nmp2\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

9

Compartment 1:

0

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```

1
1
0.0000E+00
5
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  0.0000E+00
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
5
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  1.9800E+01
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
Compartment 4:
0
1
0
0
0
0
0
0
0
0
Compartment 5:
1
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Compartment 6:
0
1
0
0

```

CALCULATION NO. H21C-106

REV. No. 4

PAGE NO. 948

0
0
0
0
0
Compartment 7:

0
1
0
0
0
0
0
0
0
0

Compartment 8:

0
1
0
0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15
Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

0

Pathway 3:

0
0

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 949
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```

0
0
0
1
4
0.0000E+00  1.0280E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  2.7500E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  1.3800E+00  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

```

0
0
0
0
0
0

```

Pathway 4:

```

0
0
0
0
0
1
4
0.0000E+00  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
8.3300E-02  1.4600E+00  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  7.3000E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

```

0
0
0
0
0
0

```

Pathway 5:

```

0
0
0
0
0
1
5
0.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
8.0000E+00  2.4930E-01  7.3050E+01  5.0000E+01  0.0000E+00
2.4000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
9.6000E+01  1.2470E-01  7.3050E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

```

0
0
0
0
0
0

```

Pathway 6:

```

0
0
0
0
0
1
5
0.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.1200E-02  8.5610E+01  5.0000E+01  0.0000E+00
2.4000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
9.6000E+01  5.6000E-03  8.5610E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

```

0
0
0
0
0
0

```

Pathway 7:

```

0
0

```

0				
0				
0				
1				
3				
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 8:				
0				
0				
0				
0				
0				
1				
5				
0.0000E+00	6.7600E-01	9.6610E+01	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	9.6610E+01	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	9.6610E+01	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	9.6610E+01	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 9:				
0				
0				
0				
0				
0				
1				
5				
0.0000E+00	1.6670E+00	9.4310E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.4310E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.4310E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.4310E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 10:				
0				
0				
0				
0				
0				
1				
3				
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0				
0				
0				
0				
0				
0				
Pathway 11:				
0				
0				
0				
0				

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0
1
5
0.0000E+00 6.7600E-01 9.5080E+01 0.0000E+00 0.0000E+00
8.0000E+00 6.7600E-01 9.5080E+01 0.0000E+00 0.0000E+00
2.4000E+01 3.3800E-01 9.5080E+01 0.0000E+00 0.0000E+00
9.6000E+01 3.3800E-01 9.5080E+01 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
3
0.0000E+00 7.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6700E-02 1.3500E+03 9.9000E+01 9.9000E+01 9.9000E+01
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 13:
0
0
0
0
0
1
7
0.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
4.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.0000E+00 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
1.6000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 2.5000E+02 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
1
3
0.0000E+00 1.0000E+03 1.0000E+02 1.0000E+02 1.0000E+02
1.6700E-02 1.6000E+03 1.0000E+02 1.0000E+02 1.0000E+02
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
0
0
0
0
0
0
Pathway 15:
0
0
0
0

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```

0
1
5
0.0000E+00  1.6670E+00  9.5310E+01  5.0000E+01  0.0000E+00
8.0000E+00  1.6670E+00  9.5310E+01  5.0000E+01  0.0000E+00
2.4000E+01  8.3300E-01  9.5310E+01  5.0000E+01  0.0000E+00
9.6000E+01  8.3300E-01  9.5310E+01  5.0000E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
Dose Locations:
3
Location 1:
EAB
4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
0
Location 2:
LPZ
4
1
5
0.0000E+00  1.6200E-05
8.0000E+00  1.0900E-05
2.4000E+01  4.5900E-06
9.6000E+01  1.3300E-06
7.2000E+02  0.0000E+00
1
4
0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00
0
Location 3:
CR
5
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00
1
4
0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00
Effective Volume Location:
1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00
Simulation Parameters:
7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00

```

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2.4000E+01 2.0000E+00

9.6000E+01 5.0000E+00

7.2000E+02 0.0000E+00

Output Filename:

C:\radtrad3.o643

1

1

1

0

0

End of Scenario File

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```
#####
RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:35:11
#####
```

```
#####
Plant Description
#####
```

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW

Exit Pathway Number 1: DW to WW

Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)

Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1

Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW

Exit Pathway Number 2: WW to DW

Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)

Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)

Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)

Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du

Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Exit Pathway Number 12: CR Filtered Intake (Pathway 9)

Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)

Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

Compartment number 6

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Name: MSIV Failed Inboard Volume 1
Compartment volume = 3.9068E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
Inlet Pathway Number 10: DW to Intact Inboard Volume 3
Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Outboard Volume 4
Compartment volume = 4.8703E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 9
Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 3/27/2020 at 9:35:11
 #####
 #####
 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+01
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00

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2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	5.0000E+01	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	5.0000E+01	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	9.6610E+01	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	9.6610E+01	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	9.6610E+01	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	9.6610E+01	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.4310E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.4310E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.4310E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.4310E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

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Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	9.5080E+01	0.0000E+00	0.0000E+00
8.0000E+00	6.7600E-01	9.5080E+01	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	9.5080E+01	0.0000E+00	0.0000E+00
9.6000E+01	3.3800E-01	9.5080E+01	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.5310E+01	5.0000E+01	0.0000E+00
8.0000E+00	1.6670E+00	9.5310E+01	5.0000E+01	0.0000E+00
2.4000E+01	8.3300E-01	9.5310E+01	5.0000E+01	0.0000E+00
9.6000E+01	8.3300E-01	9.5310E+01	5.0000E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06

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9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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 Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7889E-11	4.1341E-10	4.1307E-11	
Accumulated dose (rem)	2.7889E-11	4.1341E-10	4.1307E-11	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7966E-12	5.6279E-11	5.6233E-12	
Accumulated dose (rem)	3.7966E-12	5.6279E-11	5.6233E-12	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5495E-14	3.4988E-12	1.2908E-13	
Accumulated dose (rem)	1.5495E-14	3.4988E-12	1.2908E-13	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-85m	5.4273E-11	6.5949E-21	4.6724E+04	5.6742E+01	
Kr-85	2.7505E-12	7.0171E-18	4.9716E+07	2.8736E+00	
Kr-87	1.0879E-10	3.8406E-21	2.6584E+04	1.1394E+02	
Kr-88	1.4855E-10	1.1847E-20	8.1073E+04	1.5537E+02	
I-131	4.5057E-12	3.6343E-20	1.6707E+05	4.7075E+00	
I-133	9.3380E-12	8.2432E-21	3.7325E+04	9.7575E+00	
I-135	8.8142E-12	2.5098E-21	1.1196E+04	9.2131E+00	
Xe-133	3.3649E-10	1.7976E-18	8.1396E+06	3.5156E+02	
Xe-133m	1.0320E-11	2.3442E-20	1.0614E+05	1.0783E+01	
Xe-135	1.4144E-10	5.5386E-20	2.4707E+05	1.4776E+02	
Xe-138	2.8749E-10	2.9962E-21	1.3075E+04	3.0435E+02	
Cs-134	7.9238E-14	6.1243E-20	2.7523E+05	8.2785E-02	
Cs-137	6.1517E-14	7.0724E-19	3.1088E+06	6.4271E-02	

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	5.8388E+07	0.0000E+00	
Elemental I (atoms)	1.9237E+05	0.0000E+00	
Organic I (atoms)	1.1899E+04	0.0000E+00	
Aerosols (kg)	7.7234E-19	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.8993E-22	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	7.5550E-22	
Total I (Ci)		3.9765E-11	

	Deposition	Recirculating
Time (h) =	0.0167	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3815E+07
Elemental I (atoms)	0.0000E+00	1.4438E+05
Organic I (atoms)	0.0000E+00	8.9309E+03
Aerosols (kg)	0.0000E+00	5.7954E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4605E+07
Elemental I (atoms)	0.0000E+00	4.8128E+04
Organic I (atoms)	0.0000E+00	2.9770E+03
Aerosols (kg)	0.0000E+00	1.9318E-19

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	3.2874E+04	0.0000E+00
Elemental I (atoms)	1.0833E+02	0.0000E+00
Organic I (atoms)	6.7008E+00	0.0000E+00
Aerosols (kg)	4.3483E-22	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6022E-08	2.5406E-07	2.4267E-08
Accumulated dose (rem)		1.6050E-08	2.5448E-07	2.4308E-08

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1812E-09	3.4587E-08	3.3035E-09
Accumulated dose (rem)		2.1850E-09	3.4643E-08	3.3091E-09

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.1903E-11	2.2485E-09	1.2562E-10
Accumulated dose (rem)		5.1919E-11	2.2520E-09	1.2575E-10

CR Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-83m		2.2995E-08	1.1328E-18	8.2190E+06	6.6240E+04
Kr-85m		5.2729E-08	6.4073E-18	4.5395E+07	1.5139E+05
Kr-85		2.6999E-09	6.8881E-15	4.8801E+10	7.7332E+03
Kr-87		1.0298E-07	3.6356E-18	2.5165E+07	2.9744E+05
Kr-88		1.4347E-07	1.1442E-17	7.8299E+07	4.1247E+05
Rb-86		1.2850E-13	1.5793E-21	1.1059E+04	3.7279E-01
Rb-88		7.1610E-09	5.9321E-20	4.0595E+05	1.0457E+04
I-131		7.3062E-10	5.8933E-18	2.7092E+07	2.1196E+03
I-132		1.0416E-09	1.0091E-19	4.6037E+05	3.0340E+03
I-133		1.5112E-09	1.3340E-18	6.0404E+06	4.3862E+03
I-134		1.6276E-09	6.1012E-20	2.7420E+05	4.7809E+03
I-135		1.4197E-09	4.0425E-19	1.8033E+06	4.1251E+03
Xe-133		3.3025E-07	1.7643E-15	7.9888E+09	9.4596E+05
Xe-133m		1.0127E-08	2.3002E-17	1.0415E+08	2.9009E+04
Xe-135		1.3927E-07	5.4537E-17	2.4328E+08	3.9872E+05
Xe-135m		5.9792E-08	6.5682E-19	2.9300E+06	1.7625E+05
Xe-138		2.3219E-07	2.4199E-18	1.0560E+07	6.9605E+05
Cs-134		1.2852E-11	9.9332E-18	4.4641E+07	3.7282E+01
Cs-136		3.9205E-12	5.3493E-20	2.3687E+05	1.1374E+01
Cs-137		9.9777E-12	1.1471E-16	5.0423E+08	2.8945E+01

CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)		5.7308E+10	0.0000E+00
Elemental I (atoms)		3.1154E+07	0.0000E+00
Organic I (atoms)		1.9270E+06	0.0000E+00
Aerosols (kg)		1.2532E-16	0.0000E+00

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Dose Effective (Ci/cc)	I-131 (Thyroid)	9.5570E-20
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.2216E-19
Total I (Ci)		6.3307E-09

	Deposition	Recirculating
Time (h) =	0.0833	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	5.5538E+04
Organic I (atoms)	0.0000E+00	3.4353E+03
Aerosols (kg)	0.0000E+00	2.2328E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8554E+10
Elemental I (atoms)	1.5808E+08	1.7411E+06
Organic I (atoms)	9.7779E+06	1.0770E+05
Aerosols (kg)	6.3528E-16	6.9965E-18

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9979E+09
Elemental I (atoms)	0.0000E+00	2.9617E+07
Organic I (atoms)	0.0000E+00	1.8320E+06
Aerosols (kg)	0.0000E+00	1.1903E-16

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	2.4079E+08	0.0000E+00
Elemental I (atoms)	1.3308E+05	0.0000E+00
Organic I (atoms)	8.2319E+03	0.0000E+00
Aerosols (kg)	5.3503E-19	0.0000E+00

EAB Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2438E-06	6.3667E-05	5.3083E-06
Accumulated dose (rem)		3.2599E-06	6.3922E-05	5.3326E-06

LPZ Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4160E-07	8.6673E-06	7.2264E-07
Accumulated dose (rem)		4.4378E-07	8.7019E-06	7.2595E-07

CR Doses:

Time (h) =	0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.0777E-08	2.1500E-06	1.1312E-07
Accumulated dose (rem)		4.0829E-08	2.1523E-06	1.1325E-07

CR Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Kr-83m	5.2174E-06	2.5702E-16	1.8649E+09	5.1154E+07
Kr-85m	1.2634E-05	1.5352E-15	1.0877E+10	1.2233E+08
Kr-85	6.7243E-07	1.7155E-12	1.2154E+13	6.4536E+06
Kr-87	2.2380E-05	7.9010E-16	5.4691E+09	2.2163E+08
Kr-88	3.3617E-05	2.6809E-15	1.8346E+10	3.2716E+08
Rb-86	3.1667E-11	3.8918E-19	2.7252E+06	3.0430E+02
Rb-88	5.0909E-06	4.2172E-17	2.8860E+08	3.6014E+07
I-131	1.7995E-07	1.4515E-15	6.6728E+09	1.7294E+06
I-132	2.4168E-07	2.3414E-17	1.0682E+08	2.3552E+06
I-133	3.6945E-07	3.2614E-16	1.4767E+09	3.5566E+06
I-134	3.2927E-07	1.2343E-17	5.5471E+07	3.3118E+06
I-135	3.4092E-07	9.7076E-17	4.3304E+08	3.2953E+06
Xe-133	8.2208E-05	4.3919E-13	1.9886E+12	7.8910E+08
Xe-133m	2.5187E-06	5.7211E-15	2.5905E+10	2.4182E+07
Xe-135	3.5047E-05	1.3724E-14	6.1221E+10	3.3574E+08

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Xe-135m	1.0488E-05	1.1521E-16	5.1392E+08	1.0961E+08
Xe-138	2.7807E-05	2.8980E-16	1.2646E+09	3.1849E+08
Cs-134	3.1683E-09	2.4487E-15	1.1005E+10	3.0442E+04
Cs-136	9.6598E-10	1.3180E-17	5.8362E+07	9.2827E+03
Cs-137	2.4597E-09	2.8279E-14	1.2431E+11	2.3634E+04

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)	1.4268E+13	0.0000E+00	
Elemental I (atoms)	7.6376E+09	0.0000E+00	
Organic I (atoms)	4.7243E+08	0.0000E+00	
Aerosols (kg)	3.0922E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.3459E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.9790E-17	
Total I (Ci)		1.4613E-06	

		Deposition	Recirculating
Time (h) =	0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	5.4064E+07	
Organic I (atoms)	0.0000E+00	3.3442E+06	
Aerosols (kg)	0.0000E+00	2.1854E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2244E+13	
Elemental I (atoms)	3.9732E+10	4.0148E+08	
Organic I (atoms)	2.4576E+09	2.4834E+07	
Aerosols (kg)	1.6038E-13	1.6206E-15	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2674E+12	
Elemental I (atoms)	0.0000E+00	7.4321E+09	
Organic I (atoms)	0.0000E+00	4.5972E+08	
Aerosols (kg)	0.0000E+00	3.0001E-14	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	2.4123E+11	0.0000E+00	
Elemental I (atoms)	1.2945E+08	0.0000E+00	
Organic I (atoms)	8.0070E+06	0.0000E+00	
Aerosols (kg)	5.2324E-16	0.0000E+00	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1255E-05	2.3932E-04	1.9010E-05
Accumulated dose (rem)		1.4515E-05	3.0324E-04	2.4343E-05

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5323E-06	3.2580E-05	2.5880E-06
Accumulated dose (rem)		1.9760E-06	4.1281E-05	3.3139E-06

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3129E-07	1.3548E-05	6.9470E-07
Accumulated dose (rem)		2.7212E-07	1.5700E-05	8.0795E-07

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m		2.4358E-05	1.1999E-15	8.7063E+09	3.5502E+08
Kr-85m		6.1165E-05	7.4324E-15	5.2658E+10	8.7491E+08
Kr-85		3.3405E-06	8.5224E-12	6.0380E+13	4.7157E+07

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Kr-87	1.0152E-04	3.5841E-15	2.4809E+10	1.5021E+09
Kr-88	1.6034E-04	1.2787E-14	8.7508E+10	2.3112E+09
Rb-86	1.4810E-10	1.8202E-18	1.2746E+07	2.1696E+03
Rb-88	3.3585E-05	2.7821E-16	1.9039E+09	3.6938E+08
I-131	8.4400E-07	6.8079E-15	3.1296E+10	1.2342E+07
I-132	1.0880E-06	1.0540E-16	4.8087E+08	1.6259E+07
I-133	1.7242E-06	1.5220E-15	6.8916E+09	2.5277E+07
I-134	1.3544E-06	5.0771E-17	2.2817E+08	2.1228E+07
I-135	1.5721E-06	4.4766E-16	1.9970E+09	2.3191E+07
Xe-133	4.0825E-04	2.1810E-12	9.8755E+12	5.7643E+09
Xe-133m	1.2501E-05	2.8395E-14	1.2857E+11	1.7657E+08
Xe-135	1.7502E-04	6.8534E-14	3.0572E+11	2.4653E+09
Xe-135m	4.1802E-05	4.5920E-16	2.0484E+09	6.6874E+08
Xe-138	8.4777E-05	8.8353E-16	3.8556E+09	1.5710E+09
Cs-134	1.4822E-08	1.1456E-14	5.1483E+10	2.1710E+05
Cs-136	4.5173E-09	6.1635E-17	2.7292E+08	6.6180E+04
Cs-137	1.1507E-08	1.3229E-13	5.8152E+11	1.6855E+05

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump	
Noble gases (atoms)	7.0869E+13	0.0000E+00		
Elemental I (atoms)	3.5604E+10	0.0000E+00		
Organic I (atoms)	2.3307E+09	0.0000E+00		
Aerosols (kg)	1.4474E-13	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0978E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.3885E-16	
Total I (Ci)			6.5827E-06	

Deposition Recirculating

Time (h) =	0.5000	Surfaces	Filter	
Noble gases (atoms)	0.0000E+00	0.0000E+00		
Elemental I (atoms)	0.0000E+00	3.9404E+08		
Organic I (atoms)	0.0000E+00	2.4856E+07		
Aerosols (kg)	0.0000E+00	1.5982E-15		

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1330E+13	
Elemental I (atoms)	1.8780E+11	1.8972E+09	
Organic I (atoms)	1.2277E+10	1.2402E+08	
Aerosols (kg)	7.6019E-13	7.6793E-15	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1357E+13	
Elemental I (atoms)	0.0000E+00	3.5130E+10	
Organic I (atoms)	0.0000E+00	2.2965E+09	
Aerosols (kg)	0.0000E+00	1.4220E-13	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	0.5000	Filtered	Transported
Noble gases (atoms)	1.8032E+12	0.0000E+00	
Elemental I (atoms)	9.4347E+08	0.0000E+00	
Organic I (atoms)	5.9512E+07	0.0000E+00	
Aerosols (kg)	3.8265E-15	0.0000E+00	

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8509E-03	2.0709E-02	5.5260E-03
Accumulated dose (rem)		4.8654E-03	2.1012E-02	5.5504E-03

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.6037E-04	2.8192E-03	7.5228E-04
Accumulated dose (rem)		6.6235E-04	2.8604E-03	7.5559E-04

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CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.3831E-04	4.7458E-03	6.0290E-04
Accumulated dose (rem)		3.3858E-04	4.7615E-03	6.0371E-04

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m		8.3669E-03	4.1218E-13	2.9906E+12	4.9736E+11
Kr-85m		2.9134E-02	3.5402E-12	2.5082E+13	1.6165E+12
Kr-85		2.0068E-03	5.1199E-09	3.6274E+16	1.0624E+11
Kr-87		2.6926E-02	9.5059E-13	6.5800E+12	1.6944E+12
Kr-88		6.6795E-02	5.3269E-12	3.6454E+13	3.8108E+12
Rb-86		6.9211E-09	8.5059E-17	5.9563E+08	5.6950E+05
Rb-88		3.9896E-02	3.3049E-13	2.2616E+12	1.3378E+12
Sr-89		9.4923E-08	3.2673E-15	2.2108E+10	5.4606E+06
Sr-90		1.0166E-08	7.4528E-14	4.9868E+11	5.8472E+05
Sr-91		1.0123E-07	2.7925E-17	1.8480E+08	5.9563E+06
Sr-92		7.2713E-08	5.7849E-18	3.7867E+07	4.5361E+06
Y-90		2.2826E-10	4.1954E-19	2.8073E+06	1.1304E+04
Y-91		1.2146E-09	4.9527E-17	3.2776E+08	6.9514E+04
Y-92		1.7874E-08	1.8576E-18	1.2159E+07	8.2552E+05
Y-93		1.1584E-09	3.4720E-19	2.2482E+06	6.8066E+04
Zr-95		1.4049E-09	6.5395E-17	4.1454E+08	8.0815E+04
Zr-97		1.2496E-09	6.5366E-19	4.0582E+06	7.2795E+04
Nb-95		1.3868E-09	3.5465E-17	2.2482E+08	7.9761E+04
Mo-99		1.7380E-08	3.6238E-17	2.2044E+08	1.0029E+06
Tc-99m		1.5614E-08	2.9694E-18	1.8063E+07	8.9342E+05
Ru-103		1.5344E-08	4.7543E-16	2.7797E+09	8.8275E+05
Ru-105		8.0109E-09	1.1917E-18	6.8350E+06	4.8394E+05
Ru-106		6.3874E-09	1.9092E-15	1.0847E+10	3.6739E+05
Rh-105		1.0157E-08	1.2033E-17	6.9014E+07	5.8434E+05
Sb-127		1.7417E-08	6.5219E-17	3.0926E+08	1.0041E+06
Sb-129		3.9633E-08	7.0479E-18	3.2902E+07	2.3976E+06
Te-127		1.7457E-08	6.6146E-18	3.1365E+07	1.0006E+06
Te-127m		2.9905E-09	3.1704E-16	1.5034E+09	1.7200E+05
Te-129		4.4816E-08	2.1400E-18	9.9901E+06	2.5804E+06
Te-129m		9.8078E-09	3.2557E-16	1.5199E+09	5.6411E+05
Te-131m		3.5478E-08	4.4492E-17	2.0453E+08	2.0553E+06
Te-132		2.6190E-07	8.6267E-16	3.9357E+09	1.5105E+07
I-131		5.1669E-05	4.1677E-13	1.9159E+12	3.9192E+09
I-132		4.7239E-05	4.5765E-15	2.0879E+10	3.9343E+09
I-133		1.0093E-04	8.9097E-14	4.0342E+11	7.7513E+09
I-134		2.5458E-05	9.5432E-16	4.2889E+09	2.7735E+09
I-135		8.2666E-05	2.3539E-14	1.0500E+11	6.5429E+09
Xe-133		2.4386E-01	1.3028E-09	5.8991E+15	1.2926E+13
Xe-133m		7.4049E-03	1.6819E-11	7.6157E+13	3.9325E+11
Xe-135		1.0104E-01	3.9567E-11	1.7650E+14	5.4239E+12
Xe-135m		1.7644E-03	1.9382E-14	8.6461E+10	1.8871E+11
Xe-138		6.2955E-04	6.5611E-15	2.8632E+10	1.1598E+11
Cs-134		6.9420E-07	5.3655E-13	2.4113E+12	5.7085E+07
Cs-136		2.1089E-07	2.8775E-15	1.2742E+10	1.7358E+07
Cs-137		5.3899E-07	6.1965E-12	2.7238E+13	4.4321E+07
Ba-139		5.2542E-08	3.2122E-18	1.3917E+07	3.5596E+06
Ba-140		1.3915E-07	1.9008E-15	8.1762E+09	8.0092E+06
La-140		4.0825E-09	7.3450E-18	3.1595E+07	1.9530E+05
La-141		9.2216E-10	1.6306E-19	6.9643E+05	5.6071E+04
La-142		5.2380E-10	3.6591E-20	1.5518E+05	3.4849E+04
Ce-141		3.2987E-09	1.1577E-16	4.9446E+08	1.8976E+05
Ce-143		3.0860E-09	4.6470E-18	1.9570E+07	1.7866E+05
Ce-144		2.6446E-09	8.2916E-16	3.4676E+09	1.5211E+05
Pr-143		1.2643E-09	1.8775E-17	7.9065E+07	7.2643E+04
Nd-147		5.1114E-10	6.3182E-18	2.5884E+07	2.9423E+04
Np-239		3.6728E-08	1.5831E-16	3.9891E+08	2.1205E+06
Pu-238		8.2187E-12	4.8007E-16	1.2147E+09	4.7271E+02
Pu-239		8.2901E-13	1.3337E-14	3.3607E+10	4.7679E+01
Pu-240		1.4641E-12	6.4284E-16	1.6130E+09	8.4213E+01
Pu-241		3.2529E-10	3.2893E-15	8.2193E+09	1.8710E+04
Am-241		1.8407E-13	5.3731E-17	1.3426E+08	1.0586E+01
Cm-242		5.0537E-11	1.5267E-17	3.7991E+07	2.9069E+03
Cm-244		3.3426E-12	4.0838E-17	1.0079E+08	1.9226E+02

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Time (h) =	2.0000	Atmosphere	Sump
Noble gases (atoms)	4.2497E+16	0.0000E+00	
Elemental I (atoms)	1.7239E+12	0.0000E+00	
Organic I (atoms)	5.8230E+11	0.0000E+00	
Aerosols (kg)	7.2008E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.5967E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.1253E-15	
Total I (Ci)		3.0796E-04	

	Deposition	Recirculating
Time (h) =	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0304E+11
Organic I (atoms)	0.0000E+00	2.4578E+10
Aerosols (kg)	0.0000E+00	4.2337E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9016E+16
Elemental I (atoms)	1.0613E+13	1.0720E+11
Organic I (atoms)	3.3999E+12	3.4342E+10
Aerosols (kg)	4.1981E-11	4.2405E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2253E+15
Elemental I (atoms)	0.0000E+00	1.9852E+12
Organic I (atoms)	0.0000E+00	6.3597E+11
Aerosols (kg)	0.0000E+00	7.8528E-12

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	3.7195E+15	0.0000E+00
Elemental I (atoms)	2.4672E+11	0.0000E+00
Organic I (atoms)	5.8847E+10	0.0000E+00
Aerosols (kg)	1.0137E-12	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0644E-03	8.6984E-03	3.3498E-03
Accumulated dose (rem)		7.9298E-03	2.9710E-02	8.9001E-03

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.1717E-04	1.1842E-03	4.5602E-04
Accumulated dose (rem)		1.0795E-03	4.0446E-03	1.2116E-03

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.6718E-04	2.5013E-03	4.6013E-04
Accumulated dose (rem)		6.0577E-04	7.2628E-03	1.0638E-03

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		1.1035E-02	5.4362E-13	3.9443E+12	8.3991E+11
Kr-85m		4.0577E-02	4.9306E-12	3.4933E+13	2.8434E+12
Kr-85		2.9053E-03	7.4120E-09	5.2513E+16	1.9248E+11
Kr-87		3.4015E-02	1.2008E-12	8.3122E+12	2.7726E+12
Kr-88		9.0974E-02	7.2552E-12	4.9650E+13	6.5913E+12
Rb-86		8.1606E-09	1.0029E-16	7.0230E+08	8.2753E+05
Rb-88		6.0886E-02	5.0437E-13	3.4516E+12	2.7056E+12
Sr-89		1.2616E-07	4.3426E-15	2.9384E+10	9.3070E+06
Sr-90		1.3514E-08	9.9070E-14	6.6290E+11	9.9669E+05
Sr-91		1.3213E-07	3.6450E-17	2.4122E+08	1.0020E+07

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Sr-92	9.0671E-08	7.2136E-18	4.7219E+07	7.3871E+06
Y-90	3.3224E-10	6.1066E-19	4.0861E+06	2.0775E+04
Y-91	1.6199E-09	6.6052E-17	4.3712E+08	1.1877E+05
Y-92	2.6221E-08	2.7250E-18	1.7837E+07	1.5598E+06
Y-93	1.5136E-09	4.5368E-19	2.9378E+06	1.1459E+05
Zr-95	1.8673E-09	8.6920E-17	5.5099E+08	1.3774E+05
Zr-97	1.6441E-09	8.6005E-19	5.3395E+06	1.2316E+05
Nb-95	1.8435E-09	4.7144E-17	2.9885E+08	1.3596E+05
Mo-99	2.3043E-08	4.8045E-17	2.9226E+08	1.7063E+06
Tc-99m	2.0746E-08	3.9454E-18	2.4000E+07	1.5228E+06
Ru-103	2.0393E-08	6.3188E-16	3.6944E+09	1.5045E+06
Ru-105	1.0241E-08	1.5235E-18	8.7381E+06	8.0209E+05
Ru-106	8.4906E-09	2.5379E-15	1.4418E+10	6.2623E+05
Rh-105	1.3486E-08	1.5978E-17	9.1639E+07	9.9541E+05
Sb-127	2.3109E-08	8.6534E-17	4.1033E+08	1.7092E+06
Sb-129	5.0613E-08	9.0005E-18	4.2017E+07	3.9707E+06
Te-127	2.3200E-08	8.7910E-18	4.1686E+07	1.7056E+06
Te-127m	3.9754E-09	4.2145E-16	1.9984E+09	2.9319E+05
Te-129	5.8180E-08	2.7781E-18	1.2969E+07	4.3352E+06
Te-129m	1.3037E-08	4.3277E-16	2.0203E+09	9.6154E+05
Te-131m	4.6890E-08	5.8803E-17	2.7032E+08	3.4887E+06
Te-132	3.4738E-07	1.1442E-15	5.2202E+09	2.5706E+07
I-131	6.3477E-05	5.1202E-13	2.3538E+12	5.9000E+09
I-132	5.4926E-05	5.3212E-15	2.4276E+10	5.7004E+09
I-133	1.2307E-04	1.0864E-13	4.9193E+11	1.1606E+10
I-134	2.5689E-05	9.6298E-16	4.3277E+09	3.6571E+09
I-135	9.9016E-05	2.8195E-14	1.2577E+11	9.6712E+09
Xe-133	3.5264E-01	1.8840E-09	8.5304E+15	2.3400E+13
Xe-133m	1.0690E-02	2.4282E-11	1.0995E+14	7.1102E+11
Xe-135	1.4439E-01	5.6541E-11	2.5222E+14	9.7406E+12
Xe-135m	1.5927E-03	1.7496E-14	7.8046E+10	2.5044E+11
Xe-138	4.3824E-04	4.5673E-15	1.9931E+10	1.3483E+11
Cs-134	8.1883E-07	6.3287E-13	2.8442E+12	8.2970E+07
Cs-136	2.4862E-07	3.3922E-15	1.5021E+10	2.5220E+07
Cs-137	6.3576E-07	7.3091E-12	3.2129E+13	6.4419E+07
Ba-139	6.1593E-08	3.7656E-18	1.6314E+07	5.5558E+06
Ba-140	1.8487E-07	2.5253E-15	1.0862E+10	1.3647E+07
La-140	6.0485E-09	1.0882E-17	4.6809E+07	3.6547E+05
La-141	1.1730E-09	2.0741E-19	8.8584E+05	9.2599E+04
La-142	6.2227E-10	4.3470E-20	1.8435E+05	5.4885E+04
Ce-141	4.3844E-09	1.5387E-16	6.5720E+08	3.2343E+05
Ce-143	4.0807E-09	6.1449E-18	2.5878E+07	3.0337E+05
Ce-144	3.5154E-09	1.1022E-15	4.6094E+09	2.5928E+05
Pr-143	1.6816E-09	2.4972E-17	1.0517E+08	1.2388E+05
Nd-147	6.7901E-10	8.3934E-18	3.4385E+07	5.0129E+04
Np-239	4.8673E-08	2.0980E-16	5.2865E+08	3.6065E+06
Pu-238	1.0925E-11	6.3817E-16	1.6148E+09	8.0577E+02
Pu-239	1.1020E-12	1.7730E-14	4.4675E+10	8.1274E+01
Pu-240	1.9463E-12	8.5453E-16	2.1442E+09	1.4355E+02
Pu-241	4.3240E-10	4.3725E-15	1.0926E+10	3.1891E+04
Am-241	2.4471E-13	7.1430E-17	1.7849E+08	1.8046E+01
Cm-242	6.7176E-11	2.0293E-17	5.0500E+07	4.9548E+03
Cm-244	4.4434E-12	5.4286E-17	1.3398E+08	3.2772E+02

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	6.1503E+16	0.0000E+00	
Elemental I (atoms)	2.0404E+12	0.0000E+00	
Organic I (atoms)	7.9003E+11	0.0000E+00	
Aerosols (kg)	8.6237E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	8.0809E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	9.9205E-15	
Total I (Ci)		3.6618E-04	

	Deposition	Recirculating
Time (h) =	2.2500	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.5248E+11
Organic I (atoms)	0.0000E+00	4.2486E+10
Aerosols (kg)	0.0000E+00	6.3015E-13

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7801E+16	
Elemental I (atoms)	1.3110E+13	1.3242E+11	
Organic I (atoms)	4.7768E+12	4.8251E+10	
Aerosols (kg)	5.1712E-11	5.2234E-13	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0704E+16	
Elemental I (atoms)	0.0000E+00	2.4523E+12	
Organic I (atoms)	0.0000E+00	8.9354E+11	
Aerosols (kg)	0.0000E+00	9.6730E-12	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	6.9566E+15	0.0000E+00	
Elemental I (atoms)	3.6508E+11	0.0000E+00	
Organic I (atoms)	1.0173E+11	0.0000E+00	
Aerosols (kg)	1.5088E-12	0.0000E+00	

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3131E-03	6.1617E-03	2.5155E-03	
Accumulated dose (rem)	1.0243E-02	3.5872E-02	1.1416E-02	

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1489E-04	8.3882E-04	3.4245E-04	
Accumulated dose (rem)	1.3944E-03	4.8834E-03	1.5541E-03	

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0599E-04	1.7658E-03	3.5547E-04	
Accumulated dose (rem)	8.1175E-04	9.0285E-03	1.4193E-03	

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m	1.2991E-02	6.3997E-13	4.6433E+12	1.0943E+12	
Kr-85m	4.9356E-02	5.9974E-12	4.2491E+13	3.7946E+12	
Kr-85	3.6168E-03	9.2273E-09	6.5374E+16	2.6138E+11	
Kr-87	3.9021E-02	1.3776E-12	9.5356E+12	3.5467E+12	
Kr-88	1.0918E-01	8.7073E-12	5.9587E+13	8.7094E+12	
Rb-86	8.9933E-09	1.1053E-16	7.7396E+08	1.0034E+06	
Rb-88	7.4948E-02	6.2086E-13	4.2488E+12	3.8426E+12	
Sr-89	1.4865E-07	5.1165E-15	3.4620E+10	1.2173E+07	
Sr-90	1.5923E-08	1.1673E-13	7.8110E+11	1.3037E+06	
Sr-91	1.5399E-07	4.2481E-17	2.8113E+08	1.3005E+07	
Sr-92	1.0282E-07	8.1798E-18	5.3543E+07	9.4077E+06	
Y-90	4.1172E-10	7.5675E-19	5.0636E+06	2.8356E+04	
Y-91	1.9123E-09	7.7978E-17	5.1604E+08	1.5558E+05	
Y-92	3.2420E-08	3.3693E-18	2.2055E+07	2.1506E+06	
Y-93	1.7652E-09	5.2910E-19	3.4261E+06	1.4880E+05	
Zr-95	2.2001E-09	1.0241E-16	6.4919E+08	1.8017E+05	
Zr-97	1.9254E-09	1.0072E-18	6.2530E+06	1.6040E+05	
Nb-95	2.1722E-09	5.5550E-17	3.5214E+08	1.7784E+05	
Mo-99	2.7109E-08	5.6523E-17	3.4382E+08	2.2294E+06	
Tc-99m	2.4437E-08	4.6473E-18	2.8270E+07	1.9919E+06	
Ru-103	2.4027E-08	7.4446E-16	4.3526E+09	1.9678E+06	
Ru-105	1.1788E-08	1.7536E-18	1.0058E+07	1.0320E+06	
Ru-106	1.0004E-08	2.9903E-15	1.6989E+10	8.1914E+05	
Rh-105	1.5879E-08	1.8813E-17	1.0790E+08	1.3015E+06	
Sb-127	2.7199E-08	1.0185E-16	4.8295E+08	2.2340E+06	
Sb-129	5.8219E-08	1.0353E-17	4.8331E+07	5.1068E+06	
Te-127	2.7333E-08	1.0357E-17	4.9111E+07	2.2311E+06	
Te-127m	4.6842E-09	4.9659E-16	2.3548E+09	3.8351E+05	
Te-129	6.7540E-08	3.2250E-18	1.5056E+07	5.6207E+06	

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Te-129m	1.5361E-08	5.0992E-16	2.3805E+09	1.2577E+06
Te-131m	5.5059E-08	6.9048E-17	3.1742E+08	4.5522E+06
Te-132	4.0877E-07	1.3464E-15	6.1427E+09	3.3594E+07
I-131	7.1875E-05	5.7975E-13	2.6652E+12	7.2976E+09
I-132	6.0249E-05	5.8368E-15	2.6629E+10	6.8946E+09
I-133	1.3873E-04	1.2247E-13	5.5452E+11	1.4309E+10
I-134	2.5848E-05	9.6893E-16	4.3545E+09	4.1903E+09
I-135	1.1042E-04	3.1443E-14	1.4026E+11	1.1835E+10
Xe-133	4.3871E-01	2.3438E-09	1.0612E+16	3.1761E+13
Xe-133m	1.3287E-02	3.0180E-11	1.3665E+14	9.6438E+11
Xe-135	1.7838E-01	6.9851E-11	3.1160E+14	1.3155E+13
Xe-135m	1.5131E-03	1.6621E-14	7.4145E+10	2.8472E+11
Xe-138	3.5161E-04	3.6644E-15	1.5991E+10	1.4321E+11
Cs-134	9.0259E-07	6.9761E-13	3.1352E+12	1.0062E+08
Cs-136	2.7396E-07	3.7380E-15	1.6552E+10	3.0579E+07
Cs-137	7.0080E-07	8.0568E-12	3.5415E+13	7.8125E+07
Ba-139	6.7302E-08	4.1146E-18	1.7826E+07	6.9032E+06
Ba-140	2.1776E-07	2.9745E-15	1.2795E+10	1.7846E+07
La-140	7.5628E-09	1.3606E-17	5.8528E+07	5.0358E+05
La-141	1.3460E-09	2.3801E-19	1.0165E+06	1.1890E+05
La-142	6.8540E-10	4.7880E-20	2.0305E+05	6.8551E+04
Ce-141	5.1657E-09	1.8129E-16	7.7431E+08	4.2304E+05
Ce-143	4.7931E-09	7.2177E-18	3.0396E+07	3.9594E+05
Ce-144	4.1421E-09	1.2987E-15	5.4311E+09	3.3915E+05
Pr-143	1.9821E-09	2.9435E-17	1.2396E+08	1.6208E+05
Nd-147	7.9976E-10	9.8860E-18	4.0500E+07	6.5554E+04
Np-239	5.7246E-08	2.4676E-16	6.2176E+08	4.7113E+06
Pu-238	1.2873E-11	7.5195E-16	1.9027E+09	1.0540E+03
Pu-239	1.2986E-12	2.0892E-14	5.2642E+10	1.0631E+02
Pu-240	2.2933E-12	1.0069E-15	2.5265E+09	1.8777E+02
Pu-241	5.0950E-10	5.1521E-15	1.2874E+10	4.1716E+04
Am-241	2.8835E-13	8.4169E-17	2.1032E+08	2.3606E+01
Cm-242	7.9151E-11	2.3911E-17	5.9502E+07	6.4810E+03
Cm-244	5.2356E-12	6.3965E-17	1.5787E+08	4.2867E+02

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	7.6552E+16	0.0000E+00	
Elemental I (atoms)	2.2541E+12	0.0000E+00	
Organic I (atoms)	9.4945E+11	0.0000E+00	
Aerosols (kg)	9.5813E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.1344E-15	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.1193E-14	
Total I (Ci)		4.0713E-04	

Deposition Recirculating			
Time (h) =	2.4000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.8638E+11	
Organic I (atoms)	0.0000E+00	5.6190E+10	
Aerosols (kg)	0.0000E+00	7.7316E-13	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Pathway			
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2705E+16	
Elemental I (atoms)	1.4804E+13	1.4954E+11	
Organic I (atoms)	5.8326E+12	5.8915E+10	
Aerosols (kg)	5.8304E-11	5.8893E-13	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Pathway			
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3464E+16	
Elemental I (atoms)	0.0000E+00	2.7692E+12	
Organic I (atoms)	0.0000E+00	1.0910E+12	
Aerosols (kg)	0.0000E+00	1.0906E-11	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

Pathway			
Time (h) =	2.4000	Filtered	Transported

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Noble gases (atoms)	9.5568E+15	0.0000E+00
Elemental I (atoms)	4.4625E+11	0.0000E+00
Organic I (atoms)	1.3454E+11	0.0000E+00
Aerosols (kg)	1.8512E-12	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.5932E-02	1.0932E-01	4.9534E-02
Accumulated dose (rem)		5.6175E-02	1.4519E-01	6.0949E-02

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.2529E-03	1.4882E-02	6.7432E-03
Accumulated dose (rem)		7.6473E-03	1.9765E-02	8.2973E-03

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.6700E-03	3.7124E-02	9.7518E-03
Accumulated dose (rem)		6.4818E-03	4.6152E-02	1.1171E-02

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		4.0115E-02	1.9762E-12	1.4338E+13	6.9806E+12
Kr-85m		2.1600E-01	2.6246E-11	1.8595E+14	3.1345E+13
Kr-85		2.0275E-02	5.1725E-08	3.6647E+17	2.6153E+12
Kr-87		9.1445E-02	3.2284E-12	2.2347E+13	1.8637E+13
Kr-88		4.1417E-01	3.3030E-11	2.2604E+14	6.4599E+13
Rb-86		1.9952E-08	2.4520E-16	1.7170E+09	4.1205E+06
Rb-88		3.4801E-01	2.8828E-12	1.9728E+13	3.8452E+13
Sr-89		4.8678E-07	1.6755E-14	1.1337E+11	7.9943E+07
Sr-90		5.2193E-08	3.8262E-13	2.5602E+12	8.5673E+06
Sr-91		4.4914E-07	1.2390E-16	8.1994E+08	7.8607E+07
Sr-92		2.2382E-07	1.7807E-17	1.1656E+08	4.6480E+07
Y-90		2.1272E-09	3.9099E-18	2.6162E+07	2.7458E+05
Y-91		6.4011E-09	2.6102E-16	1.7273E+09	1.0380E+06
Y-92		1.4284E-07	1.4845E-17	9.7171E+07	1.9890E+07
Y-93		5.1843E-09	1.5539E-18	1.0062E+07	9.0383E+05
Zr-95		7.2061E-09	3.3543E-16	2.1263E+09	1.1833E+06
Zr-97		5.9101E-09	3.0916E-18	1.9194E+07	1.0055E+06
Nb-95		7.1199E-09	1.8208E-16	1.1542E+09	1.1687E+06
Mo-99		8.7376E-08	1.8218E-16	1.1082E+09	1.4474E+07
Tc-99m		7.9740E-08	1.5165E-17	9.2246E+07	1.3049E+07
Ru-103		7.8661E-08	2.4373E-15	1.4250E+10	1.2920E+07
Ru-105		3.0098E-08	4.4775E-18	2.5680E+07	5.6831E+06
Ru-106		3.2788E-08	9.8003E-15	5.5678E+10	5.3824E+06
Rh-105		5.1497E-08	6.1012E-17	3.4992E+08	8.4980E+06
Sb-127		8.8087E-08	3.2985E-16	1.5641E+09	1.4553E+07
Sb-129		1.4762E-07	2.6251E-17	1.2255E+08	2.7987E+07
Te-127		8.9417E-08	3.3881E-17	1.6066E+08	1.4641E+07
Te-127m		1.5354E-08	1.6277E-15	7.7185E+09	2.5202E+06
Te-129		1.8639E-07	8.9003E-18	4.1549E+07	3.2873E+07
Te-129m		5.0333E-08	1.6708E-15	7.7997E+09	8.2635E+06
Te-131m		1.7392E-07	2.1811E-16	1.0027E+09	2.9127E+07
Te-132		1.3210E-06	4.3511E-15	1.9851E+10	2.1850E+08
I-131		2.1041E-04	1.6972E-12	7.8020E+12	3.6899E+10
I-132		1.2365E-04	1.1979E-14	5.4650E+10	2.7293E+10
I-133		3.8719E-04	3.4179E-13	1.5476E+12	6.9876E+10
I-134		2.1474E-05	8.0497E-16	3.6177E+09	9.6210E+09
I-135		2.7485E-04	7.8263E-14	3.4912E+11	5.3238E+10
Xe-133		2.4406E+00	1.3038E-08	5.9037E+16	3.1594E+14
Xe-133m		7.3106E-02	1.6605E-10	7.5188E+14	9.5128E+12
Xe-135		9.0815E-01	3.5562E-10	1.5864E+15	1.2275E+14
Xe-135m		5.5467E-04	6.0931E-15	2.7180E+10	5.1508E+11
Xe-138		1.8178E-05	1.8945E-16	8.2673E+08	1.7095E+11
Cs-134		2.0072E-06	1.5514E-12	6.9722E+12	4.1389E+08
Cs-136		6.0715E-07	8.2841E-15	3.6682E+10	1.2548E+08
Cs-137		1.5586E-06	1.7918E-11	7.8763E+13	3.2136E+08
Ba-139		9.8665E-08	6.0320E-18	2.6133E+07	2.6482E+07
Ba-140		7.1118E-07	9.7144E-15	4.1787E+10	1.1697E+08
La-140		4.1425E-08	7.4528E-17	3.2058E+08	5.2041E+06

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La-141	3.3271E-09	5.8831E-19	2.5127E+06	6.4025E+05
La-142	1.0942E-09	7.6438E-20	3.2417E+05	2.7716E+05
Ce-141	1.6915E-08	5.9363E-16	2.5354E+09	2.7780E+06
Ce-143	1.5192E-08	2.2876E-17	9.6338E+07	2.5395E+06
Ce-144	1.3575E-08	4.2560E-15	1.7799E+10	2.2284E+06
Pr-143	6.5238E-09	9.6881E-17	4.0799E+08	1.0682E+06
Nd-147	2.6104E-09	3.2268E-17	1.3219E+08	4.2947E+05
Np-239	1.8399E-07	7.9310E-16	1.9984E+09	3.0524E+07
Pu-238	4.2195E-11	2.4647E-15	6.2365E+09	6.9262E+03
Pu-239	4.2574E-12	6.8494E-14	1.7259E+11	6.9874E+02
Pu-240	7.5170E-12	3.3004E-15	8.2813E+09	1.2339E+03
Pu-241	1.6700E-09	1.6887E-14	4.2198E+10	2.7413E+05
Am-241	9.4560E-13	2.7602E-16	6.8972E+08	1.5517E+02
Cm-242	2.5936E-10	7.8352E-17	1.9498E+08	4.2580E+04
Cm-244	1.7161E-11	2.0966E-16	5.1746E+08	2.8170E+03

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump	
Noble gases (atoms)		4.2829E+17	0.0000E+00	
Elemental I (atoms)		5.0470E+12	0.0000E+00	
Organic I (atoms)		4.2892E+12	0.0000E+00	
Aerosols (kg)		2.2981E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.6284E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.1661E-14	
Total I (Ci)			1.0176E-03	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.9428E+11
Organic I (atoms)	0.0000E+00	4.5605E+11
Aerosols (kg)	0.0000E+00	3.4441E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.4555E+17
Elemental I (atoms)	3.9877E+13	4.0280E+11
Organic I (atoms)	2.9950E+13	3.0253E+11
Aerosols (kg)	1.5649E-10	1.5807E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.2509E+16
Elemental I (atoms)	0.0000E+00	7.4593E+12
Organic I (atoms)	0.0000E+00	5.6024E+12
Aerosols (kg)	0.0000E+00	2.9273E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	9.9208E+16	0.0000E+00
Elemental I (atoms)	1.9018E+12	0.0000E+00
Organic I (atoms)	1.0919E+12	0.0000E+00
Aerosols (kg)	8.2463E-12	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1699E-01	5.9210E-01	2.3625E-01
Accumulated dose (rem)		2.7316E-01	7.3729E-01	2.9720E-01

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9540E-02	8.0606E-02	3.2162E-02
Accumulated dose (rem)		3.7187E-02	1.0037E-01	4.0459E-02

CR Doses:

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Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.0324E-02	3.1244E-01	8.7817E-02
Accumulated dose (rem)		5.6806E-02	3.5859E-01	9.8988E-02

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m		5.8087E-02	2.8615E-12	2.0762E+13	3.7937E+13
Kr-85m		7.4785E-01	9.0874E-11	6.4383E+14	3.0215E+14
Kr-85		1.3035E-01	3.3255E-07	2.3561E+18	3.9745E+13
Kr-87		6.6439E-02	2.3456E-12	1.6236E+13	6.8761E+13
Kr-88		1.0031E+00	7.9996E-11	5.4744E+14	4.8721E+14
Rb-86		4.1627E-08	5.1159E-16	3.5824E+09	2.1468E+07
Rb-88		9.8893E-01	8.1922E-12	5.6062E+13	3.6848E+14
Sr-89		1.2665E-06	4.3593E-14	2.9497E+11	5.7409E+08
Sr-90		1.3610E-07	9.9776E-13	6.6763E+12	6.1619E+07
Sr-91		8.7476E-07	2.4131E-16	1.5970E+09	4.6639E+08
Sr-92		2.0982E-07	1.6693E-17	1.0927E+08	1.7870E+08
Y-90		1.0930E-08	2.0090E-17	1.3443E+08	3.6059E+06
Y-91		1.7467E-08	7.1226E-16	4.7135E+09	7.7195E+06
Y-92		3.5073E-07	3.6450E-17	2.3859E+08	1.6675E+08
Y-93		1.0274E-08	3.0794E-18	1.9940E+07	5.4227E+06
Zr-95		1.8757E-08	8.7313E-16	5.5349E+09	8.5005E+06
Zr-97		1.3080E-08	6.8421E-18	4.2479E+07	6.4818E+06
Nb-95		1.8567E-08	4.7481E-16	3.0099E+09	8.4055E+06
Mo-99		2.1848E-07	4.5553E-16	2.7710E+09	1.0119E+08
Tc-99m		2.0396E-07	3.8789E-17	2.3595E+08	9.2843E+07
Ru-103		2.0452E-07	6.3370E-15	3.7051E+10	9.2742E+07
Ru-105		4.2034E-08	6.2531E-18	3.5864E+07	2.7435E+07
Ru-106		8.5474E-08	2.5548E-14	1.4515E+11	3.8704E+07
Rh-105		1.2855E-07	1.5230E-16	8.7350E+08	5.9623E+07
Sb-127		2.2292E-07	8.3472E-16	3.9581E+09	1.0257E+08
Sb-129		2.0262E-07	3.6031E-17	1.6820E+08	1.3371E+08
Te-127		2.3120E-07	8.7606E-17	4.1541E+08	1.0480E+08
Te-127m		4.0039E-08	4.2447E-15	2.0128E+10	1.8127E+07
Te-129		3.0577E-07	1.4600E-17	6.8159E+07	1.7590E+08
Te-129m		1.3102E-07	4.3491E-15	2.0303E+10	5.9376E+07
Te-131m		4.1350E-07	5.1855E-16	2.3838E+09	1.9689E+08
Te-132		3.3247E-06	1.0951E-14	4.9962E+10	1.5344E+09
I-131		7.4312E-04	5.9941E-12	2.7555E+13	2.8904E+11
I-132		1.7599E-04	1.7050E-14	7.7785E+10	1.1588E+11
I-133		1.2138E-03	1.0715E-12	4.8518E+12	5.0231E+11
I-134		3.2548E-06	1.2201E-16	5.4832E+08	1.5437E+10
I-135		6.4722E-04	1.8430E-13	8.2212E+11	3.1362E+11
Xe-133		1.5369E+01	8.2108E-08	3.7178E+17	4.7275E+15
Xe-133m		4.4697E-01	1.0153E-09	4.5970E+15	1.3923E+14
Xe-135		4.3844E+00	1.7169E-09	7.6587E+15	1.5168E+15
Xe-135m		3.7398E-04	4.1082E-15	1.8326E+10	7.5165E+11
Xe-138		9.5469E-10	9.9496E-21	4.3419E+04	1.7206E+11
Cs-134		4.2133E-06	3.2564E-12	1.4635E+13	2.1650E+09
Cs-136		1.2634E-06	1.7239E-14	7.6333E+10	6.5262E+08
Cs-137		3.2719E-06	3.7616E-11	1.6535E+14	1.6812E+09
Ba-139		3.4420E-08	2.1043E-18	9.1169E+06	6.3797E+07
Ba-140		1.8378E-06	2.5103E-14	1.0798E+11	8.3613E+08
La-140		2.2052E-07	3.9674E-16	1.7066E+09	7.1852E+07
La-141		4.2848E-09	7.5766E-19	3.2360E+06	2.9458E+06
La-142		4.7240E-10	3.3000E-20	1.3995E+05	7.2985E+05
Ce-141		4.3976E-08	1.5434E-15	6.5917E+09	1.9942E+07
Ce-143		3.6423E-08	5.4847E-17	2.3097E+08	1.7262E+07
Ce-144		3.5384E-08	1.1094E-14	4.6395E+10	1.6023E+07
Pr-143		1.7184E-08	2.5519E-16	1.0747E+09	7.7368E+06
Nd-147		6.7359E-09	8.3264E-17	3.4111E+08	3.0670E+06
Np-239		4.5683E-07	1.9691E-15	4.9617E+09	2.1240E+08
Pu-238		1.1003E-10	6.4274E-15	1.6263E+10	4.9817E+04
Pu-239		1.1108E-11	1.7871E-13	4.5030E+11	5.0275E+03
Pu-240		1.9602E-11	8.6063E-15	2.1595E+10	8.8746E+03
Pu-241		4.3548E-09	4.4036E-14	1.1004E+11	1.9716E+06
Am-241		2.4690E-12	7.2069E-16	1.8009E+09	1.1170E+03
Cm-242		6.7586E-10	2.0417E-16	5.0808E+08	3.0611E+05
Cm-244		4.4750E-11	5.4672E-16	1.3494E+09	2.0260E+04

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)		2.7413E+18	0.0000E+00

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Elemental I (atoms)	1.0103E+13	0.0000E+00
Organic I (atoms)	2.2343E+13	0.0000E+00
Aerosols (kg)	5.0648E-11	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		8.9441E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.0454E-13
Total I (Ci)		2.7834E-03

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 8.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	4.1673E+12
Organic I (atoms)	0.0000E+00	5.7198E+12
Aerosols (kg)	0.0000E+00	1.9707E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 8.0000		
Noble gases (atoms)	0.0000E+00	3.6263E+18
Elemental I (atoms)	1.2559E+14	1.2686E+12
Organic I (atoms)	2.1524E+14	2.1742E+12
Aerosols (kg)	5.0823E-10	5.1336E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 8.0000		
Noble gases (atoms)	0.0000E+00	6.7155E+17
Elemental I (atoms)	0.0000E+00	2.3492E+13
Organic I (atoms)	0.0000E+00	4.0262E+13
Aerosols (kg)	0.0000E+00	9.5067E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 8.0000		
Noble gases (atoms)	1.5494E+18	0.0000E+00
Elemental I (atoms)	9.9778E+12	0.0000E+00
Organic I (atoms)	1.3695E+13	0.0000E+00
Aerosols (kg)	4.7184E-11	0.0000E+00

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 16.0000			
Delta dose (rem)	4.5486E-01	2.1290E+00	5.2229E-01
Accumulated dose (rem)	7.2802E-01	2.8663E+00	8.1949E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 16.0000			
Delta dose (rem)	4.1663E-02	1.0029E-01	4.4840E-02
Accumulated dose (rem)	7.8850E-02	2.0066E-01	8.5299E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 16.0000			
Delta dose (rem)	9.2204E-02	7.9237E-01	1.6295E-01
Accumulated dose (rem)	1.4901E-01	1.1510E+00	2.6194E-01

CR Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 16.0000				
Kr-83m	4.0355E-03	1.9880E-13	1.4424E+12	5.8154E+13
Kr-85m	2.9705E-01	3.6096E-11	2.5574E+14	7.9226E+14
Kr-85	1.7852E-01	4.5543E-07	3.2267E+18	1.9499E+14
Kr-87	1.1621E-03	4.1025E-14	2.8398E+11	8.4858E+13
Kr-88	1.9496E-01	1.5548E-11	1.0640E+14	9.8062E+14
Rb-86	1.6535E-08	2.0321E-16	1.4230E+09	4.7709E+07
Rb-88	5.6394E-01	4.6716E-12	3.1969E+13	7.9165E+14
Sr-89	5.7232E-07	1.9700E-14	1.3330E+11	1.4167E+09
Sr-90	6.1785E-08	4.5294E-13	3.0308E+12	1.5235E+08
Sr-91	2.2152E-07	6.1110E-17	4.0441E+08	9.2556E+08
Sr-92	1.2309E-08	9.7927E-19	6.4101E+06	2.4635E+08
Y-90	9.6240E-09	1.7689E-17	1.1836E+08	1.3723E+07

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Y-91	8.3808E-09	3.4174E-16	2.2615E+09	1.9671E+07
Y-92	5.8342E-08	6.0631E-18	3.9688E+07	3.2986E+08
Y-93	2.6935E-09	8.0733E-19	5.2278E+06	1.0888E+07
Zr-95	8.4846E-09	3.9495E-16	2.5036E+09	2.0985E+07
Zr-97	4.2770E-09	2.2373E-18	1.3890E+07	1.4079E+07
Nb-95	8.4286E-09	2.1555E-16	1.3664E+09	2.0781E+07
Mo-99	9.1190E-08	1.9013E-16	1.1566E+09	2.4167E+08
Tc-99m	8.8526E-08	1.6836E-17	1.0241E+08	2.2324E+08
Ru-103	9.2302E-08	2.8600E-15	1.6721E+10	2.2874E+08
Ru-105	5.4730E-09	8.1420E-19	4.6697E+06	4.4789E+07
Ru-106	3.8778E-08	1.1591E-14	6.5851E+10	9.5668E+07
Rh-105	5.1450E-08	6.0956E-17	3.4960E+08	1.4100E+08
Sb-127	9.5303E-08	3.5687E-16	1.6922E+09	2.4738E+08
Sb-129	2.5483E-08	4.5315E-18	2.1155E+07	2.1640E+08
Te-127	1.0274E-07	3.8930E-17	1.8460E+08	2.5538E+08
Te-127m	1.8175E-08	1.9269E-15	9.1370E+09	4.4816E+07
Te-129	8.3136E-08	3.9698E-18	1.8532E+07	3.1614E+08
Te-129m	5.9148E-08	1.9634E-15	9.1658E+09	1.4652E+08
Te-131m	1.5604E-07	1.9568E-16	8.9955E+08	4.5168E+08
Te-132	1.4060E-06	4.6312E-15	2.1129E+10	3.6841E+09
I-131	6.5119E-04	5.2526E-12	2.4146E+13	9.5181E+11
I-132	4.2775E-05	4.1440E-15	1.8906E+10	1.9819E+11
I-133	8.3814E-04	7.3988E-13	3.3501E+12	1.4663E+12
I-134	5.2531E-09	1.9692E-19	8.8498E+05	1.5924E+10
I-135	2.5215E-04	7.1800E-14	3.2029E+11	7.1048E+11
Xe-133	2.0172E+01	1.0777E-07	4.8797E+17	2.2621E+16
Xe-133m	5.5227E-01	1.2544E-09	5.6799E+15	6.4328E+14
Xe-135	3.2879E+00	1.2875E-09	5.7432E+15	5.3604E+15
Xe-135m	1.4521E-04	1.5951E-15	7.1155E+09	9.3224E+11
Cs-134	1.6939E-06	1.3092E-12	5.8838E+12	4.8345E+09
Cs-136	4.9922E-07	6.8115E-15	3.0162E+10	1.4473E+09
Cs-137	1.3158E-06	1.5128E-11	6.6496E+13	3.7545E+09
Ba-139	2.7966E-10	1.7097E-20	7.4074E+04	7.0764E+07
Ba-140	8.1931E-07	1.1191E-14	4.8140E+10	2.0517E+09
La-140	1.9266E-07	3.4662E-16	1.4910E+09	2.7555E+08
La-141	4.7444E-10	8.3892E-20	3.5830E+05	4.6225E+06
Ce-141	1.9831E-08	6.9598E-16	2.9725E+09	4.9174E+07
Ce-143	1.3977E-08	2.1048E-17	8.8637E+07	3.9864E+07
Ce-144	1.6050E-08	5.0323E-15	2.1045E+10	3.9603E+07
Pr-143	7.9238E-09	1.1767E-16	4.9554E+08	1.9267E+07
Nd-147	2.9942E-09	3.7012E-17	1.5163E+08	7.5167E+06
Np-239	1.8801E-07	8.1040E-16	2.0420E+09	5.0438E+08
Pu-238	4.9955E-11	2.9180E-15	7.3834E+09	1.2317E+05
Pu-239	5.0479E-12	8.1213E-14	2.0464E+11	1.2436E+04
Pu-240	8.8988E-12	3.9070E-15	9.8036E+09	2.1942E+04
Pu-241	1.9769E-09	1.9990E-14	4.9951E+10	4.8746E+06
Am-241	1.1237E-12	3.2801E-16	8.1963E+08	2.7646E+03
Cm-242	3.0639E-10	9.2558E-17	2.3033E+08	7.5638E+05
Cm-244	2.0315E-11	2.4819E-16	6.1255E+08	5.0092E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	3.7264E+18	0.0000E+00
Elemental I (atoms)	3.5066E+12	0.0000E+00
Organic I (atoms)	2.4003E+13	0.0000E+00
Aerosols (kg)	2.1811E-11	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	7.3989E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.3211E-14
Total I (Ci)		1.7843E-03

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	9.0458E+12
Organic I (atoms)	0.0000E+00	2.3225E+13
Aerosols (kg)	0.0000E+00	4.5438E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5911E+18
Elemental I (atoms)	1.7840E+14	1.8020E+12
Organic I (atoms)	5.3324E+14	5.3863E+12

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Aerosols (kg) 7.5298E-10 7.6058E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7761E+18
Elemental I (atoms)	0.0000E+00	3.3371E+13
Organic I (atoms)	0.0000E+00	9.9746E+13
Aerosols (kg)	0.0000E+00	1.4085E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	7.6108E+18	0.0000E+00
Elemental I (atoms)	2.1659E+13	0.0000E+00
Organic I (atoms)	5.5608E+13	0.0000E+00
Aerosols (kg)	1.0879E-10	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4124E-01	2.7033E+00	4.2548E-01
Accumulated dose (rem)	1.0693E+00	5.5696E+00	1.2450E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1257E-02	1.2734E-01	3.5225E-02
Accumulated dose (rem)	1.1011E-01	3.2801E-01	1.2052E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3253E-02	8.8883E-01	1.1184E-01
Accumulated dose (rem)	2.1226E-01	2.0398E+00	3.7378E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	2.9113E-04	1.4342E-14	1.0406E+11	5.9744E+13
Kr-85m	1.2252E-01	1.4888E-11	1.0548E+14	1.0120E+15
Kr-85	2.5386E-01	6.4765E-07	4.5885E+18	4.3311E+14
Kr-87	2.1106E-05	7.4511E-16	5.1577E+09	8.5176E+13
Kr-88	3.9347E-02	3.1379E-12	2.1474E+13	1.0891E+15
Rb-86	9.8176E-09	1.2066E-16	8.4490E+08	6.0903E+07
Rb-88	1.1417E-01	9.4577E-13	6.4722E+12	8.8281E+14
Sr-89	3.9112E-07	1.3463E-14	9.1095E+10	1.9080E+09
Sr-90	4.2417E-08	3.1096E-13	2.0807E+12	2.0550E+08
Sr-91	8.4837E-08	2.3403E-17	1.5488E+08	1.0725E+09
Sr-92	1.0920E-09	8.6880E-20	5.6870E+05	2.5112E+08
Y-90	9.5406E-09	1.7536E-17	1.1734E+08	2.3463E+07
Y-91	5.9072E-09	2.4088E-16	1.5941E+09	2.6967E+07
Y-92	1.0656E-08	1.1074E-18	7.2488E+06	3.5868E+08
Y-93	1.0679E-09	3.2009E-19	2.0727E+06	1.2701E+07
Zr-95	5.8040E-09	2.7017E-16	1.7126E+09	2.8272E+07
Zr-97	2.1150E-09	1.1063E-18	6.8686E+06	1.7247E+07
Nb-95	5.7864E-09	1.4798E-16	9.3805E+08	2.8029E+07
Mo-99	5.7561E-08	1.2001E-16	7.3004E+08	3.1711E+08
Tc-99m	5.7656E-08	1.0965E-17	6.6699E+07	2.9381E+08
Ru-103	6.2998E-08	1.9520E-15	1.1413E+10	3.0792E+08
Ru-105	1.0777E-09	1.6032E-19	9.1952E+05	4.7578E+07
Ru-106	2.6606E-08	7.9526E-15	4.5181E+10	1.2902E+08
Rh-105	3.0505E-08	3.6141E-17	2.0728E+08	1.8236E+08
Sb-127	6.1618E-08	2.3073E-16	1.0941E+09	3.2711E+08
Sb-129	4.8467E-09	8.6188E-19	4.0235E+06	2.2922E+08
Te-127	6.8755E-08	2.6052E-17	1.2354E+08	3.3977E+08
Te-127m	1.2476E-08	1.3226E-15	6.2718E+09	6.0450E+07
Te-129	4.1692E-08	1.9908E-18	9.2938E+06	3.6312E+08
Te-129m	4.0344E-08	1.3392E-15	6.2519E+09	1.9725E+08
Te-131m	8.9046E-08	1.1167E-16	5.1335E+08	5.7492E+08
Te-132	8.9920E-07	2.9619E-15	1.3513E+10	4.8543E+09
I-131	7.9489E-04	6.4117E-12	2.9475E+13	1.7412E+12

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I-132	3.4652E-05	3.3571E-15	1.5316E+10	2.4392E+11
I-133	8.0617E-04	7.1165E-13	3.2223E+12	2.3670E+12
I-135	1.3684E-04	3.8966E-14	1.7382E+11	9.1729E+11
Xe-133	2.7486E+01	1.4684E-07	6.6489E+17	4.8930E+16
Xe-133m	7.0825E-01	1.6087E-09	7.2842E+15	1.3412E+15
Xe-135	2.5469E+00	9.9733E-10	4.4489E+15	8.5946E+15
Xe-135m	7.5412E-05	8.2840E-16	3.6954E+09	1.0668E+12
Cs-134	1.0180E-06	7.8679E-13	3.5359E+12	6.1937E+09
Cs-136	2.9486E-07	4.0231E-15	1.7815E+10	1.8447E+09
Cs-137	7.9099E-07	9.0937E-12	3.9974E+13	4.8105E+09
Ba-140	5.5238E-07	7.5453E-15	3.2456E+10	2.7506E+09
La-140	1.8647E-07	3.3548E-16	1.4431E+09	4.6799E+08
La-141	7.9444E-11	1.4048E-20	5.9997E+04	4.8503E+06
Ce-141	1.3520E-08	4.7450E-16	2.0266E+09	6.6179E+07
Ce-143	8.1117E-09	1.2215E-17	5.1440E+07	5.0989E+07
Ce-144	1.1010E-08	3.4520E-15	1.4437E+10	5.3406E+07
Pr-143	5.4948E-09	8.1600E-17	3.4364E+08	2.6107E+07
Nd-147	2.0129E-09	2.4881E-17	1.0193E+08	1.0067E+07
Np-239	1.1701E-07	5.0438E-16	1.2709E+09	6.5889E+08
Pu-238	3.4297E-11	2.0034E-15	5.0692E+09	1.6615E+05
Pu-239	3.4688E-12	5.5808E-14	1.4062E+11	1.6780E+04
Pu-240	6.1093E-12	2.6823E-15	6.7306E+09	2.9597E+04
Pu-241	1.3571E-09	1.3723E-14	3.4292E+10	6.5752E+06
Am-241	7.7342E-13	2.2576E-16	5.6414E+08	3.7323E+03
Cm-242	2.1005E-10	6.3455E-17	1.5791E+08	1.0198E+06
Cm-244	1.3946E-11	1.7038E-16	4.2052E+08	6.7568E+04

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump	
Noble gases (atoms)	5.2653E+18	0.0000E+00	
Elemental I (atoms)	1.6650E+12	0.0000E+00	
Organic I (atoms)	3.1033E+13	0.0000E+00	
Aerosols (kg)	1.1300E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	8.6501E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	9.4823E-14	
Total I (Ci)		1.7725E-03	

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.1135E+13
Organic I (atoms)	0.0000E+00	4.6857E+13
Aerosols (kg)	0.0000E+00	5.8542E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8659E+19
Elemental I (atoms)	2.0579E+14	2.0787E+12
Organic I (atoms)	9.8477E+14	9.9471E+12
Aerosols (kg)	9.1245E-10	9.2166E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4554E+18
Elemental I (atoms)	0.0000E+00	3.8495E+13
Organic I (atoms)	0.0000E+00	1.8421E+14
Aerosols (kg)	0.0000E+00	1.7068E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.6789E+19	0.0000E+00
Elemental I (atoms)	2.6661E+13	0.0000E+00
Organic I (atoms)	1.1219E+14	0.0000E+00
Aerosols (kg)	1.4017E-10	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	7.6190E-01	1.0966E+01	1.0984E+00
Accumulated dose (rem)	1.8312E+00	1.6536E+01	2.3434E+00

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9388E-02	2.7796E-01	3.7918E-02
Accumulated dose (rem)	1.3949E-01	6.0597E-01	1.5844E-01

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9964E-02	1.6941E+00	1.2389E-01
Accumulated dose (rem)	2.8223E-01	3.7339E+00	4.9767E-01

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	7.6094E-07	9.2465E-17	6.5510E+08	1.0747E+15
Kr-85	1.0851E-01	2.7684E-07	1.9614E+18	1.5184E+15
Kr-88	3.9290E-10	3.1333E-20	2.1442E+05	1.1031E+15
Rb-86	1.1953E-09	1.4690E-17	1.0286E+08	7.8886E+07
Rb-88	1.1432E-09	9.4704E-21	6.4809E+04	8.9669E+14
Sr-89	7.1275E-08	2.4533E-15	1.6600E+10	2.8037E+09
Sr-90	8.0530E-09	5.9036E-14	3.9503E+11	3.0433E+08
Sr-91	8.4256E-11	2.3243E-20	1.5382E+05	1.1278E+09
Y-90	5.2042E-09	9.5655E-18	6.4005E+07	6.5140E+07
Y-91	1.1209E-09	4.5708E-17	3.0248E+08	4.0874E+07
Zr-95	1.0669E-09	4.9662E-17	3.1481E+08	4.1612E+07
Zr-97	2.0956E-11	1.0962E-20	6.8058E+04	1.9256E+07
Nb-95	1.0974E-09	2.8063E-17	1.7789E+08	4.1500E+07
Mo-99	5.1314E-09	1.0699E-17	6.5081E+07	4.1710E+08
Tc-99m	5.2608E-09	1.0005E-18	6.0860E+06	3.9050E+08
Ru-103	1.1346E-08	3.5155E-16	2.0554E+09	4.5148E+08
Ru-106	5.0238E-09	1.5016E-15	8.5311E+09	1.9086E+08
Rh-105	1.4195E-09	1.6818E-18	9.6456E+06	2.2525E+08
Sb-127	6.8178E-09	2.5530E-17	1.2106E+08	4.4291E+08
Te-127	8.8496E-09	3.3533E-18	1.5901E+07	4.7282E+08
Te-127m	2.3550E-09	2.4967E-16	1.1839E+09	8.9459E+07
Te-129	6.2279E-09	2.9738E-19	1.3883E+06	4.2490E+08
Te-129m	7.2023E-09	2.3908E-16	1.1161E+09	2.8885E+08
Te-131m	3.2037E-09	4.0176E-18	1.8469E+07	6.9077E+08
Te-132	9.0198E-08	2.9710E-16	1.3555E+09	6.4842E+09
I-131	2.3903E-04	1.9280E-12	8.8633E+12	4.4645E+12
I-132	4.0255E-06	3.8998E-16	1.7792E+09	3.1415E+11
I-133	2.8453E-05	2.5117E-14	1.1373E+11	3.6156E+12
I-135	2.7987E-08	7.9692E-18	3.5549E+07	1.0020E+12
Xe-133	7.9711E+00	4.2585E-08	1.9282E+17	1.4720E+17
Xe-133m	1.1925E-01	2.7086E-10	1.2264E+15	3.3556E+15
Xe-135	4.5064E-03	1.7646E-12	7.8718E+12	1.0913E+16
Xe-135m	1.4892E-08	1.6359E-19	7.2976E+05	1.1050E+12
Cs-134	1.3816E-07	1.0679E-13	4.7991E+11	8.1381E+09
Cs-136	3.4240E-08	4.6718E-16	2.0687E+09	2.3752E+09
Cs-137	1.0763E-07	1.2374E-12	5.4394E+12	6.3228E+09
Ba-140	8.9096E-08	1.2170E-15	5.2350E+09	3.9533E+09
La-140	7.8332E-08	1.4093E-16	6.0620E+08	1.1804E+09
Ce-141	2.4087E-09	8.4535E-17	3.6105E+08	9.6851E+07
Ce-143	3.3949E-10	5.1121E-19	2.1529E+06	6.2015E+07
Ce-144	2.0755E-09	6.5074E-16	2.7214E+09	7.8981E+07
Pr-143	1.0051E-09	1.4926E-17	6.2856E+07	3.8858E+07
Nd-147	3.1628E-10	3.9096E-18	1.6016E+07	1.4404E+07
Np-239	9.1887E-09	3.9608E-17	9.9801E+07	8.5334E+08
Pu-238	6.5149E-12	3.8055E-16	9.6291E+08	2.4607E+05
Pu-239	6.6219E-13	1.0654E-14	2.6844E+10	2.4883E+04
Pu-240	1.1601E-12	5.0936E-16	1.2781E+09	4.3833E+04
Pu-241	2.5761E-10	2.6050E-15	6.5093E+09	9.7369E+06
Am-241	1.5024E-13	4.3856E-17	1.0959E+08	5.5516E+03
Cm-242	3.9381E-11	1.1897E-17	2.9605E+07	1.5066E+06
Cm-244	2.6474E-12	3.2344E-17	7.9828E+07	1.0006E+05

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	2.1554E+18	0.0000E+00
Elemental I (atoms)	4.7779E+10	0.0000E+00

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Organic I (atoms)	8.9120E+12	0.0000E+00	
Aerosols (kg)	1.4295E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		2.2597E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		2.2874E-14
Total I (Ci)			2.7153E-04

	Deposition	Recirculating
	Surfaces	Filter
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.2610E+13
Organic I (atoms)	0.0000E+00	1.3014E+14
Aerosols (kg)	0.0000E+00	7.5041E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	5.1580E+19
Elemental I (atoms)	2.2337E+14	2.2563E+12
Organic I (atoms)	2.3270E+15	2.3505E+13
Aerosols (kg)	1.1464E-09	1.1580E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	0.0000E+00	9.5518E+18
Elemental I (atoms)	0.0000E+00	4.1783E+13
Organic I (atoms)	0.0000E+00	4.3528E+14
Aerosols (kg)	0.0000E+00	2.1444E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 96.0000		
Noble gases (atoms)	5.8813E+19	0.0000E+00
Elemental I (atoms)	3.0191E+13	0.0000E+00
Organic I (atoms)	3.1161E+14	0.0000E+00
Aerosols (kg)	1.7967E-10	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2716E+00	2.9434E+01	2.1736E+00
Accumulated dose (rem)	3.1027E+00	4.5970E+01	4.5170E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4212E-02	2.1618E-01	2.0836E-02
Accumulated dose (rem)	1.5371E-01	8.2214E-01	1.7928E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3498E-02	2.1935E+00	1.2072E-01
Accumulated dose (rem)	3.3573E-01	5.9274E+00	6.1839E-01

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	6.7493E-02	1.7219E-07	1.2199E+18	7.8166E+15
Rb-86	2.7627E-10	3.3953E-18	2.3776E+07	1.2303E+08
Sr-89	3.0652E-08	1.0551E-15	7.1390E+09	6.2559E+09
Sr-90	4.9400E-09	3.6215E-14	2.4232E+11	7.6459E+08
Y-90	4.9659E-09	9.1275E-18	6.1075E+07	4.9890E+08
Y-91	5.0622E-10	2.0642E-17	1.3660E+08	9.6386E+07
Zr-95	4.9464E-10	2.3025E-17	1.4596E+08	9.5083E+07
Nb-95	6.2809E-10	1.6062E-17	1.0182E+08	1.0263E+08
Mo-99	4.4940E-12	9.3701E-21	5.6998E+04	4.6568E+08
Ru-103	4.4064E-09	1.3653E-16	7.9826E+08	9.7653E+08
Ru-106	2.9395E-09	8.7864E-16	4.9918E+09	4.7157E+08
Sb-127	3.8834E-11	1.4542E-19	6.8955E+05	5.3135E+08
Te-127	1.3120E-09	4.9713E-19	2.3573E+06	6.7803E+08

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Te-127m	1.2497E-09	1.3249E-16	6.2825E+08	2.1581E+08
Te-129	2.2382E-09	1.0688E-19	4.9893E+05	6.3467E+08
Te-129m	2.5884E-09	8.5922E-17	4.0111E+08	6.1097E+08
Te-132	2.1959E-10	7.2332E-19	3.2999E+06	7.4867E+09
I-131	1.5868E-05	1.2799E-13	5.8839E+11	1.0222E+13
I-132	9.9097E-09	9.6004E-19	4.3799E+06	3.6612E+11
Xe-133	1.6211E-01	8.6606E-10	3.9214E+15	2.8620E+17
Xe-133m	2.3041E-05	5.2335E-14	2.3697E+11	4.2958E+15
Cs-134	8.1905E-08	6.3304E-14	2.8450E+11	1.5861E+10
Cs-136	5.2526E-09	7.1668E-17	3.1735E+08	3.4544E+09
Cs-137	6.5244E-08	7.5008E-13	3.2972E+12	1.2404E+10
Ba-140	1.3305E-08	1.8174E-16	7.8176E+08	6.7528E+09
La-140	1.5455E-08	2.7806E-17	1.1961E+08	4.2600E+09
Ce-141	8.5010E-10	2.9835E-17	1.2743E+08	2.0373E+08
Ce-144	1.1970E-09	3.7530E-16	1.5695E+09	1.9416E+08
Pr-143	1.6973E-10	2.5205E-18	1.0615E+07	7.2513E+07
Nd-147	3.7649E-11	4.6538E-19	1.9065E+06	2.3562E+07
Np-239	2.6809E-12	1.1556E-20	2.9118E+04	9.2835E+08
Pu-238	4.0139E-12	2.3446E-16	5.9325E+08	6.1922E+05
Pu-239	4.0841E-13	6.5707E-15	1.6556E+10	6.2882E+04
Pu-240	7.1293E-13	3.1302E-16	7.8543E+08	1.1020E+05
Pu-241	1.5777E-10	1.5954E-15	3.9867E+09	2.4449E+07
Am-241	1.1032E-13	3.2201E-17	8.0465E+07	1.4950E+04
Cm-242	2.1666E-11	6.5451E-18	1.6287E+07	3.6437E+06
Cm-244	1.6223E-12	1.9820E-17	4.8917E+07	2.5129E+05

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump	
Noble gases (atoms)	1.2239E+18	0.0000E+00	
Elemental I (atoms)	2.7304E+09	0.0000E+00	
Organic I (atoms)	5.8445E+11	0.0000E+00	
Aerosols (kg)	8.6169E-13	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4708E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.4708E-15
Total I (Ci)			1.5878E-05

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.3405E+13
Organic I (atoms)	0.0000E+00	2.9841E+14
Aerosols (kg)	0.0000E+00	1.3869E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3809E+20
Elemental I (atoms)	2.3697E+14	2.3936E+12
Organic I (atoms)	5.2115E+15	5.2641E+13
Aerosols (kg)	2.2393E-09	2.2620E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4092E+19
Elemental I (atoms)	0.0000E+00	4.4327E+13
Organic I (atoms)	0.0000E+00	9.7483E+14
Aerosols (kg)	0.0000E+00	4.1888E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	2.8065E+20	0.0000E+00
Elemental I (atoms)	3.2095E+13	0.0000E+00
Organic I (atoms)	7.1450E+14	0.0000E+00
Aerosols (kg)	3.3206E-10	0.0000E+00

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I-131 Summary

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Time (hr)	DW I-131 (Curies)	WW I-131 (Curies)	Dummy I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4411E-02
0.017	1.8470E+05	0.0000E+00	3.1089E+01
0.083	9.2044E+05	0.0000E+00	7.7298E+02
0.333	3.6817E+06	0.0000E+00	1.0901E+03
0.500	6.8012E+05	0.0000E+00	1.2252E+03
0.750	9.4093E+05	0.0000E+00	1.3469E+03
1.000	9.4889E+05	0.0000E+00	1.4764E+03
1.400	9.5870E+05	0.0000E+00	1.6854E+03
1.700	9.6603E+05	0.0000E+00	1.8434E+03
2.000	9.7334E+05	0.0000E+00	2.0026E+03
2.250	5.9162E+04	4.0983E+04	2.0443E+03
2.400	6.0403E+04	3.7668E+04	2.0510E+03
2.700	6.0349E+04	3.7597E+04	2.0643E+03
3.000	6.0272E+04	3.7549E+04	2.0776E+03
3.300	6.0196E+04	3.7501E+04	2.0909E+03
3.600	6.0119E+04	3.7454E+04	2.1041E+03
3.900	6.0043E+04	3.7406E+04	2.1173E+03
4.000	6.0017E+04	3.7390E+04	2.1217E+03
4.300	5.9941E+04	3.7343E+04	2.1349E+03
4.600	5.9865E+04	3.7295E+04	2.1480E+03
4.900	5.9789E+04	3.7248E+04	2.1611E+03
5.200	5.9713E+04	3.7200E+04	2.1742E+03
5.500	5.9637E+04	3.7153E+04	2.1872E+03
5.800	5.9561E+04	3.7106E+04	2.2002E+03
6.100	5.9485E+04	3.7058E+04	2.2131E+03
6.400	5.9409E+04	3.7011E+04	2.2261E+03
6.700	5.9334E+04	3.6964E+04	2.2389E+03
7.000	5.9258E+04	3.6917E+04	2.2518E+03
7.300	5.9183E+04	3.6870E+04	2.2646E+03
7.600	5.9107E+04	3.6823E+04	2.2774E+03
7.900	5.9032E+04	3.6776E+04	2.2902E+03
8.000	5.9007E+04	3.6761E+04	2.2944E+03
8.300	5.8932E+04	3.6714E+04	2.3071E+03
8.600	5.8857E+04	3.6667E+04	2.3198E+03
8.900	5.8782E+04	3.6621E+04	2.3324E+03
9.200	5.8707E+04	3.6574E+04	2.3451E+03
9.500	5.8632E+04	3.6527E+04	2.3576E+03
9.800	5.8558E+04	3.6481E+04	2.3702E+03
10.100	5.8483E+04	3.6434E+04	2.3827E+03
10.400	5.8409E+04	3.6388E+04	2.3952E+03
16.000	5.7035E+04	3.5532E+04	2.6223E+03
24.000	5.5126E+04	3.4343E+04	2.9278E+03
96.000	4.1555E+04	2.5888E+04	3.5649E+03
720.000	3.5475E+03	2.2101E+03	1.4427E+03

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSIV Failed Inboard V I-131 (Curies)
0.000	7.9678E-15	5.5277E-18	2.2613E-04
0.017	6.4980E-09	4.5057E-12	2.0418E-01
0.083	4.0029E-06	7.3062E-10	5.0649E+00
0.333	1.0082E-03	1.7995E-07	8.0334E+01
0.500	4.7914E-03	8.4400E-07	1.1108E+02
0.750	1.8451E-02	3.1729E-06	1.3718E+02
1.000	4.4106E-02	7.4016E-06	1.6444E+02
1.400	1.1821E-01	1.9118E-05	2.0699E+02
1.700	2.0839E-01	3.2837E-05	2.3807E+02
2.000	3.3613E-01	5.1669E-05	2.6844E+02
2.250	4.7629E-01	6.3477E-05	2.6808E+02
2.400	5.7581E-01	7.1875E-05	2.6499E+02
2.700	8.0969E-01	9.1404E-05	2.5896E+02
3.000	1.0901E+00	1.1428E-04	2.5311E+02
3.300	1.4171E+00	1.4015E-04	2.4744E+02
3.600	1.7905E+00	1.6869E-04	2.4195E+02
3.900	2.2102E+00	1.9962E-04	2.3663E+02
4.000	2.3603E+00	2.1041E-04	2.3490E+02
4.300	2.8410E+00	2.4407E-04	2.2980E+02
4.600	3.3672E+00	2.7949E-04	2.2486E+02
4.900	3.9382E+00	3.1643E-04	2.2007E+02
5.200	4.5537E+00	3.5468E-04	2.1543E+02
5.500	5.2128E+00	3.9403E-04	2.1094E+02

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5.800	5.9152E+00	4.3429E-04	2.0659E+02
6.100	6.6600E+00	4.7530E-04	2.0237E+02
6.400	7.4465E+00	5.1689E-04	1.9828E+02
6.700	8.2740E+00	5.5893E-04	1.9432E+02
7.000	9.1418E+00	6.0127E-04	1.9048E+02
7.300	1.0049E+01	6.4379E-04	1.8676E+02
7.600	1.0995E+01	6.8639E-04	1.8315E+02
7.900	1.1978E+01	7.2896E-04	1.7965E+02
8.000	1.2315E+01	7.4312E-04	1.7851E+02
8.300	1.3347E+01	7.1110E-04	1.7516E+02
8.600	1.4416E+01	6.8389E-04	1.7191E+02
8.900	1.5520E+01	6.6097E-04	1.6877E+02
9.200	1.6657E+01	6.4187E-04	1.6571E+02
9.500	1.7829E+01	6.2615E-04	1.6276E+02
9.800	1.9032E+01	6.1343E-04	1.5989E+02
10.100	2.0267E+01	6.0337E-04	1.5711E+02
10.400	2.1533E+01	5.9566E-04	1.5442E+02
16.000	4.9796E+01	6.5119E-04	1.1678E+02
24.000	9.9603E+01	7.9489E-04	8.9249E+01
96.000	3.2574E+02	2.3903E-04	5.3722E+01
720.000	9.7568E+02	1.5868E-05	4.5572E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volum I-131 (Curies)
0.000	3.5737E-10	2.2612E-04	4.9518E-10
0.017	9.6925E-06	2.0416E-01	1.3430E-05
0.083	1.1955E-03	5.0623E+00	1.6568E-03
0.333	7.4918E-02	8.0171E+01	1.0389E-01
0.500	2.1292E-01	1.1062E+02	2.9526E-01
0.750	4.6302E-01	1.3616E+02	6.4150E-01
1.000	7.6538E-01	1.6277E+02	1.0586E+00
1.400	1.3612E+00	2.0407E+02	1.8761E+00
1.700	1.8999E+00	2.3405E+02	2.6102E+00
2.000	2.5179E+00	2.6320E+02	3.4479E+00
2.250	3.0631E+00	2.6177E+02	4.1836E+00
2.400	3.3806E+00	2.5808E+02	4.6105E+00
2.700	3.9907E+00	2.5088E+02	5.4285E+00
3.000	4.5695E+00	2.4394E+02	6.2006E+00
3.300	5.1187E+00	2.3726E+02	6.9293E+00
3.600	5.6399E+00	2.3082E+02	7.6173E+00
3.900	6.1347E+00	2.2461E+02	8.2666E+00
4.000	6.2941E+00	2.2260E+02	8.4749E+00
4.300	6.7559E+00	2.1669E+02	9.0761E+00
4.600	7.1947E+00	2.1101E+02	9.6437E+00
4.900	7.6115E+00	2.0553E+02	1.0179E+01
5.200	8.0077E+00	2.0025E+02	1.0685E+01
5.500	8.3844E+00	1.9516E+02	1.1162E+01
5.800	8.7425E+00	1.9026E+02	1.1613E+01
6.100	9.0831E+00	1.8553E+02	1.2038E+01
6.400	9.4071E+00	1.8098E+02	1.2439E+01
6.700	9.7154E+00	1.7659E+02	1.2818E+01
7.000	1.0009E+01	1.7237E+02	1.3175E+01
7.300	1.0288E+01	1.6829E+02	1.3512E+01
7.600	1.0554E+01	1.6437E+02	1.3830E+01
7.900	1.0807E+01	1.6059E+02	1.4130E+01
8.000	1.0889E+01	1.5936E+02	1.4226E+01
8.300	1.1126E+01	1.5576E+02	1.4504E+01
8.600	1.1352E+01	1.5228E+02	1.4766E+01
8.900	1.1568E+01	1.4894E+02	1.5012E+01
9.200	1.1773E+01	1.4572E+02	1.5245E+01
9.500	1.1968E+01	1.4261E+02	1.5465E+01
9.800	1.2155E+01	1.3961E+02	1.5671E+01
10.100	1.2332E+01	1.3672E+02	1.5866E+01
10.400	1.2502E+01	1.3394E+02	1.6050E+01
16.000	1.4544E+01	9.6912E+01	1.8016E+01
24.000	1.5491E+01	7.2786E+01	1.8532E+01
96.000	1.2445E+01	4.5412E+01	1.4360E+01
720.000	1.0641E+00	3.8665E+00	1.2264E+00

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Cumulative Dose Summary

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EAB

LPZ

CR

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Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	4.1341E-10	4.1307E-11	5.6279E-11	5.6233E-12	3.4988E-12	1.2908E-13
0.083	2.5448E-07	2.4308E-08	3.4643E-08	3.3091E-09	2.2520E-09	1.2575E-10
0.333	6.3922E-05	5.3326E-06	8.7019E-06	7.2595E-07	2.1523E-06	1.1325E-07
0.500	3.0324E-04	2.4343E-05	4.1281E-05	3.3139E-06	1.5700E-05	8.0795E-07
0.750	1.1650E-03	1.0301E-04	1.5859E-04	1.4023E-05	9.8197E-05	5.2466E-06
1.000	2.7786E-03	3.1005E-04	3.7827E-04	4.2208E-05	3.2366E-04	1.9486E-05
1.400	7.4260E-03	1.2583E-03	1.0109E-03	1.7130E-04	1.2194E-03	9.8828E-05
1.700	1.3059E-02	5.8396E-03	1.7778E-03	3.8656E-04	2.5671E-03	2.6387E-04
2.000	2.1012E-02	5.5504E-03	2.8604E-03	7.5559E-04	4.7615E-03	6.0371E-04
2.250	2.9710E-02	8.9001E-03	4.0446E-03	1.2116E-03	7.2628E-03	1.0638E-03
2.400	3.5872E-02	1.1416E-02	4.8834E-03	1.5541E-03	9.0285E-03	1.4193E-03
2.700	5.0318E-02	1.7601E-02	6.8500E-03	2.3962E-03	1.3270E-02	2.3458E-03
3.000	6.7582E-02	2.5291E-02	9.2002E-03	3.4429E-03	1.8603E-02	3.6267E-03
3.300	8.7644E-02	3.4430E-02	1.1931E-02	4.6871E-03	2.5185E-02	5.3232E-03
3.600	1.1048E-01	4.4945E-02	1.5040E-02	6.1185E-03	3.3156E-02	7.4877E-03
3.900	1.3606E-01	5.6746E-02	1.8522E-02	7.7251E-03	4.2637E-02	1.0161E-02
4.000	1.4519E-01	6.0949E-02	1.9765E-02	8.2973E-03	4.6152E-02	1.1171E-02
4.300	1.7437E-01	7.4315E-02	2.3738E-02	1.0117E-02	5.7810E-02	1.4568E-02
4.600	2.0621E-01	8.8734E-02	2.8073E-02	1.2080E-02	7.1202E-02	1.8526E-02
4.900	2.4066E-01	1.0411E-01	3.2763E-02	1.4172E-02	8.6402E-02	2.3050E-02
5.200	2.7768E-01	1.2033E-01	3.7802E-02	1.6381E-02	1.0347E-01	2.8137E-02
5.500	3.1721E-01	1.3731E-01	4.3184E-02	1.8693E-02	1.2246E-01	3.3775E-02
5.800	3.5921E-01	1.5495E-01	4.8901E-02	2.1094E-02	1.4340E-01	3.9948E-02
6.100	4.0362E-01	1.7317E-01	5.4947E-02	2.3574E-02	1.6634E-01	4.6634E-02
6.400	4.5039E-01	1.9188E-01	6.1313E-02	2.6122E-02	1.9129E-01	5.3805E-02
6.700	4.9945E-01	2.1102E-01	6.7993E-02	2.8727E-02	2.1826E-01	6.1433E-02
7.000	5.5077E-01	2.3050E-01	7.4979E-02	3.1379E-02	2.4726E-01	6.9487E-02
7.300	6.0427E-01	2.5027E-01	8.2262E-02	3.4070E-02	2.7830E-01	7.7935E-02
7.600	6.5990E-01	2.7027E-01	8.9836E-02	3.6793E-02	3.1136E-01	8.6742E-02
7.900	7.1761E-01	2.9044E-01	9.7691E-02	3.9539E-02	3.4645E-01	9.5876E-02
8.000	7.3729E-01	2.9720E-01	1.0037E-01	4.0459E-02	3.5859E-01	9.8988E-02
8.300	7.9767E-01	3.1754E-01	1.0322E-01	4.2236E-02	3.9450E-01	1.0819E-01
8.600	8.5999E-01	3.3795E-01	1.0615E-01	4.4016E-02	4.2886E-01	1.1694E-01
8.900	9.2419E-01	3.5840E-01	1.0918E-01	4.5798E-02	4.6190E-01	1.2522E-01
9.200	9.9022E-01	3.7885E-01	1.1229E-01	4.7577E-02	4.9383E-01	1.3303E-01
9.500	1.0580E+00	3.9928E-01	1.1548E-01	4.9352E-02	5.2482E-01	1.4042E-01
9.800	1.1275E+00	4.1966E-01	1.1875E-01	5.1120E-02	5.5504E-01	1.4744E-01
10.100	1.1987E+00	4.3997E-01	1.2211E-01	5.2880E-02	5.8463E-01	1.5412E-01
10.400	1.2714E+00	4.6019E-01	1.2553E-01	5.4629E-02	6.1371E-01	1.6050E-01
16.000	2.8663E+00	8.1949E-01	2.0066E-01	8.5299E-02	1.1510E+00	2.6194E-01
24.000	5.5696E+00	1.2450E+00	3.2801E-01	1.2052E-01	2.0398E+00	3.7378E-01
96.000	1.6536E+01	2.3434E+00	6.0597E-01	1.5844E-01	3.7339E+00	4.9767E-01
720.000	4.5970E+01	4.5170E+00	8.2214E-01	1.7928E-01	5.9274E+00	6.1839E-01

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
8.0	1.2199E-01	4.3766E-01	1.3600E-01

CALCULATION NO. H21C-106

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Attachment 13.24 – RADTRAD Output File “NMP2MS201.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:10:57
#####

#####
File information
#####
```

```
Plant file           = NMP2MS201.psf
Inventory file       = D:\User\Gardner\h21c-106r3\nmp2.nif
Release file        = D:\User\Gardner\h21c-106r3\bwr_dba.rft
Dose Conversion file = D:\User\Gardner\h21c-106r3\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
#####      #####      #####      # #      # #      #####      # #      #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
# #      # #      # #      # #      # #      # #      # #
```

```
Radtrad 3.03 4/15/2001
NMP2 - MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh and 100 scfh Per
Line, MSIV Leak Rate Reduction After 24 hrs, 20-group Total Effective Aerosol Removal Efficiency, and CAVEX Core
Inventory
Nuclide Inventory File:
D:\User\Gardner\h21c-106r3\nmp2.nif
Plant Power Level:
4.0670E+03
Compartments:
9
Compartment 1:
DW
3
3.0620E+05
1
0
0
0
0
Compartment 2:
WW
3
1.9080E+05
0
0
0
0
0
Compartment 3:
Dummy
3
1.0000E+02
0
0
0
0
0
Compartment 4:
Environment
2
0.0000E+00
0
0
0
```

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```

0
0
Compartment 5:
CR
1
3.8100E+05
0
0
1
0
0
Compartment 6:
MSIV Failed Inboard Volume 1
3
3.9068E+02
0
0
0
0
0
Compartment 7:
MSIV Failed Outboard Volume 2
3
4.2841E+02
0
0
0
0
0
Compartment 8:
Intact Inboard Volume 3
3
3.3181E+02
0
0
0
0
0
Compartment 9:
Intact Outboard Volume 4
3
4.8703E+02
0
0
0
0
0
Pathways:
15
Pathway 1:
DW to WW
1
2
4
Pathway 2:
WW to DW
2
1
4
Pathway 3:
DW Leakage to RB (Released to Dummy)
1
3
2
Pathway 4:
WW Leakage to RB (Released to Dummy)
2
3
2
Pathway 5:
DW Bypass Pathway 5 to Environment (Released to Dummy)
1
3
2

```

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Pathway 6:

WW Bypass Pathway 6 to Environment (Released to Dummy)

2
3
2

Pathway 7:

DW to MSIV Failed Inboard Volume 1

1
6
2

Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Pathway 7)

7
4
2

Pathway 10:

DW to Intact Inboard Volume 3

1
8
2

Pathway 11:

Intact Inboard Volume 3 to Intact Outboard Volume 4

8
9
2

Pathway 12:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:

Intact Outboard Volume 4 to Environment (Pathway 8)

9
4
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 1.0000E+00
D:\User\Gardner\h21c-106r3\nmp2.inp
D:\User\Gardner\h21c-106r3\bwr_dba.rft
0.0000E+00
1
9.5000E-01 4.8500E-02 1.5000E-03 1.0000E+00

Overlying Pool:

0
0.0000E+00
0
0
0
0

Compartments:

9

Compartment 1:

0

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```

1
1
0.0000E+00
5
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  0.0000E+00
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
5
0.0000E+00  0.0000E+00
3.3330E-01  1.9800E+01
2.2500E+00  1.9800E+00
2.4000E+00  0.0000E+00
7.2000E+02  0.0000E+00
1
0.0000E+00
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
0
Compartment 4:
0
1
0
0
0
0
0
0
0
0
0
Compartment 5:
1
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00
0
0
Compartment 6:
0
1
0
0

```

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0
0
0
0
0

Compartment 7:

0
1
0
0
0
0
0
0
0
0

Compartment 8:

0
1
0
0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00 0.0000E+00

2.0000E+00 8.9710E+04

7.2000E+02 0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00 0.0000E+00

2.0000E+00 1.4400E+05

7.2000E+02 0.0000E+00

0

Pathway 3:

0
0

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0
0
0
1
4
0.0000E+00 1.0280E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 2.7500E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.3800E+00 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 4:

0
0
0
0
0
1
4
0.0000E+00 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 7.3000E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5
0.0000E+00 2.4930E-01 7.3050E+01 3.6000E+00 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 4.8200E+00 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 8.4600E+00 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 4.8890E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5
0.0000E+00 1.1200E-02 8.5610E+01 3.6000E+00 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 4.8200E+00 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 8.4600E+00 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 4.8890E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0
0

Pathway 7:

0
0

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--------------------------	------------	--------------

0
0
0
1
3
0.0000E+00 6.7600E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 8:

0
0
0
0
0
1
5
0.0000E+00 6.7600E-01 0.0000E+00 3.8200E+00 0.0000E+00
8.0000E+00 6.7600E-01 0.0000E+00 5.1200E+00 0.0000E+00
2.4000E+01 3.3800E-01 0.0000E+00 8.9800E+00 0.0000E+00
9.6000E+01 3.3800E-01 0.0000E+00 5.1030E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 9:

0
0
0
0
0
1
5
0.0000E+00 1.6670E+00 9.9670E+01 3.5600E+00 0.0000E+00
8.0000E+00 1.6670E+00 9.9670E+01 4.7800E+00 0.0000E+00
2.4000E+01 8.3330E-01 9.9670E+01 8.3900E+00 0.0000E+00
9.6000E+01 8.3330E-01 9.9670E+01 4.8590E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 10:

0
0
0
0
0
1
3
0.0000E+00 6.7600E-01 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 3.3800E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 11:

0
0
0
0

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```

0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  3.8300E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  5.1300E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  8.9800E+00  0.0000E+00
9.6000E+01  3.3800E-01  0.0000E+00  5.1040E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 13:
0
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 15:
0
0
0
0

```

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```

0
1
5
0.0000E+00  1.6670E+00  9.9600E+01  3.6000E+00  0.0000E+00
8.0000E+00  1.6670E+00  9.9600E+01  4.8200E+00  0.0000E+00
2.4000E+01  8.3330E-01  9.9600E+01  8.4600E+00  0.0000E+00
9.6000E+01  8.3330E-01  9.9600E+01  4.8890E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00

```

```

0
0
0
0
0
0

```

Dose Locations:

3

Location 1:

EAB

```

4
1
2
0.0000E+00  1.1900E-04
7.2000E+02  0.0000E+00

```

```

1
2

```

```

0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00

```

0

Location 2:

LPZ

```

4
1
5
0.0000E+00  1.6200E-05
8.0000E+00  1.0900E-05
2.4000E+01  4.5900E-06
9.6000E+01  1.3300E-06
7.2000E+02  0.0000E+00

```

```

1
4

```

```

0.0000E+00  3.5000E-04
8.0000E+00  1.8000E-04
2.4000E+01  2.3000E-04
7.2000E+02  0.0000E+00

```

0

Location 3:

CR

```

5
0
1
2
0.0000E+00  3.5000E-04
7.2000E+02  0.0000E+00

```

```

1
4

```

```

0.0000E+00  1.0000E+00
2.4000E+01  6.0000E-01
9.6000E+01  4.0000E-01
7.2000E+02  0.0000E+00

```

Effective Volume Location:

```

1
6
0.0000E+00  1.4700E-03
2.0000E+00  9.7400E-04
8.0000E+00  3.6300E-04
2.4000E+01  2.4500E-04
9.6000E+01  1.9000E-04
7.2000E+02  0.0000E+00

```

Simulation Parameters:

```

7
0.0000E+00  1.0000E-02
1.0000E+00  1.0000E-01
2.0000E+00  5.0000E-01
8.0000E+00  1.0000E+00

```

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2.4000E+01 2.0000E+00

9.6000E+01 5.0000E+00

7.2000E+02 0.0000E+00

Output Filename:

C:\Radtrad 3.o203

1

1

1

0

0

End of Scenario File

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REV. No. 4

PAGE NO. 995

 RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:10:57
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 1.0000E+00
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

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Compartment number 6
Name: MSIV Failed Inboard Volume 1
Compartment volume = 3.9068E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
 Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
 Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
 Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
 Inlet Pathway Number 10: DW to Intact Inboard Volume 3
 Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Outboard Volume 4
Compartment volume = 4.8703E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 9
 Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
 Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:10:57
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	5.0000E-02	9.5000E-01	0.0000E+00	6.081E+03
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	5.0000E-02	2.0000E-01	0.0000E+00	6.176E+04
TELLURIUM	0.0000E+00	5.0000E-02	0.0000E+00	4.865E+01
STRONTIUM	0.0000E+00	2.0000E-02	0.0000E+00	2.292E+03
BARIUM	0.0000E+00	2.0000E-02	0.0000E+00	5.648E+01
RUTHENIUM	0.0000E+00	2.5000E-03	0.0000E+00	7.182E+01
CERIUM	0.0000E+00	5.0000E-04	0.0000E+00	5.553E+02
LANTHANUM	0.0000E+00	2.0000E-04	0.0000E+00	8.499E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Kr-83m	1	4.050E+03	6.696E+03	1.500E-18	0.000E+00	0.000E+00
Kr-85m	1	9.120E+03	1.613E+04	7.480E-15	0.000E+00	0.000E+00
Kr-85	1	4.610E+02	3.386E+08	1.190E-16	0.000E+00	0.000E+00
Kr-87	1	1.840E+04	4.578E+03	4.120E-14	0.000E+00	0.000E+00
Kr-88	1	2.500E+04	1.022E+04	1.020E-13	0.000E+00	0.000E+00
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
Sr-89	5	3.440E+04	4.363E+06	7.730E-17	7.960E-12	1.760E-09
Sr-90	5	3.680E+03	9.190E+08	7.530E-18	2.690E-10	6.470E-08
Sr-91	5	4.240E+04	3.420E+04	4.929E-14	9.640E-12	2.577E-10
Sr-92	5	4.390E+04	9.756E+03	6.790E-14	3.920E-12	1.700E-10
Y-90	9	3.810E+03	2.304E+05	1.900E-16	5.170E-13	2.280E-09
Y-91	9	4.310E+04	5.055E+06	2.600E-16	8.500E-12	1.320E-08
Y-92	9	4.440E+04	1.274E+04	1.300E-14	1.050E-12	2.110E-10
Y-93	9	4.810E+04	3.636E+04	4.800E-15	9.260E-13	5.820E-10
Zr-95	9	5.090E+04	5.528E+06	3.600E-14	1.440E-09	6.390E-09
Zr-97	9	4.910E+04	6.084E+04	4.432E-14	2.310E-11	1.171E-09
Nb-95	9	5.020E+04	3.037E+06	3.740E-14	3.580E-10	1.570E-09
Mo-99	7	5.140E+04	2.376E+05	7.280E-15	1.520E-11	1.070E-09
Tc-99m	7	4.530E+04	2.167E+04	5.890E-15	5.010E-11	8.800E-12
Ru-103	7	4.450E+04	3.394E+06	2.251E-14	2.570E-10	2.421E-09
Ru-105	7	3.170E+04	1.598E+04	3.810E-14	4.150E-12	1.230E-10
Ru-106	7	1.850E+04	3.181E+07	1.040E-14	1.720E-09	1.290E-07
Rh-105	7	2.950E+04	1.273E+05	3.720E-15	2.880E-12	2.580E-10
Sb-127	4	2.560E+03	3.326E+05	3.330E-14	6.150E-11	1.630E-09
Sb-129	4	7.910E+03	1.555E+04	7.140E-14	9.720E-12	1.740E-10
Te-127	4	2.530E+03	3.366E+04	2.420E-16	1.840E-12	8.600E-11
Te-127m	4	4.330E+02	9.418E+06	1.470E-16	9.660E-11	5.810E-09
Te-129	4	7.410E+03	4.176E+03	2.750E-15	5.090E-13	2.090E-11
Te-129m	4	1.420E+03	2.903E+06	3.337E-15	1.560E-10	6.484E-09
Te-131m	4	5.380E+03	1.080E+05	7.463E-14	3.610E-08	1.758E-09
Te-132	4	3.860E+04	2.815E+05	1.030E-14	6.280E-08	2.550E-09
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Xe-133	1	5.640E+04	4.532E+05	1.560E-15	0.000E+00	0.000E+00
Xe-133m	1	1.730E+03	1.927E+05	1.370E-15	0.000E+00	0.000E+00
Xe-135	1	2.370E+04	3.272E+04	1.190E-14	0.000E+00	0.000E+00
Xe-135m	1	1.170E+04	9.180E+02	2.040E-14	0.000E+00	0.000E+00
Xe-138	1	5.060E+04	8.520E+02	5.770E-14	0.000E+00	0.000E+00
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

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Ba-139	6	5.200E+04	4.962E+03	2.170E-15	2.400E-12	4.640E-11
Ba-140	6	5.060E+04	1.101E+06	8.580E-15	2.560E-10	1.010E-09
La-140	9	5.110E+04	1.450E+05	1.170E-13	6.870E-11	1.310E-09
La-141	9	4.750E+04	1.415E+04	2.390E-15	9.400E-12	1.570E-10
La-142	9	4.660E+04	5.550E+03	1.440E-13	8.740E-12	6.840E-11
Ce-141	8	4.780E+04	2.808E+06	3.430E-15	2.550E-11	2.420E-09
Ce-143	8	4.660E+04	1.188E+05	1.290E-14	6.230E-12	9.160E-10
Ce-144	8	3.830E+04	2.456E+07	2.773E-15	2.920E-10	1.010E-07
Pr-143	9	4.560E+04	1.172E+06	2.100E-17	1.680E-18	2.190E-09
Nd-147	9	1.860E+04	9.487E+05	6.190E-15	1.820E-11	1.850E-09
Np-239	8	5.450E+05	2.035E+05	7.690E-15	7.620E-12	6.780E-10
Pu-238	8	1.190E+02	2.769E+09	4.880E-18	3.860E-10	7.790E-05
Pu-239	8	1.200E+01	7.594E+11	4.240E-18	3.750E-10	8.330E-05
Pu-240	8	2.120E+01	2.064E+10	4.750E-18	3.760E-10	8.330E-05
Pu-241	8	4.710E+03	4.734E+08	7.250E-20	9.150E-12	1.340E-06
Am-241	9	6.660E+00	1.366E+10	8.180E-16	1.600E-09	1.200E-04
Cm-242	9	1.830E+03	1.408E+07	5.690E-18	9.410E-10	4.670E-06
Cm-244	9	1.210E+02	5.649E+08	4.910E-18	1.010E-09	6.700E-05

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00
Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	9.5000E-01
Elemental	=	4.8500E-02
Organic	=	1.5000E-03

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosal Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00

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3.3330E-01	1.9800E+01
2.2500E+00	0.0000E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.3330E-01	1.9800E+01
2.2500E+00	1.9800E+00
2.4000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00

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2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	3.6000E+00	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	4.8200E+00	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	8.4600E+00	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	4.8890E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	3.6000E+00	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	4.8200E+00	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	8.4600E+00	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	4.8890E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	3.8200E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	5.1200E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	8.9800E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	5.1030E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9670E+01	3.5600E+00	0.0000E+00
8.0000E+00	1.6670E+00	9.9670E+01	4.7800E+00	0.0000E+00
2.4000E+01	8.3330E-01	9.9670E+01	8.3900E+00	0.0000E+00
9.6000E+01	8.3330E-01	9.9670E+01	4.8590E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

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Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	3.8300E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	5.1300E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	8.9800E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	5.1040E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	9.9600E+01	3.6000E+00	0.0000E+00
8.0000E+00	1.6670E+00	9.9600E+01	4.8200E+00	0.0000E+00
2.4000E+01	8.3330E-01	9.9600E+01	8.4600E+00	0.0000E+00
9.6000E+01	8.3330E-01	9.9600E+01	4.8890E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06

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9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate ($\text{m}^3 \cdot \text{sec}^{-1}$)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q ($\text{s} \cdot \text{m}^{-3}$)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate ($\text{m}^3 \cdot \text{sec}^{-1}$)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:10:57
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#####
Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9528E-11	7.4367E-10	5.3639E-11	
Accumulated dose (rem)	2.9528E-11	7.4367E-10	5.3639E-11	

LPZ Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0198E-12	1.0124E-10	7.3021E-12	
Accumulated dose (rem)	4.0198E-12	1.0124E-10	7.3021E-12	

CR Doses:

Time (h) =	0.0167	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6405E-14	6.2940E-12	2.2049E-13	
Accumulated dose (rem)	1.6405E-14	6.2940E-12	2.2049E-13	

CR Compartment Nuclide Inventory:

Time (h) =	0.0167	Ci	kg	Atoms	Decay
Kr-85m	5.4273E-11	6.5949E-21	4.6724E+04	5.6742E+01	
Kr-85	2.7505E-12	7.0171E-18	4.9716E+07	2.8736E+00	
Kr-87	1.0879E-10	3.8406E-21	2.6584E+04	1.1394E+02	
Kr-88	1.4855E-10	1.1847E-20	8.1073E+04	1.5537E+02	
I-131	8.1054E-12	6.5379E-20	3.0055E+05	8.4684E+00	
I-133	1.6798E-11	1.4829E-20	6.7144E+04	1.7553E+01	
I-135	1.5856E-11	4.5150E-21	2.0141E+04	1.6574E+01	
Xe-133	3.3649E-10	1.7977E-18	8.1397E+06	3.5156E+02	
Xe-133m	1.0321E-11	2.3443E-20	1.0615E+05	1.0783E+01	
Xe-135	1.4150E-10	5.5409E-20	2.4717E+05	1.4781E+02	
Xe-138	2.8749E-10	2.9962E-21	1.3075E+04	3.0435E+02	
Cs-134	1.3656E-13	1.0554E-19	4.7433E+05	1.4267E-01	
Cs-137	1.0602E-13	1.2188E-18	5.3576E+06	1.1076E-01	

CR Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump
Noble gases (atoms)	5.8388E+07	0.0000E+00	
Elemental I (atoms)	3.5678E+05	0.0000E+00	
Organic I (atoms)	1.1899E+04	0.0000E+00	
Aerosols (kg)	1.3310E-18	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0612E-21	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3591E-21	
Total I (Ci)		7.1534E-11	

	Deposition	Recirculating
Time (h) =	0.0167	
	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3815E+07
Elemental I (atoms)	0.0000E+00	2.6778E+05
Organic I (atoms)	0.0000E+00	8.9309E+03
Aerosols (kg)	0.0000E+00	9.9876E-19

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4605E+07
Elemental I (atoms)	0.0000E+00	8.9259E+04
Organic I (atoms)	0.0000E+00	2.9770E+03
Aerosols (kg)	0.0000E+00	3.3292E-19

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	
	Filtered	Transported
Noble gases (atoms)	3.2874E+04	0.0000E+00
Elemental I (atoms)	2.0091E+02	0.0000E+00
Organic I (atoms)	6.7008E+00	0.0000E+00
Aerosols (kg)	7.4937E-22	0.0000E+00

EAB Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7019E-08	4.5703E-07	3.1833E-08
Accumulated dose (rem)		1.7049E-08	4.5777E-07	3.1886E-08

LPZ Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3169E-09	6.2218E-08	4.3335E-09
Accumulated dose (rem)		2.3209E-09	6.2319E-08	4.3408E-09

CR Doses:

Time (h) =	0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.2518E-11	4.0448E-09	1.8437E-10
Accumulated dose (rem)		5.2534E-11	4.0510E-09	1.8459E-10

CR Compartment Nuclide Inventory:

Time (h) =	0.0833	Ci	kg	Atoms	Decay
Kr-83m		2.2995E-08	1.1328E-18	8.2190E+06	6.6240E+04
Kr-85m		5.2729E-08	6.4073E-18	4.5395E+07	1.5139E+05
Kr-85		2.6999E-09	6.8881E-15	4.8801E+10	7.7332E+03
Kr-87		1.0298E-07	3.6356E-18	2.5165E+07	2.9744E+05
Kr-88		1.4347E-07	1.1442E-17	7.8299E+07	4.1247E+05
Rb-86		2.2146E-13	2.7217E-21	1.9059E+04	6.4245E-01
Rb-88		7.1531E-09	5.9255E-20	4.0550E+05	1.0455E+04
I-131		1.3143E-09	1.0602E-17	4.8736E+07	3.8130E+03
I-132		1.8738E-09	1.8153E-19	8.2817E+05	5.4580E+03
I-133		2.7185E-09	2.3998E-18	1.0866E+07	7.8905E+03
I-134		2.9279E-09	1.0976E-19	4.9326E+05	8.6005E+03
I-135		2.5539E-09	7.2721E-19	3.2440E+06	7.4208E+03
Xe-133		3.3028E-07	1.7645E-15	7.9894E+09	9.4603E+05
Xe-133m		1.0129E-08	2.3007E-17	1.0417E+08	2.9014E+04
Xe-135		1.3958E-07	5.4658E-17	2.4382E+08	3.9946E+05
Xe-135m		6.1585E-08	6.7651E-19	3.0178E+06	1.8060E+05
Xe-138		2.3219E-07	2.4199E-18	1.0560E+07	6.9605E+05
Cs-134		2.2148E-11	1.7118E-17	7.6933E+07	6.4251E+01
Cs-136		6.7565E-12	9.2188E-20	4.0821E+05	1.9601E+01
Cs-137		1.7195E-11	1.9769E-16	8.6897E+08	4.9882E+01

CR Transport Group Inventory:

Time (h) =	0.0833	Atmosphere	Sump
Noble gases (atoms)		5.7310E+10	0.0000E+00
Elemental I (atoms)		5.7779E+07	0.0000E+00
Organic I (atoms)		1.9270E+06	0.0000E+00
Aerosols (kg)		2.1593E-16	0.0000E+00

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Dose Effective (Ci/cc) I-131 (Thyroid) 1.7192E-19
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 2.1976E-19
Total I (Ci) 1.1388E-08

	Deposition	Recirculating
Time (h) = 0.0833	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.0300E+05
Organic I (atoms)	0.0000E+00	3.4353E+03
Aerosols (kg)	0.0000E+00	3.8474E-19

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8555E+10
Elemental I (atoms)	2.9317E+08	3.2291E+06
Organic I (atoms)	9.7779E+06	1.0770E+05
Aerosols (kg)	1.0948E-15	1.2057E-17

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9981E+09
Elemental I (atoms)	0.0000E+00	5.4929E+07
Organic I (atoms)	0.0000E+00	1.8320E+06
Aerosols (kg)	0.0000E+00	2.0512E-16

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 0.0833	Filtered	Transported
Noble gases (atoms)	2.4079E+08	0.0000E+00
Elemental I (atoms)	2.4682E+05	0.0000E+00
Organic I (atoms)	8.2319E+03	0.0000E+00
Aerosols (kg)	9.2194E-19	0.0000E+00

EAB Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4839E-06	1.1453E-04	7.1923E-06
Accumulated dose (rem)	3.5010E-06	1.1499E-04	7.2241E-06

LPZ Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7428E-07	1.5591E-05	9.7911E-07
Accumulated dose (rem)	4.7660E-07	1.5654E-05	9.8345E-07

CR Doses:

Time (h) = 0.3333	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1429E-08	3.8675E-06	1.6928E-07
Accumulated dose (rem)	4.1481E-08	3.8715E-06	1.6947E-07

CR Compartment Nuclide Inventory:

Time (h) = 0.3333	Ci	kg	Atoms	Decay
Kr-83m	5.2174E-06	2.5702E-16	1.8649E+09	5.1154E+07
Kr-85m	1.2634E-05	1.5352E-15	1.0877E+10	1.2233E+08
Kr-85	6.7243E-07	1.7155E-12	1.2154E+13	6.4536E+06
Kr-87	2.2380E-05	7.9010E-16	5.4691E+09	2.2163E+08
Kr-88	3.3617E-05	2.6809E-15	1.8346E+10	3.2716E+08
Rb-86	5.4573E-11	6.7070E-19	4.6966E+06	5.2441E+02
Rb-88	5.0646E-06	4.1954E-17	2.8711E+08	3.5801E+07
I-131	3.2373E-07	2.6112E-15	1.2004E+10	3.1111E+06
I-132	4.3477E-07	4.2120E-17	1.9216E+08	4.2368E+06
I-133	6.6461E-07	5.8670E-16	2.6565E+09	6.3981E+06
I-134	5.9234E-07	2.2204E-17	9.9789E+07	5.9577E+06
I-135	6.1328E-07	1.7463E-16	7.7901E+08	5.9281E+06
Xe-133	8.2235E-05	4.3933E-13	1.9893E+12	7.8931E+08
Xe-133m	2.5206E-06	5.7253E-15	2.5924E+10	2.4197E+07
Xe-135	3.5356E-05	1.3845E-14	6.1759E+10	3.3822E+08

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Xe-135m	1.1893E-05	1.3064E-16	5.8277E+08	1.2157E+08
Xe-138	2.7807E-05	2.8980E-16	1.2646E+09	3.1849E+08
Cs-134	5.4601E-09	4.2201E-15	1.8966E+10	5.2463E+04
Cs-136	1.6647E-09	2.2714E-17	1.0058E+08	1.5998E+04
Cs-137	4.2390E-09	4.8735E-14	2.1422E+11	4.0731E+04

CR Transport Group Inventory:

Time (h) =	0.3333	Atmosphere	Sump
Noble gases (atoms)	1.4270E+13	0.0000E+00	
Elemental I (atoms)	1.4165E+10	0.0000E+00	
Organic I (atoms)	4.7243E+08	0.0000E+00	
Aerosols (kg)	5.3259E-14	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.2200E-17	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.3591E-17	
Total I (Ci)		2.6287E-06	

		Deposition	Recirculating
Time (h) =	0.3333	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.0027E+08	
Organic I (atoms)	0.0000E+00	3.3442E+06	
Aerosols (kg)	0.0000E+00	3.7644E-16	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2245E+13	
Elemental I (atoms)	7.3688E+10	7.4459E+08	
Organic I (atoms)	2.4576E+09	2.4834E+07	
Aerosols (kg)	2.7640E-13	2.7929E-15	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2676E+12	
Elemental I (atoms)	0.0000E+00	1.3784E+10	
Organic I (atoms)	0.0000E+00	4.5972E+08	
Aerosols (kg)	0.0000E+00	5.1702E-14	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

		Pathway	
Time (h) =	0.3333	Filtered	Transported
Noble gases (atoms)	2.4124E+11	0.0000E+00	
Elemental I (atoms)	2.4008E+08	0.0000E+00	
Organic I (atoms)	8.0070E+06	0.0000E+00	
Aerosols (kg)	9.0132E-16	0.0000E+00	

EAB Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2129E-05	4.2976E-04	2.6033E-05
Accumulated dose (rem)		1.5630E-05	5.4475E-04	3.3257E-05

LPZ Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6511E-06	5.8506E-05	3.5439E-06
Accumulated dose (rem)		2.1277E-06	7.4159E-05	4.5274E-06

CR Doses:

Time (h) =	0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3560E-07	2.4356E-05	1.0480E-06
Accumulated dose (rem)		2.7708E-07	2.8227E-05	1.2175E-06

CR Compartment Nuclide Inventory:

Time (h) =	0.5000	Ci	kg	Atoms	Decay
Kr-83m		2.4358E-05	1.1999E-15	8.7063E+09	3.5502E+08
Kr-85m		6.1165E-05	7.4324E-15	5.2658E+10	8.7491E+08
Kr-85		3.3405E-06	8.5224E-12	6.0380E+13	4.7157E+07

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Kr-87	1.0152E-04	3.5841E-15	2.4809E+10	1.5021E+09
Kr-88	1.6034E-04	1.2787E-14	8.7508E+10	2.3112E+09
Rb-86	2.5524E-10	3.1368E-18	2.1966E+07	3.7391E+03
Rb-88	3.3401E-05	2.7669E-16	1.8935E+09	3.6711E+08
I-131	1.5162E-06	1.2230E-14	5.6221E+10	2.2191E+07
I-132	1.9544E-06	1.8934E-16	8.6383E+08	2.9234E+07
I-133	3.0973E-06	2.7342E-15	1.2380E+10	4.5448E+07
I-134	2.4331E-06	9.1206E-17	4.0989E+08	3.8168E+07
I-135	2.8242E-06	8.0420E-16	3.5874E+09	4.1698E+07
Xe-133	4.0844E-04	2.1820E-12	9.8801E+12	5.7666E+09
Xe-133m	1.2514E-05	2.8425E-14	1.2871E+11	1.7673E+08
Xe-135	1.7726E-04	6.9413E-14	3.0964E+11	2.4922E+09
Xe-135m	5.0577E-05	5.5559E-16	2.4784E+09	7.8275E+08
Xe-138	8.4777E-05	8.8353E-16	3.8556E+09	1.5710E+09
Cs-134	2.5543E-08	1.9742E-14	8.8724E+10	3.7414E+05
Cs-136	7.7850E-09	1.0622E-16	4.7035E+08	1.1405E+05
Cs-137	1.9831E-08	2.2799E-13	1.0022E+12	2.9047E+05

CR Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	7.0878E+13	0.0000E+00	
Elemental I (atoms)	6.6032E+10	0.0000E+00	
Organic I (atoms)	2.3307E+09	0.0000E+00	
Aerosols (kg)	2.4923E-13	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.9720E-16	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.4943E-16	
Total I (Ci)		1.1825E-05	

Deposition Recirculating

Time (h) =	0.5000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	7.3081E+08	
Organic I (atoms)	0.0000E+00	2.4856E+07	
Aerosols (kg)	0.0000E+00	2.7525E-15	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.1338E+13
Elemental I (atoms)	3.4831E+11	3.5185E+09
Organic I (atoms)	1.2277E+10	1.2402E+08
Aerosols (kg)	1.3101E-12	1.3234E-14

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1359E+13
Elemental I (atoms)	0.0000E+00	6.5153E+10
Organic I (atoms)	0.0000E+00	2.2965E+09
Aerosols (kg)	0.0000E+00	2.4506E-13

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	Filtered Transported
Noble gases (atoms)	1.8034E+12	0.0000E+00
Elemental I (atoms)	1.7498E+09	0.0000E+00
Organic I (atoms)	5.9512E+07	0.0000E+00
Aerosols (kg)	6.5903E-15	0.0000E+00

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8841E-03	3.4164E-02	5.9889E-03
Accumulated dose (rem)		4.8998E-03	3.4709E-02	6.0221E-03

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.6490E-04	4.6509E-03	8.1529E-04
Accumulated dose (rem)		6.6703E-04	4.7251E-03	8.1982E-04

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CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.3965E-04	8.0230E-03	7.0956E-04
Accumulated dose (rem)		3.3992E-04	8.0512E-03	7.1077E-04

CR Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Kr-83m		8.3669E-03	4.1218E-13	2.9906E+12	4.9736E+11
Kr-85m		2.9134E-02	3.5402E-12	2.5082E+13	1.6165E+12
Kr-85		2.0068E-03	5.1199E-09	3.6274E+16	1.0624E+11
Kr-87		2.6926E-02	9.5059E-13	6.5800E+12	1.6944E+12
Kr-88		6.6795E-02	5.3269E-12	3.6454E+13	3.8108E+12
Rb-86		1.1928E-08	1.4659E-16	1.0265E+09	9.8147E+05
Rb-88		3.9752E-02	3.2930E-13	2.2535E+12	1.3293E+12
Sr-89		1.6359E-07	5.6308E-15	3.8101E+10	9.4107E+06
Sr-90		1.7520E-08	1.2844E-13	8.5942E+11	1.0077E+06
Sr-91		1.7445E-07	4.8125E-17	3.1848E+08	1.0265E+07
Sr-92		1.2531E-07	9.9696E-18	6.5259E+07	7.8174E+06
Y-90		3.9337E-10	7.2303E-19	4.8380E+06	1.9481E+04
Y-91		2.0932E-09	8.5354E-17	5.6485E+08	1.1980E+05
Y-92		3.0804E-08	3.2013E-18	2.0955E+07	1.4227E+06
Y-93		1.9963E-09	5.9835E-19	3.8746E+06	1.1730E+05
Zr-95		2.4211E-09	1.1270E-16	7.1441E+08	1.3927E+05
Zr-97		2.1535E-09	1.1265E-18	6.9938E+06	1.2545E+05
Nb-95		2.3900E-09	6.1120E-17	3.8745E+08	1.3746E+05
Mo-99		2.9953E-08	6.2452E-17	3.7990E+08	1.7284E+06
Tc-99m		2.6908E-08	5.1174E-18	3.1129E+07	1.5397E+06
Ru-103		2.6444E-08	8.1935E-16	4.7905E+09	1.5213E+06
Ru-105		1.3806E-08	2.0538E-18	1.1779E+07	8.3402E+05
Ru-106		1.1008E-08	3.2903E-15	1.8693E+10	6.3315E+05
Rh-105		1.7504E-08	2.0737E-17	1.1894E+08	1.0070E+06
Sb-127		3.0016E-08	1.1240E-16	5.3297E+08	1.7305E+06
Sb-129		6.8303E-08	1.2146E-17	5.6703E+07	4.1320E+06
Te-127		3.0084E-08	1.1399E-17	5.4055E+07	1.7244E+06
Te-127m		5.1538E-09	5.4639E-16	2.5909E+09	2.9643E+05
Te-129		7.7235E-08	3.6880E-18	1.7217E+07	4.4470E+06
Te-129m		1.6903E-08	5.6108E-16	2.6193E+09	9.7217E+05
Te-131m		6.1143E-08	7.6677E-17	3.5249E+08	3.5420E+06
Te-132		4.5136E-07	1.4867E-15	6.7827E+09	2.6032E+07
I-131		8.4937E-05	6.8512E-13	3.1495E+12	6.6107E+09
I-132		7.7684E-05	7.5260E-15	3.4335E+10	6.6471E+09
I-133		1.6591E-04	1.4646E-13	6.6317E+11	1.3077E+10
I-134		4.1850E-05	1.5688E-15	7.0503E+09	4.7083E+09
I-135		1.3589E-04	3.8695E-14	1.7261E+11	1.1045E+10
Xe-133		2.4391E-01	1.3031E-09	5.9002E+15	1.2929E+13
Xe-133m		7.4081E-03	1.6827E-11	7.6190E+13	3.9345E+11
Xe-135		1.0157E-01	3.9771E-11	1.7741E+14	5.4575E+12
Xe-135m		2.3256E-03	2.5547E-14	1.1396E+11	2.4125E+11
Xe-138		6.2955E-04	6.5611E-15	2.8632E+10	1.1598E+11
Cs-134		1.1964E-06	9.2468E-13	4.1556E+12	9.8379E+07
Cs-136		3.6345E-07	4.9590E-15	2.1959E+10	2.9915E+07
Cs-137		9.2888E-07	1.0679E-11	4.6942E+13	7.6382E+07
Ba-139		9.0550E-08	5.5359E-18	2.3984E+07	6.1345E+06
Ba-140		2.3981E-07	3.2757E-15	1.4091E+10	1.3803E+07
La-140		7.0358E-09	1.2658E-17	5.4450E+07	3.3657E+05
La-141		1.5892E-09	2.8101E-19	1.2002E+06	9.6631E+04
La-142		9.0271E-10	6.3061E-20	2.6744E+05	6.0057E+04
Ce-141		5.6850E-09	1.9952E-16	8.5215E+08	3.2703E+05
Ce-143		5.3183E-09	8.0085E-18	3.3726E+07	3.0789E+05
Ce-144		4.5576E-09	1.4290E-15	5.9760E+09	2.6215E+05
Pr-143		2.1788E-09	3.2356E-17	1.3626E+08	1.2519E+05
Nd-147		8.8088E-10	1.0889E-17	4.4608E+07	5.0707E+04
Np-239		6.3296E-08	2.7284E-16	6.8747E+08	3.6544E+06
Pu-238		1.4164E-11	8.2735E-16	2.0934E+09	8.1466E+02
Pu-239		1.4287E-12	2.2985E-14	5.7917E+10	8.2170E+01
Pu-240		2.5233E-12	1.1079E-15	2.7799E+09	1.4513E+02
Pu-241		5.6059E-10	5.6687E-15	1.4165E+10	3.2244E+04
Am-241		3.1723E-13	9.2599E-17	2.3139E+08	1.8244E+01
Cm-242		8.7094E-11	2.6311E-17	6.5473E+07	5.0096E+03
Cm-244		5.7607E-12	7.0379E-17	1.7370E+08	3.3134E+02

CR Transport Group Inventory:

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Time (h) =	2.0000	Atmosphere	Sump	
Noble gases (atoms)	4.2499E+16	0.0000E+00		
Elemental I (atoms)	3.1974E+12	0.0000E+00		
Organic I (atoms)	5.8233E+11	0.0000E+00		
Aerosols (kg)	1.2169E-11	0.0000E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.0844E-14		
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.3357E-14		
Total I (Ci)		5.0628E-04		

	Deposition	Recirculating	
Time (h) =	2.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	1.9111E+11	
Organic I (atoms)	0.0000E+00	2.4579E+10	
Aerosols (kg)	0.0000E+00	7.2237E-13	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.9018E+16
Elemental I (atoms)	1.9684E+13	1.9883E+11
Organic I (atoms)	3.4001E+12	3.4344E+10
Aerosols (kg)	7.2325E-11	7.3056E-13

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.2256E+15
Elemental I (atoms)	0.0000E+00	3.6820E+12
Organic I (atoms)	0.0000E+00	6.3600E+11
Aerosols (kg)	0.0000E+00	1.3529E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	2.0000	Filtered Transported
Noble gases (atoms)	3.7197E+15	0.0000E+00
Elemental I (atoms)	4.5758E+11	0.0000E+00
Organic I (atoms)	5.8849E+10	0.0000E+00
Aerosols (kg)	1.7296E-12	0.0000E+00

EAB Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0642E-03	1.3569E-02	3.5027E-03
Accumulated dose (rem)		7.9639E-03	4.8278E-02	9.5248E-03

LPZ Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.1714E-04	1.8473E-03	4.7684E-04
Accumulated dose (rem)		1.0842E-03	6.5723E-03	1.2967E-03

CR Doses:

Time (h) =	2.2500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.6774E-04	4.0802E-03	5.1130E-04
Accumulated dose (rem)		6.0767E-04	1.2131E-02	1.2221E-03

CR Compartment Nuclide Inventory:

Time (h) =	2.2500	Ci	kg	Atoms	Decay
Kr-83m		1.1035E-02	5.4362E-13	3.9443E+12	8.3991E+11
Kr-85m		4.0577E-02	4.9306E-12	3.4933E+13	2.8434E+12
Kr-85		2.9053E-03	7.4120E-09	5.2513E+16	1.9248E+11
Kr-87		3.4015E-02	1.2008E-12	8.3122E+12	2.7726E+12
Kr-88		9.0974E-02	7.2552E-12	4.9650E+13	6.5913E+12
Rb-86		1.4064E-08	1.7284E-16	1.2103E+09	1.4261E+06
Rb-88		6.0701E-02	5.0284E-13	3.4411E+12	2.6909E+12
Sr-89		2.1743E-07	7.4840E-15	5.0640E+10	1.6039E+07
Sr-90		2.3290E-08	1.7074E-13	1.1424E+12	1.7177E+06
Sr-91		2.2771E-07	6.2817E-17	4.1571E+08	1.7268E+07

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Sr-92	1.5626E-07	1.2432E-17	8.1376E+07	1.2731E+07
Y-90	5.7258E-10	1.0524E-18	7.0419E+06	3.5803E+04
Y-91	2.7916E-09	1.1383E-16	7.5332E+08	2.0469E+05
Y-92	4.5189E-08	4.6962E-18	3.0741E+07	2.6881E+06
Y-93	2.6086E-09	7.8187E-19	5.0629E+06	1.9749E+05
Zr-95	3.2181E-09	1.4980E-16	9.4957E+08	2.3738E+05
Zr-97	2.8335E-09	1.4822E-18	9.2021E+06	2.1226E+05
Nb-95	3.1770E-09	8.1248E-17	5.1504E+08	2.3431E+05
Mo-99	3.9712E-08	8.2801E-17	5.0367E+08	2.9406E+06
Tc-99m	3.5753E-08	6.7994E-18	4.1360E+07	2.6244E+06
Ru-103	3.5145E-08	1.0890E-15	6.3669E+09	2.5928E+06
Ru-105	1.7650E-08	2.6256E-18	1.5059E+07	1.3823E+06
Ru-106	1.4633E-08	4.3737E-15	2.4848E+10	1.0792E+06
Rh-105	2.3242E-08	2.7536E-17	1.5793E+08	1.7155E+06
Sb-127	3.9826E-08	1.4913E-16	7.0716E+08	2.9456E+06
Sb-129	8.7226E-08	1.5511E-17	7.2412E+07	6.8431E+06
Te-127	3.9983E-08	1.5150E-17	7.1840E+07	2.9395E+06
Te-127m	6.8511E-09	7.2632E-16	3.4441E+09	5.0528E+05
Te-129	1.0027E-07	4.7877E-18	2.2351E+07	7.4712E+06
Te-129m	2.2468E-08	7.4582E-16	3.4818E+09	1.6571E+06
Te-131m	8.0809E-08	1.0134E-16	4.6587E+08	6.0124E+06
Te-132	5.9866E-07	1.9719E-15	8.9964E+09	4.4302E+07
I-131	1.0298E-04	8.3062E-13	3.8184E+12	9.8378E+09
I-132	8.9174E-05	8.6391E-15	3.9413E+10	9.5262E+09
I-133	1.9966E-04	1.7625E-13	7.9804E+11	1.9357E+10
I-134	4.1674E-05	1.5622E-15	7.0207E+09	6.1481E+09
I-135	1.6063E-04	4.5739E-14	2.0403E+11	1.6141E+10
Xe-133	3.5270E-01	1.8843E-09	8.5319E+15	2.3405E+13
Xe-133m	1.0695E-02	2.4292E-11	1.0999E+14	7.1136E+11
Xe-135	1.4507E-01	5.6808E-11	2.5341E+14	9.7950E+12
Xe-135m	2.1653E-03	2.3786E-14	1.0610E+11	3.2399E+11
Xe-138	4.3824E-04	4.5673E-15	1.9931E+10	1.3483E+11
Cs-134	1.4112E-06	1.0907E-12	4.9017E+12	1.4299E+08
Cs-136	4.2847E-07	5.8462E-15	2.5887E+10	4.3464E+07
Cs-137	1.0957E-06	1.2596E-11	5.5370E+13	1.1102E+08
Ba-139	1.0615E-07	6.4895E-18	2.8116E+07	9.5747E+06
Ba-140	3.1860E-07	4.3520E-15	1.8720E+10	2.3518E+07
La-140	1.0424E-08	1.8754E-17	8.0670E+07	6.2985E+05
La-141	2.0215E-09	3.5744E-19	1.5266E+06	1.5958E+05
La-142	1.0724E-09	7.4915E-20	3.1771E+05	9.4587E+04
Ce-141	7.5560E-09	2.6518E-16	1.1326E+09	5.5739E+05
Ce-143	7.0326E-09	1.0590E-17	4.4597E+07	5.2282E+05
Ce-144	6.0584E-09	1.8995E-15	7.9437E+09	4.4684E+05
Pr-143	2.8981E-09	4.3037E-17	1.8124E+08	2.1349E+05
Nd-147	1.1702E-09	1.4465E-17	5.9259E+07	8.6391E+04
Np-239	8.3882E-08	3.6157E-16	9.1107E+08	6.2153E+06
Pu-238	1.8828E-11	1.0998E-15	2.7828E+09	1.3886E+03
Pu-239	1.8992E-12	3.0556E-14	7.6992E+10	1.4007E+02
Pu-240	3.3542E-12	1.4727E-15	3.6953E+09	2.4738E+02
Pu-241	7.4520E-10	7.5355E-15	1.8830E+10	5.4961E+04
Am-241	4.2172E-13	1.2310E-16	3.0761E+08	3.1100E+01
Cm-242	1.1577E-10	3.4973E-17	8.7031E+07	8.5389E+03
Cm-244	7.6577E-12	9.3556E-17	2.3090E+08	5.6478E+02

CR Transport Group Inventory:

Time (h) =	2.2500	Atmosphere	Sump
Noble gases (atoms)	6.1506E+16	0.0000E+00	
Elemental I (atoms)	3.7845E+12	0.0000E+00	
Organic I (atoms)	7.9008E+11	0.0000E+00	
Aerosols (kg)	1.4496E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3109E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.6094E-14	
Total I (Ci)		5.9411E-04	

	Deposition	Recirculating
Time (h) =	2.2500	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.8280E+11
Organic I (atoms)	0.0000E+00	4.2488E+10
Aerosols (kg)	0.0000E+00	1.0714E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

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Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7804E+16	
Elemental I (atoms)	2.4316E+13	2.4561E+11	
Organic I (atoms)	4.7771E+12	4.8254E+10	
Aerosols (kg)	8.9083E-11	8.9983E-13	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0704E+16	
Elemental I (atoms)	0.0000E+00	4.5484E+12	
Organic I (atoms)	0.0000E+00	8.9359E+11	
Aerosols (kg)	0.0000E+00	1.6664E-11	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway		
Time (h) =	2.2500	Filtered	Transported
Noble gases (atoms)	6.9569E+15	0.0000E+00	
Elemental I (atoms)	6.7712E+11	0.0000E+00	
Organic I (atoms)	1.0173E+11	0.0000E+00	
Aerosols (kg)	2.5653E-12	0.0000E+00	

EAB Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3102E-03	9.4677E-03	2.6160E-03	
Accumulated dose (rem)	1.0274E-02	5.7746E-02	1.2141E-02	

LPZ Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1450E-04	1.2889E-03	3.5613E-04	
Accumulated dose (rem)	1.3987E-03	7.8612E-03	1.6528E-03	

CR Doses:

Time (h) =	2.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0634E-04	2.8485E-03	3.9051E-04	
Accumulated dose (rem)	8.1401E-04	1.4980E-02	1.6126E-03	

CR Compartment Nuclide Inventory:

Time (h) =	2.4000	Ci	kg	Atoms	Decay
Kr-83m	1.2991E-02	6.3997E-13	4.6433E+12	1.0943E+12	
Kr-85m	4.9356E-02	5.9974E-12	4.2491E+13	3.7946E+12	
Kr-85	3.6168E-03	9.2273E-09	6.5374E+16	2.6138E+11	
Kr-87	3.9021E-02	1.3776E-12	9.5356E+12	3.5467E+12	
Kr-88	1.0918E-01	8.7073E-12	5.9587E+13	8.7094E+12	
Rb-86	1.5499E-08	1.9048E-16	1.3338E+09	1.7293E+06	
Rb-88	7.4723E-02	6.1900E-13	4.2360E+12	3.8231E+12	
Sr-89	2.5617E-07	8.8177E-15	5.9664E+10	2.0979E+07	
Sr-90	2.7442E-08	2.0118E-13	1.3461E+12	2.2468E+06	
Sr-91	2.6539E-07	7.3212E-17	4.8449E+08	2.2413E+07	
Sr-92	1.7719E-07	1.4097E-17	9.2276E+07	1.6213E+07	
Y-90	7.0955E-10	1.3042E-18	8.7265E+06	4.8869E+04	
Y-91	3.2957E-09	1.3439E-16	8.8933E+08	2.6813E+05	
Y-92	5.5873E-08	5.8066E-18	3.8009E+07	3.7064E+06	
Y-93	3.0422E-09	9.1183E-19	5.9045E+06	2.5645E+05	
Zr-95	3.7916E-09	1.7649E-16	1.1188E+09	3.1050E+05	
Zr-97	3.3182E-09	1.7358E-18	1.0776E+07	2.7644E+05	
Nb-95	3.7435E-09	9.5734E-17	6.0686E+08	3.0649E+05	
Mo-99	4.6719E-08	9.7410E-17	5.9254E+08	3.8422E+06	
Tc-99m	4.2114E-08	8.0091E-18	4.8719E+07	3.4328E+06	
Ru-103	4.1407E-08	1.2830E-15	7.5013E+09	3.3913E+06	
Ru-105	2.0315E-08	3.0222E-18	1.7333E+07	1.7786E+06	
Ru-106	1.7241E-08	5.1535E-15	2.9278E+10	1.4117E+06	
Rh-105	2.7366E-08	3.2422E-17	1.8595E+08	2.2430E+06	
Sb-127	4.6874E-08	1.7552E-16	8.3230E+08	3.8500E+06	
Sb-129	1.0033E-07	1.7842E-17	8.3293E+07	8.8010E+06	
Te-127	4.7105E-08	1.7849E-17	8.4637E+07	3.8451E+06	
Te-127m	8.0726E-09	8.5582E-16	4.0582E+09	6.6094E+05	
Te-129	1.1640E-07	5.5580E-18	2.5946E+07	9.6866E+06	

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Te-129m	2.6474E-08	8.7878E-16	4.1024E+09	2.1676E+06
Te-131m	9.4888E-08	1.1900E-16	5.4703E+08	7.8452E+06
Te-132	7.0446E-07	2.3204E-15	1.0586E+10	5.7894E+07
I-131	1.1559E-04	9.3235E-13	4.2861E+12	1.2090E+10
I-132	9.7009E-05	9.3982E-15	4.2877E+10	1.1452E+10
I-133	2.2311E-04	1.9695E-13	8.9178E+11	2.3713E+10
I-134	4.1568E-05	1.5582E-15	7.0028E+09	7.0073E+09
I-135	1.7758E-04	5.0566E-14	2.2557E+11	1.9627E+10
Xe-133	4.3878E-01	2.3442E-09	1.0614E+16	3.1767E+13
Xe-133m	1.3292E-02	3.0191E-11	1.3670E+14	9.6481E+11
Xe-135	1.7918E-01	7.0164E-11	3.1299E+14	1.3225E+13
Xe-135m	2.1183E-03	2.3270E-14	1.0380E+11	3.7152E+11
Xe-138	3.5161E-04	3.6644E-15	1.5991E+10	1.4321E+11
Cs-134	1.5555E-06	1.2023E-12	5.4031E+12	1.7341E+08
Cs-136	4.7215E-07	6.4421E-15	2.8526E+10	5.2700E+07
Cs-137	1.2077E-06	1.3885E-11	6.1035E+13	1.3464E+08
Ba-139	1.1599E-07	7.0910E-18	3.0722E+07	1.1897E+07
Ba-140	3.7528E-07	5.1262E-15	2.2050E+10	3.0756E+07
La-140	1.3034E-08	2.3449E-17	1.0087E+08	8.6786E+05
La-141	2.3197E-09	4.1017E-19	1.7519E+06	2.0490E+05
La-142	1.1812E-09	8.2515E-20	3.4994E+05	1.1814E+05
Ce-141	8.9025E-09	3.1244E-16	1.3344E+09	7.2906E+05
Ce-143	8.2604E-09	1.2439E-17	5.2384E+07	6.8235E+05
Ce-144	7.1384E-09	2.2381E-15	9.3599E+09	5.8449E+05
Pr-143	3.4160E-09	5.0729E-17	2.1363E+08	2.7933E+05
Nd-147	1.3783E-09	1.7037E-17	6.9797E+07	1.1297E+05
Np-239	9.8656E-08	4.2526E-16	1.0715E+09	8.1194E+06
Pu-238	2.2185E-11	1.2959E-15	3.2790E+09	1.8164E+03
Pu-239	2.2379E-12	3.6005E-14	9.0722E+10	1.8322E+02
Pu-240	3.9523E-12	1.7353E-15	4.3542E+09	3.2359E+02
Pu-241	8.7806E-10	8.8790E-15	2.2187E+10	7.1892E+04
Am-241	4.9694E-13	1.4506E-16	3.6247E+08	4.0682E+01
Cm-242	1.3641E-10	4.1208E-17	1.0254E+08	1.1169E+04
Cm-244	9.0230E-12	1.1024E-16	2.7207E+08	7.3877E+02

CR Transport Group Inventory:

Time (h) =	2.4000	Atmosphere	Sump
Noble gases (atoms)	7.6555E+16	0.0000E+00	
Elemental I (atoms)	4.1808E+12	0.0000E+00	
Organic I (atoms)	9.4952E+11	0.0000E+00	
Aerosols (kg)	1.6061E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.4690E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.8001E-14	
Total I (Ci)		6.5485E-04	

Deposition Recirculating			
Time (h) =	2.4000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00	
Elemental I (atoms)	0.0000E+00	3.4568E+11	
Organic I (atoms)	0.0000E+00	5.6193E+10	
Aerosols (kg)	0.0000E+00	1.3119E-12	

CR Filtered Intake (Pathway 9) Transport Group Inventory:

Pathway			
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.2709E+16	
Elemental I (atoms)	2.7458E+13	2.7736E+11	
Organic I (atoms)	5.8329E+12	5.8919E+10	
Aerosols (kg)	1.0043E-10	1.0145E-12	

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

Pathway			
Time (h) =	2.4000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3465E+16	
Elemental I (atoms)	0.0000E+00	5.1363E+12	
Organic I (atoms)	0.0000E+00	1.0911E+12	
Aerosols (kg)	0.0000E+00	1.8787E-11	

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

Pathway			
Time (h) =	2.4000	Filtered	Transported

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Noble gases (atoms)	9.5573E+15	0.0000E+00
Elemental I (atoms)	8.2766E+11	0.0000E+00
Organic I (atoms)	1.3454E+11	0.0000E+00
Aerosols (kg)	3.1410E-12	0.0000E+00

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5724E-02	1.5855E-01	5.0828E-02	
Accumulated dose (rem)	5.5998E-02	2.1629E-01	6.2969E-02	

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.2246E-03	2.1583E-02	6.9195E-03	
Accumulated dose (rem)	7.6233E-03	2.9445E-02	8.5723E-03	

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.6754E-03	5.6588E-02	1.0378E-02	
Accumulated dose (rem)	6.4895E-03	7.1568E-02	1.1990E-02	

CR Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Kr-83m		4.0115E-02	1.9762E-12	1.4338E+13	6.9806E+12
Kr-85m		2.1600E-01	2.6246E-11	1.8595E+14	3.1345E+13
Kr-85		2.0275E-02	5.1725E-08	3.6647E+17	2.6153E+12
Kr-87		9.1445E-02	3.2284E-12	2.2347E+13	1.8637E+13
Kr-88		4.1417E-01	3.3030E-11	2.2604E+14	6.4599E+13
Rb-86		3.4385E-08	4.2259E-16	2.9592E+09	7.1013E+06
Rb-88		3.4716E-01	2.8758E-12	1.9680E+13	3.8302E+13
Sr-89		8.3891E-07	2.8876E-14	1.9539E+11	1.3777E+08
Sr-90		8.9949E-08	6.5942E-13	4.4123E+12	1.4765E+07
Sr-91		7.7405E-07	2.1353E-16	1.4131E+09	1.3547E+08
Sr-92		3.8574E-07	3.0689E-17	2.0088E+08	8.0103E+07
Y-90		3.6661E-09	6.7384E-18	4.5088E+07	4.7321E+05
Y-91		1.1032E-08	4.4984E-16	2.9769E+09	1.7889E+06
Y-92		2.4617E-07	2.5583E-17	1.6746E+08	3.4278E+07
Y-93		8.9347E-09	2.6780E-18	1.7341E+07	1.5577E+06
Zr-95		1.2419E-08	5.7809E-16	3.6645E+09	2.0393E+06
Zr-97		1.0186E-08	5.3281E-18	3.3079E+07	1.7328E+06
Nb-95		1.2270E-08	3.1380E-16	1.9892E+09	2.0141E+06
Mo-99		1.5058E-07	3.1397E-16	1.9099E+09	2.4944E+07
Tc-99m		1.3742E-07	2.6135E-17	1.5898E+08	2.2489E+07
Ru-103		1.3556E-07	4.2004E-15	2.4559E+10	2.2267E+07
Ru-105		5.1871E-08	7.7166E-18	4.4257E+07	9.7942E+06
Ru-106		5.6506E-08	1.6890E-14	9.5956E+10	9.2760E+06
Rh-105		8.8750E-08	1.0515E-16	6.0306E+08	1.4645E+07
Sb-127		1.5181E-07	5.6847E-16	2.6956E+09	2.5081E+07
Sb-129		2.5441E-07	4.5242E-17	2.1120E+08	4.8232E+07
Te-127		1.5410E-07	5.8391E-17	2.7688E+08	2.5232E+07
Te-127m		2.6461E-08	2.8053E-15	1.3302E+10	4.3434E+06
Te-129		3.2123E-07	1.5339E-17	7.1606E+07	5.6654E+07
Te-129m		8.6744E-08	2.8794E-15	1.3442E+10	1.4241E+07
Te-131m		2.9974E-07	3.7589E-16	1.7280E+09	5.0197E+07
Te-132		2.2766E-06	7.4988E-15	3.4211E+10	3.7657E+08
I-131		3.1046E-04	2.5043E-12	1.1512E+13	5.7159E+10
I-132		1.8551E-04	1.7972E-14	8.1993E+10	4.2857E+10
I-133		5.7131E-04	5.0433E-13	2.2836E+12	1.0834E+11
I-134		3.1686E-05	1.1878E-15	5.3380E+09	1.5348E+10
I-135		4.0555E-04	1.1548E-13	5.1513E+11	8.2734E+10
Xe-133		2.4408E+00	1.3040E-08	5.9044E+16	3.1598E+14
Xe-133m		7.3127E-02	1.6610E-10	7.5209E+14	9.5158E+12
Xe-135		9.1112E-01	3.5678E-10	1.5915E+15	1.2321E+14
Xe-135m		1.5841E-03	1.7402E-14	7.7627E+10	8.0673E+11
Xe-138		1.8178E-05	1.8945E-16	8.2673E+08	1.7095E+11
Cs-134		3.4593E-06	2.6737E-12	1.2016E+13	7.1330E+08
Cs-136		1.0464E-06	1.4277E-14	6.3219E+10	2.1625E+08
Cs-137		2.6860E-06	3.0880E-11	1.3574E+14	5.5383E+08
Ba-139		1.7004E-07	1.0396E-17	4.5038E+07	4.5639E+07
Ba-140		1.2256E-06	1.6742E-14	7.2015E+10	2.0158E+08
La-140		7.1392E-08	1.2844E-16	5.5250E+08	8.9687E+06

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La-141	5.7340E-09	1.0139E-18	4.3304E+06	1.1034E+06
La-142	1.8858E-09	1.3173E-19	5.5867E+05	4.7766E+05
Ce-141	2.9151E-08	1.0231E-15	4.3695E+09	4.7876E+06
Ce-143	2.6181E-08	3.9425E-17	1.6603E+08	4.3766E+06
Ce-144	2.3395E-08	7.3349E-15	3.0675E+10	3.8405E+06
Pr-143	1.1243E-08	1.6697E-16	7.0314E+08	1.8409E+06
Nd-147	4.4988E-09	5.5610E-17	2.2782E+08	7.4014E+05
Np-239	3.1709E-07	1.3668E-15	3.4440E+09	5.2605E+07
Pu-238	7.2720E-11	4.2477E-15	1.0748E+10	1.1937E+04
Pu-239	7.3371E-12	1.1804E-13	2.9744E+11	1.2042E+03
Pu-240	1.2955E-11	5.6878E-15	1.4272E+10	2.1265E+03
Pu-241	2.8781E-09	2.9103E-14	7.2724E+10	4.7243E+05
Am-241	1.6296E-12	4.7569E-16	1.1887E+09	2.6743E+02
Cm-242	4.4699E-10	1.3503E-16	3.3603E+08	7.3383E+04
Cm-244	2.9575E-11	3.6133E-16	8.9179E+08	4.8547E+03

CR Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump	
Noble gases (atoms)		4.2830E+17	0.0000E+00	
Elemental I (atoms)		9.3829E+12	0.0000E+00	
Organic I (atoms)		4.2900E+12	0.0000E+00	
Aerosols (kg)		3.7514E-11	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.8785E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.6728E-14	
Total I (Ci)			1.5045E-03	

	Deposition	Recirculating
Time (h) =	4.0000	Surfaces Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.4743E+12
Organic I (atoms)	0.0000E+00	4.5611E+11
Aerosols (kg)	0.0000E+00	5.7271E-12

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.4556E+17
Elemental I (atoms)	7.4095E+13	7.4843E+11
Organic I (atoms)	2.9955E+13	3.0258E+11
Aerosols (kg)	2.6940E-10	2.7212E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.2511E+16
Elemental I (atoms)	0.0000E+00	1.3860E+13
Organic I (atoms)	0.0000E+00	5.6033E+12
Aerosols (kg)	0.0000E+00	5.0393E-11

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) =	4.0000	Filtered Transported
Noble gases (atoms)	9.9211E+16	0.0000E+00
Elemental I (atoms)	3.5299E+12	0.0000E+00
Organic I (atoms)	1.0921E+12	0.0000E+00
Aerosols (kg)	1.3712E-11	0.0000E+00

EAB Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1553E-01	7.6632E-01	2.3995E-01
Accumulated dose (rem)		2.7153E-01	9.8262E-01	3.0292E-01

LPZ Doses:

Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9341E-02	1.0432E-01	3.2665E-02
Accumulated dose (rem)		3.6964E-02	1.3377E-01	4.1238E-02

CR Doses:

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Time (h) =	8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.0355E-02	4.2273E-01	9.1356E-02
Accumulated dose (rem)		5.6845E-02	4.9430E-01	1.0335E-01

CR Compartment Nuclide Inventory:

Time (h) =	8.0000	Ci	kg	Atoms	Decay
Kr-83m		5.8087E-02	2.8615E-12	2.0762E+13	3.7937E+13
Kr-85m		7.4785E-01	9.0874E-11	6.4383E+14	3.0215E+14
Kr-85		1.3035E-01	3.3255E-07	2.3561E+18	3.9745E+13
Kr-87		6.6439E-02	2.3456E-12	1.6236E+13	6.8761E+13
Kr-88		1.0031E+00	7.9996E-11	5.4744E+14	4.8721E+14
Rb-86		7.1742E-08	8.8170E-16	6.1741E+09	3.6999E+07
Rb-88		9.8745E-01	8.1799E-12	5.5978E+13	3.6753E+14
Sr-89		2.1827E-06	7.5129E-14	5.0836E+11	9.8940E+08
Sr-90		2.3456E-07	1.7196E-12	1.1506E+13	1.0620E+08
Sr-91		1.5076E-06	4.1589E-16	2.7522E+09	8.0379E+08
Sr-92		3.6160E-07	2.8769E-17	1.8831E+08	3.0797E+08
Y-90		1.8837E-08	3.4624E-17	2.3168E+08	6.2146E+06
Y-91		3.0104E-08	1.2275E-15	8.1234E+09	1.3304E+07
Y-92		6.0446E-07	6.2819E-17	4.1120E+08	2.8738E+08
Y-93		1.7706E-08	5.3071E-18	3.4366E+07	9.3456E+06
Zr-95		3.2327E-08	1.5048E-15	9.5390E+09	1.4650E+07
Zr-97		2.2542E-08	1.1792E-17	7.3209E+07	1.1171E+07
Nb-95		3.1998E-08	8.1830E-16	5.1873E+09	1.4486E+07
Mo-99		3.7653E-07	7.8507E-16	4.7756E+09	1.7439E+08
Tc-99m		3.5152E-07	6.6851E-17	4.0665E+08	1.6001E+08
Ru-103		3.5248E-07	1.0921E-14	6.3855E+10	1.5983E+08
Ru-105		7.2442E-08	1.0777E-17	6.1809E+07	4.7281E+07
Ru-106		1.4731E-07	4.4031E-14	2.5015E+11	6.6703E+07
Rh-105		2.2155E-07	2.6248E-16	1.5054E+09	1.0276E+08
Sb-127		3.8418E-07	1.4386E-15	6.8216E+09	1.7678E+08
Sb-129		3.4920E-07	6.2097E-17	2.8989E+08	2.3044E+08
Te-127		3.9846E-07	1.5098E-16	7.1594E+08	1.8062E+08
Te-127m		6.9004E-08	7.3155E-15	3.4689E+10	3.1240E+07
Te-129		5.2697E-07	2.5163E-17	1.1747E+08	3.0315E+08
Te-129m		2.2580E-07	7.4953E-15	3.4991E+10	1.0233E+08
Te-131m		7.1263E-07	8.9369E-16	4.1083E+09	3.3932E+08
Te-132		5.7299E-06	1.8874E-14	8.6106E+10	2.6444E+09
I-131		9.5849E-04	7.7313E-12	3.5541E+13	3.9803E+11
I-132		2.5390E-04	2.4598E-14	1.1222E+11	1.7132E+11
I-133		1.5655E-03	1.3820E-12	6.2575E+12	6.9362E+11
I-134		4.1978E-06	1.5736E-16	7.0719E+08	2.3467E+10
I-135		8.3474E-04	2.3769E-13	1.0603E+12	4.3616E+11
Xe-133		1.5370E+01	8.2115E-08	3.7181E+17	4.7280E+15
Xe-133m		4.4707E-01	1.0155E-09	4.5980E+15	1.3926E+14
Xe-135		4.3950E+00	1.7210E-09	7.6772E+15	1.5210E+15
Xe-135m		1.3989E-03	1.5367E-14	6.8549E+10	1.7206E+12
Xe-138		9.5469E-10	9.9496E-21	4.3419E+04	1.7206E+11
Cs-134		7.2613E-06	5.6123E-12	2.5222E+13	3.7313E+09
Cs-136		2.1774E-06	2.9710E-14	1.3156E+11	1.1247E+09
Cs-137		5.6390E-06	6.4829E-11	2.8497E+14	2.8974E+09
Ba-139		5.9321E-08	3.6267E-18	1.5712E+07	1.0995E+08
Ba-140		3.1673E-06	4.3264E-14	1.8610E+11	1.4410E+09
La-140		3.8005E-07	6.8376E-16	2.9412E+09	1.2383E+08
La-141		7.3846E-09	1.3058E-18	5.5770E+06	5.0769E+06
La-142		8.1414E-10	5.6873E-20	2.4120E+05	1.2578E+06
Ce-141		7.5789E-08	2.6599E-15	1.1360E+10	3.4369E+07
Ce-143		6.2772E-08	9.4525E-17	3.9807E+08	2.9751E+07
Ce-144		6.0982E-08	1.9120E-14	7.9960E+10	2.7615E+07
Pr-143		2.9616E-08	4.3980E-16	1.8521E+09	1.3334E+07
Nd-147		1.1609E-08	1.4350E-16	5.8787E+08	5.2857E+06
Np-239		7.8731E-07	3.3937E-15	8.5512E+09	3.6605E+08
Pu-238		1.8964E-10	1.1077E-14	2.8029E+10	8.5855E+04
Pu-239		1.9144E-11	3.0800E-13	7.7607E+11	8.6646E+03
Pu-240		3.3783E-11	1.4832E-14	3.7218E+10	1.5295E+04
Pu-241		7.5052E-09	7.5892E-14	1.8964E+11	3.3979E+06
Am-241		4.2551E-12	1.2421E-15	3.1037E+09	1.9251E+03
Cm-242		1.1648E-09	3.5188E-16	8.7565E+08	5.2755E+05
Cm-244		7.7124E-11	9.4224E-16	2.3255E+09	3.4917E+04

CR Transport Group Inventory:

Time (h) =	8.0000	Atmosphere	Sump
Noble gases (atoms)		2.7414E+18	0.0000E+00

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Elemental I (atoms)	1.9135E+13	0.0000E+00	
Organic I (atoms)	2.2350E+13	0.0000E+00	
Aerosols (kg)	8.1350E-11	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1538E-13	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.3492E-13	
Total I (Ci)		3.6168E-03	

	Deposition	Recirculating
Time (h) = 8.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	7.8032E+12
Organic I (atoms)	0.0000E+00	5.7213E+12
Aerosols (kg)	0.0000E+00	3.1965E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6264E+18
Elemental I (atoms)	2.3628E+14	2.3867E+12
Organic I (atoms)	2.1532E+14	2.1750E+12
Aerosols (kg)	8.7433E-10	8.8316E-12

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7156E+17
Elemental I (atoms)	0.0000E+00	4.4198E+13
Organic I (atoms)	0.0000E+00	4.0277E+13
Aerosols (kg)	0.0000E+00	1.6355E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 8.0000	Filtered	Transported
Noble gases (atoms)	1.5495E+18	0.0000E+00
Elemental I (atoms)	1.8683E+13	0.0000E+00
Organic I (atoms)	1.3698E+13	0.0000E+00
Aerosols (kg)	7.6534E-11	0.0000E+00

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5223E-01	2.4405E+00	5.2890E-01
Accumulated dose (rem)	7.2376E-01	3.4232E+00	8.3182E-01

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1423E-02	1.1497E-01	4.5034E-02
Accumulated dose (rem)	7.8387E-02	2.4873E-01	8.6272E-02

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.2264E-02	9.5884E-01	1.6834E-01
Accumulated dose (rem)	1.4911E-01	1.4531E+00	2.7168E-01

CR Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Kr-83m	4.0355E-03	1.9880E-13	1.4424E+12	5.8154E+13
Kr-85m	2.9705E-01	3.6096E-11	2.5574E+14	7.9226E+14
Kr-85	1.7852E-01	4.5543E-07	3.2267E+18	1.9499E+14
Kr-87	1.1621E-03	4.1025E-14	2.8398E+11	8.4858E+13
Kr-88	1.9496E-01	1.5548E-11	1.0640E+14	9.8062E+14
Rb-86	2.8495E-08	3.5021E-16	2.4523E+09	8.2222E+07
Rb-88	5.6380E-01	4.6705E-12	3.1962E+13	7.9012E+14
Sr-89	9.8632E-07	3.3950E-14	2.2972E+11	2.4416E+09
Sr-90	1.0648E-07	7.8059E-13	5.2232E+12	2.6256E+08
Sr-91	3.8177E-07	1.0532E-16	6.9695E+08	1.5951E+09
Sr-92	2.1213E-08	1.6877E-18	1.1047E+07	4.2456E+08
Y-90	1.6586E-08	3.0485E-17	2.0398E+08	2.3651E+07

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Y-91	1.4443E-08	5.8895E-16	3.8975E+09	3.3902E+07
Y-92	1.0054E-07	1.0449E-17	6.8398E+07	5.6850E+08
Y-93	4.6419E-09	1.3913E-18	9.0094E+06	1.8765E+07
Zr-95	1.4622E-08	6.8064E-16	4.3147E+09	3.6166E+07
Zr-97	7.3708E-09	3.8557E-18	2.3938E+07	2.4264E+07
Nb-95	1.4526E-08	3.7147E-16	2.3548E+09	3.5814E+07
Mo-99	1.5716E-07	3.2767E-16	1.9932E+09	4.1650E+08
Tc-99m	1.5256E-07	2.9014E-17	1.7649E+08	3.8473E+08
Ru-103	1.5907E-07	4.9288E-15	2.8817E+10	3.9421E+08
Ru-105	9.4321E-09	1.4032E-18	8.0477E+06	7.7190E+07
Ru-106	6.6830E-08	1.9976E-14	1.1349E+11	1.6488E+08
Rh-105	8.8667E-08	1.0505E-16	6.0250E+08	2.4300E+08
Sb-127	1.6424E-07	6.1502E-16	2.9163E+09	4.2635E+08
Sb-129	4.3916E-08	7.8095E-18	3.6457E+07	3.7295E+08
Te-127	1.7706E-07	6.7090E-17	3.1813E+08	4.4012E+08
Te-127m	3.1323E-08	3.3207E-15	1.5746E+10	7.7237E+07
Te-129	1.4327E-07	6.8414E-18	3.1938E+07	5.4485E+08
Te-129m	1.0194E-07	3.3837E-15	1.5796E+10	2.5251E+08
Te-131m	2.6891E-07	3.3723E-16	1.5503E+09	7.7843E+08
Te-132	2.4231E-06	7.9814E-15	3.6413E+10	6.3493E+09
I-131	7.3845E-04	5.9564E-12	2.7382E+13	1.1968E+12
I-132	7.2802E-05	7.0530E-15	3.2177E+10	2.9679E+11
I-133	9.5035E-04	8.3893E-13	3.7986E+12	1.8588E+12
I-134	5.9564E-09	2.2328E-19	1.0035E+06	2.4083E+10
I-135	2.8591E-04	8.1412E-14	3.6317E+11	9.1927E+11
Xe-133	2.0173E+01	1.0777E-07	4.8799E+17	2.2623E+16
Xe-133m	5.5234E-01	1.2546E-09	5.6807E+15	6.4339E+14
Xe-135	3.2924E+00	1.2892E-09	5.7511E+15	5.3720E+15
Xe-135m	2.3043E-04	2.5313E-15	1.1292E+10	2.2933E+12
Cs-134	2.9192E-06	2.2562E-12	1.0140E+13	8.3319E+09
Cs-136	8.6034E-07	1.1739E-14	5.1979E+10	2.4943E+09
Cs-137	2.2676E-06	2.6070E-11	1.1460E+14	6.4706E+09
Ba-139	4.8196E-10	2.9465E-20	1.2766E+05	1.2195E+08
Ba-140	1.4120E-06	1.9287E-14	8.2964E+10	3.5359E+09
La-140	3.3203E-07	5.9735E-16	2.5695E+09	4.7489E+08
La-141	8.1763E-10	1.4458E-19	6.1749E+05	7.9664E+06
Ce-141	3.4176E-08	1.1994E-15	5.1228E+09	8.4748E+07
Ce-143	2.4088E-08	3.6273E-17	1.5276E+08	6.8703E+07
Ce-144	2.7661E-08	8.6725E-15	3.6269E+10	6.8253E+07
Pr-143	1.3656E-08	2.0279E-16	8.5401E+08	3.3206E+07
Nd-147	5.1602E-09	6.3786E-17	2.6131E+08	1.2954E+07
Np-239	3.2400E-07	1.3966E-15	3.5191E+09	8.6925E+08
Pu-238	8.6091E-11	5.0288E-15	1.2724E+10	2.1228E+05
Pu-239	8.6995E-12	1.3996E-13	3.5266E+11	2.1432E+04
Pu-240	1.5336E-11	6.7333E-15	1.6895E+10	3.7815E+04
Pu-241	3.4069E-09	3.4450E-14	8.6085E+10	8.4010E+06
Am-241	1.9366E-12	5.6528E-16	1.4125E+09	4.7646E+03
Cm-242	5.2802E-10	1.5951E-16	3.9694E+08	1.3036E+06
Cm-244	3.5010E-11	4.2772E-16	1.0557E+09	8.6329E+04

CR Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump
Noble gases (atoms)	3.7265E+18	0.0000E+00
Elemental I (atoms)	7.0015E+12	0.0000E+00
Organic I (atoms)	2.4012E+13	0.0000E+00
Aerosols (kg)	3.4208E-11	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		8.3915E-14
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.4440E-14
Total I (Ci)		2.0475E-03

	Deposition	Recirculating
Time (h) = 16.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	1.7167E+13
Organic I (atoms)	0.0000E+00	2.3233E+13
Aerosols (kg)	0.0000E+00	7.3348E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5912E+18
Elemental I (atoms)	3.4036E+14	3.4380E+12
Organic I (atoms)	5.3352E+14	5.3890E+12

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Aerosols (kg) 1.2953E-09 1.3084E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7762E+18
Elemental I (atoms)	0.0000E+00	6.3667E+13
Organic I (atoms)	0.0000E+00	9.9797E+13
Aerosols (kg)	0.0000E+00	2.4230E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	7.6109E+18	0.0000E+00
Elemental I (atoms)	4.1103E+13	0.0000E+00
Organic I (atoms)	5.5627E+13	0.0000E+00
Aerosols (kg)	1.7562E-10	0.0000E+00

EAB Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4006E-01	2.9122E+00	4.3063E-01
Accumulated dose (rem)	1.0638E+00	6.3354E+00	1.2625E+00

LPZ Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1149E-02	1.3718E-01	3.5415E-02
Accumulated dose (rem)	1.0954E-01	3.8592E-01	1.2169E-01

CR Doses:

Time (h) = 24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3281E-02	9.7477E-01	1.1462E-01
Accumulated dose (rem)	2.1239E-01	2.4279E+00	3.8630E-01

CR Compartment Nuclide Inventory:

Time (h) = 24.0000	Ci	kg	Atoms	Decay
Kr-83m	2.9113E-04	1.4342E-14	1.0406E+11	5.9744E+13
Kr-85m	1.2252E-01	1.4888E-11	1.0548E+14	1.0120E+15
Kr-85	2.5386E-01	6.4765E-07	4.5885E+18	4.3311E+14
Kr-87	2.1106E-05	7.4511E-16	5.1577E+09	8.5176E+13
Kr-88	3.9347E-02	3.1379E-12	2.1474E+13	1.0891E+15
Rb-86	1.6917E-08	2.0791E-16	1.4559E+09	1.0496E+08
Rb-88	1.1415E-01	9.4556E-13	6.4708E+12	8.8102E+14
Sr-89	6.7399E-07	2.3199E-14	1.5698E+11	3.2882E+09
Sr-90	7.3093E-08	5.3584E-13	3.5855E+12	3.5416E+08
Sr-91	1.4619E-07	4.0329E-17	2.6689E+08	1.8483E+09
Sr-92	1.8818E-09	1.4971E-19	9.7998E+05	4.3278E+08
Y-90	1.6440E-08	3.0218E-17	2.0219E+08	4.0435E+07
Y-91	1.0179E-08	4.1508E-16	2.7469E+09	4.6474E+07
Y-92	1.8362E-08	1.9083E-18	1.2491E+07	6.1816E+08
Y-93	1.8403E-09	5.5159E-19	3.5717E+06	2.1889E+07
Zr-95	1.0002E-08	4.6556E-16	2.9512E+09	4.8724E+07
Zr-97	3.6445E-09	1.9064E-18	1.1836E+07	2.9724E+07
Nb-95	9.9712E-09	2.5500E-16	1.6164E+09	4.8304E+07
Mo-99	9.9189E-08	2.0681E-16	1.2580E+09	5.4650E+08
Tc-99m	9.9353E-08	1.8895E-17	1.1494E+08	5.0635E+08
Ru-103	1.0856E-07	3.3636E-15	1.9666E+10	5.3067E+08
Ru-105	1.8571E-09	2.7627E-19	1.5845E+06	8.1996E+07
Ru-106	4.5848E-08	1.3704E-14	7.7856E+10	2.2235E+08
Rh-105	5.2567E-08	6.2279E-17	3.5719E+08	3.1428E+08
Sb-127	1.0618E-07	3.9760E-16	1.8854E+09	5.6373E+08
Sb-129	8.3518E-09	1.4852E-18	6.9334E+06	3.9504E+08
Te-127	1.1848E-07	4.4893E-17	2.1288E+08	5.8556E+08
Te-127m	2.1499E-08	2.2792E-15	1.0808E+10	1.0418E+08
Te-129	7.1844E-08	3.4306E-18	1.6015E+07	6.2581E+08
Te-129m	6.9521E-08	2.3077E-15	1.0773E+10	3.3993E+08
Te-131m	1.5344E-07	1.9243E-16	8.8461E+08	9.9082E+08
Te-132	1.5495E-06	5.1039E-15	2.3285E+10	8.3659E+09
I-131	8.5186E-04	6.8712E-12	3.1587E+13	2.0591E+12

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I-132	6.9966E-05	6.7782E-15	3.0924E+10	3.8422E+11
I-133	8.6383E-04	7.6256E-13	3.4528E+12	2.8436E+12
I-135	1.4663E-04	4.1753E-14	1.8625E+11	1.1460E+12
Xe-133	2.7487E+01	1.4685E-07	6.6491E+17	4.8932E+16
Xe-133m	7.0830E-01	1.6088E-09	7.2847E+15	1.3414E+15
Xe-135	2.5488E+00	9.9805E-10	4.4522E+15	8.6093E+15
Xe-135m	9.9431E-05	1.0923E-15	4.8724E+09	2.6328E+12
Cs-134	1.7541E-06	1.3558E-12	6.0930E+12	1.0674E+10
Cs-136	5.0809E-07	6.9325E-15	3.0697E+10	3.1791E+09
Cs-137	1.3630E-06	1.5670E-11	6.8881E+13	8.2903E+09
Ba-140	9.5187E-07	1.3002E-14	5.5929E+10	4.7403E+09
La-140	3.2133E-07	5.7810E-16	2.4867E+09	8.0652E+08
La-141	1.3690E-10	2.4207E-20	1.0339E+05	8.3591E+06
Ce-141	2.3298E-08	8.1767E-16	3.4923E+09	1.1405E+08
Ce-143	1.3978E-08	2.1049E-17	8.8642E+07	8.7874E+07
Ce-144	1.8973E-08	5.9486E-15	2.4877E+10	9.2039E+07
Pr-143	9.4687E-09	1.4061E-16	5.9216E+08	4.4993E+07
Nd-147	3.4686E-09	4.2876E-17	1.7565E+08	1.7350E+07
Np-239	2.0163E-07	8.6915E-16	2.1900E+09	1.1355E+09
Pu-238	5.9101E-11	3.4522E-15	8.7352E+09	2.8634E+05
Pu-239	5.9775E-12	9.6169E-14	2.4232E+11	2.8919E+04
Pu-240	1.0528E-11	4.6222E-15	1.1598E+10	5.1008E+04
Pu-241	2.3386E-09	2.3648E-14	5.9092E+10	1.1332E+07
Am-241	1.3328E-12	3.8903E-16	9.7212E+08	6.4323E+03
Cm-242	3.6196E-10	1.0935E-16	2.7210E+08	1.7575E+06
Cm-244	2.4032E-11	2.9361E-16	7.2465E+08	1.1645E+05

CR Transport Group Inventory:

Time (h) = 24.0000	Atmosphere	Sump
Noble gases (atoms)	5.2653E+18	0.0000E+00
Elemental I (atoms)	3.8855E+12	0.0000E+00
Organic I (atoms)	3.1048E+13	0.0000E+00
Aerosols (kg)	1.8787E-11	0.0000E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	9.2717E-14
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.0173E-13
Total I (Ci)		1.9323E-03

	Deposition	Recirculating
Time (h) = 24.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.1601E+13
Organic I (atoms)	0.0000E+00	4.6877E+13
Aerosols (kg)	0.0000E+00	9.4583E-11

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8659E+19
Elemental I (atoms)	4.0255E+14	4.0662E+12
Organic I (atoms)	9.8543E+14	9.9539E+12
Aerosols (kg)	1.5697E-09	1.5856E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4554E+18
Elemental I (atoms)	0.0000E+00	7.5300E+13
Organic I (atoms)	0.0000E+00	1.8433E+14
Aerosols (kg)	0.0000E+00	2.9362E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	1.6789E+19	0.0000E+00
Elemental I (atoms)	5.1720E+13	0.0000E+00
Organic I (atoms)	1.1224E+14	0.0000E+00
Aerosols (kg)	2.2646E-10	0.0000E+00

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	7.6301E-01	1.1387E+01	1.1132E+00
Accumulated dose (rem)	1.8268E+00	1.7723E+01	2.3757E+00

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9430E-02	2.8864E-01	3.8307E-02
Accumulated dose (rem)	1.3897E-01	6.7456E-01	1.5999E-01

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9982E-02	1.7657E+00	1.2623E-01
Accumulated dose (rem)	2.8237E-01	4.1936E+00	5.1253E-01

CR Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Kr-85m	7.6094E-07	9.2465E-17	6.5510E+08	1.0747E+15
Kr-85	1.0851E-01	2.7684E-07	1.9614E+18	1.5184E+15
Kr-88	3.9290E-10	3.1333E-20	2.1442E+05	1.1031E+15
Rb-86	2.0595E-09	2.5311E-17	1.7724E+08	1.3595E+08
Rb-88	1.1430E-09	9.4684E-21	6.4795E+04	8.9489E+14
Sr-89	1.2281E-07	4.2274E-15	2.8604E+10	4.8316E+09
Sr-90	1.3876E-08	1.0173E-13	6.8068E+11	5.2445E+08
Sr-91	1.4518E-10	4.0050E-20	2.6504E+05	1.9436E+09
Y-90	8.9675E-09	1.6482E-17	1.1029E+08	1.1225E+08
Y-91	1.9315E-09	7.8760E-17	5.2121E+08	7.0438E+07
Zr-95	1.8384E-09	8.5574E-17	5.4246E+08	7.1711E+07
Zr-97	3.6110E-11	1.8889E-20	1.1727E+05	3.3185E+07
Nb-95	1.8909E-09	4.8356E-17	3.0653E+08	7.1518E+07
Mo-99	8.8419E-09	1.8435E-17	1.1214E+08	7.1880E+08
Tc-99m	9.0650E-09	1.7240E-18	1.0487E+07	6.7297E+08
Ru-103	1.9550E-08	6.0576E-16	3.5417E+09	7.7805E+08
Ru-106	8.6566E-09	2.5875E-15	1.4700E+10	3.2892E+08
Rh-105	2.4460E-09	2.8979E-18	1.6621E+07	3.8818E+08
Sb-127	1.1748E-08	4.3991E-17	2.0860E+08	7.6328E+08
Te-127	1.5249E-08	5.7780E-18	2.7399E+07	8.1482E+08
Te-127m	4.0580E-09	4.3021E-16	2.0400E+09	1.5417E+08
Te-129	1.0731E-08	5.1243E-19	2.3922E+06	7.3225E+08
Te-129m	1.2410E-08	4.1196E-16	1.9232E+09	4.9778E+08
Te-131m	5.5203E-09	6.9228E-18	3.1825E+07	1.1904E+09
Te-132	1.5542E-07	5.1194E-16	2.3356E+09	1.1174E+10
I-131	2.4669E-04	1.9899E-12	9.1476E+12	4.8935E+12
I-132	1.2190E-05	1.1809E-15	5.3876E+09	5.8471E+11
I-133	2.9364E-05	2.5921E-14	1.1737E+11	4.1504E+12
I-135	2.8882E-08	8.2243E-18	3.6687E+07	1.2355E+12
Xe-133	7.9711E+00	4.2585E-08	1.9282E+17	1.4721E+17
Xe-133m	1.1925E-01	2.7087E-10	1.2265E+15	3.3559E+15
Xe-135	4.5070E-03	1.7649E-12	7.8728E+12	1.0929E+16
Xe-135m	1.7093E-08	1.8777E-19	8.3761E+05	2.7075E+12
Cs-134	2.3807E-07	1.8400E-13	8.2693E+11	1.4024E+10
Cs-136	5.8998E-08	8.0498E-16	3.5645E+09	4.0933E+09
Cs-137	1.8546E-07	2.1322E-12	9.3724E+12	1.0896E+10
Ba-140	1.5352E-07	2.0970E-15	9.0205E+09	6.8128E+09
La-140	1.3497E-07	2.4283E-16	1.0446E+09	2.0341E+09
Ce-141	4.1504E-09	1.4566E-16	6.2213E+08	1.6690E+08
Ce-143	5.8498E-10	8.8088E-19	3.7096E+06	1.0687E+08
Ce-144	3.5763E-09	1.1213E-15	4.6893E+09	1.3611E+08
Pr-143	1.7318E-09	2.5718E-17	1.0831E+08	6.6965E+07
Nd-147	5.4498E-10	6.7366E-18	2.7598E+07	2.4822E+07
Np-239	1.5833E-08	6.8249E-17	1.7197E+08	1.4706E+09
Pu-238	1.1226E-11	6.5573E-16	1.6592E+09	4.2406E+05
Pu-239	1.1410E-12	1.8357E-14	4.6256E+10	4.2882E+04
Pu-240	1.9990E-12	8.7768E-16	2.2023E+09	7.5537E+04
Pu-241	4.4389E-10	4.4886E-15	1.1216E+10	1.6780E+07
Am-241	2.5888E-13	7.5568E-17	1.8883E+08	9.5672E+03
Cm-242	6.7858E-11	2.0499E-17	5.1013E+07	2.5963E+06
Cm-244	4.5618E-12	5.5733E-17	1.3755E+08	1.7243E+05

CR Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	2.1554E+18	0.0000E+00
Elemental I (atoms)	3.2160E+11	0.0000E+00

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Organic I (atoms)	8.9159E+12	0.0000E+00	
Aerosols (kg)	2.4632E-12	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.3326E-14	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.3634E-14	
Total I (Ci)		2.8828E-04	

	Deposition	Recirculating
Time (h) = 96.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.6422E+13
Organic I (atoms)	0.0000E+00	1.3022E+14
Aerosols (kg)	0.0000E+00	1.2281E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1581E+19
Elemental I (atoms)	4.6875E+14	4.7349E+12
Organic I (atoms)	2.3292E+15	2.3527E+13
Aerosols (kg)	1.9728E-09	1.9927E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5521E+18
Elemental I (atoms)	0.0000E+00	8.7683E+13
Organic I (atoms)	0.0000E+00	4.3569E+14
Aerosols (kg)	0.0000E+00	3.6903E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	5.8816E+19	0.0000E+00
Elemental I (atoms)	6.3263E+13	0.0000E+00
Organic I (atoms)	3.1179E+14	0.0000E+00
Aerosols (kg)	2.9404E-10	0.0000E+00

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2727E+00	2.9666E+01	2.1861E+00
Accumulated dose (rem)	3.0995E+00	4.7389E+01	4.5617E+00

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4224E-02	2.1789E-01	2.0933E-02
Accumulated dose (rem)	1.5319E-01	8.9244E-01	1.8093E-01

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3502E-02	2.2114E+00	1.2158E-01
Accumulated dose (rem)	3.3587E-01	6.4051E+00	6.3411E-01

CR Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Kr-85	6.7493E-02	1.7219E-07	1.2199E+18	7.8166E+15
Rb-86	4.7605E-10	5.8506E-18	4.0969E+07	2.1201E+08
Sr-89	5.2818E-08	1.8180E-15	1.2302E+10	1.0780E+10
Sr-90	8.5124E-09	6.2404E-14	4.1756E+11	1.3176E+09
Y-90	8.5571E-09	1.5728E-17	1.0524E+08	8.5969E+08
Y-91	8.7230E-10	3.5569E-17	2.3539E+08	1.6609E+08
Zr-95	8.5235E-10	3.9676E-17	2.5151E+08	1.6385E+08
Nb-95	1.0823E-09	2.7678E-17	1.7545E+08	1.7685E+08
Mo-99	7.7439E-12	1.6146E-20	9.8216E+04	8.0252E+08
Ru-103	7.5929E-09	2.3527E-16	1.3755E+09	1.6828E+09
Ru-106	5.0653E-09	1.5140E-15	8.6016E+09	8.1263E+08
Sb-127	6.6918E-11	2.5058E-19	1.1882E+06	9.1568E+08
Te-127	2.2608E-09	8.5664E-19	4.0620E+06	1.1684E+09

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Te-127m	2.1535E-09	2.2830E-16	1.0826E+09	3.7188E+08
Te-129	3.8568E-09	1.8416E-19	8.5974E+05	1.0937E+09
Te-129m	4.4603E-09	1.4806E-16	6.9118E+08	1.0528E+09
Te-132	3.7840E-10	1.2464E-18	5.6863E+06	1.2902E+10
I-131	1.5983E-05	1.2892E-13	5.9266E+11	1.0697E+13
I-132	2.9522E-08	2.8601E-18	1.3048E+07	7.3996E+11
Xe-133	1.6211E-01	8.6606E-10	3.9215E+15	2.8621E+17
Xe-133m	2.3041E-05	5.2336E-14	2.3697E+11	4.2962E+15
Cs-134	1.4113E-07	1.0908E-13	4.9023E+11	2.7332E+10
Cs-136	9.0511E-09	1.2350E-16	5.4684E+08	5.9529E+09
Cs-137	1.1242E-07	1.2925E-12	5.6815E+12	2.1375E+10
Ba-140	2.2927E-08	3.1317E-16	1.3471E+09	1.1637E+10
La-140	2.6632E-08	4.7914E-17	2.0610E+08	7.3407E+09
Ce-141	1.4649E-09	5.1410E-17	2.1957E+08	3.5108E+08
Ce-144	2.0626E-09	6.4670E-16	2.7045E+09	3.3458E+08
Pr-143	2.9247E-10	4.3432E-18	1.8291E+07	1.2496E+08
Nd-147	6.4875E-11	8.0193E-19	3.2853E+06	4.0604E+07
Np-239	4.6197E-12	1.9913E-20	5.0175E+04	1.5999E+09
Pu-238	6.9165E-12	4.0401E-16	1.0223E+09	1.0670E+06
Pu-239	7.0376E-13	1.1322E-14	2.8529E+10	1.0836E+05
Pu-240	1.2285E-12	5.3938E-16	1.3534E+09	1.8989E+05
Pu-241	2.7187E-10	2.7492E-15	6.8697E+09	4.2131E+07
Am-241	1.9009E-13	5.5488E-17	1.3865E+08	2.5763E+04
Cm-242	3.7333E-11	1.1278E-17	2.8066E+07	6.2788E+06
Cm-244	2.7955E-12	3.4153E-17	8.4292E+07	4.3303E+05

CR Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	1.2239E+18	0.0000E+00
Elemental I (atoms)	6.1487E+09	0.0000E+00
Organic I (atoms)	5.8443E+11	0.0000E+00
Aerosols (kg)	1.4848E-12	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4815E-15
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4816E-15
Total I (Ci)		1.6013E-05

	Deposition	Recirculating
Time (h) = 720.0000	Surfaces	Filter
Noble gases (atoms)	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	2.8322E+13
Organic I (atoms)	0.0000E+00	2.9852E+14
Aerosols (kg)	0.0000E+00	2.3248E-10

CR Filtered Intake (Pathway 9) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3810E+20
Elemental I (atoms)	5.0020E+14	5.0526E+12
Organic I (atoms)	5.2147E+15	5.2674E+13
Aerosols (kg)	3.8561E-09	3.8950E-11

CR Unfiltered Inleakage (Pathway 10) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4092E+19
Elemental I (atoms)	0.0000E+00	9.3566E+13
Organic I (atoms)	0.0000E+00	9.7544E+14
Aerosols (kg)	0.0000E+00	7.2130E-10

CR Exhaust to Environment (Pathway 11) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	2.8066E+20	0.0000E+00
Elemental I (atoms)	6.7811E+13	0.0000E+00
Organic I (atoms)	7.1476E+14	0.0000E+00
Aerosols (kg)	5.5663E-10	0.0000E+00

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I-131 Summary

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	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	6.1456E+03	0.0000E+00	3.4413E-02
0.017	1.8470E+05	0.0000E+00	3.1091E+01
0.083	9.2044E+05	0.0000E+00	7.7302E+02
0.333	3.6817E+06	0.0000E+00	1.0908E+03
0.500	6.8012E+05	0.0000E+00	1.2262E+03
0.750	9.4093E+05	0.0000E+00	1.3481E+03
1.000	9.4889E+05	0.0000E+00	1.4778E+03
1.400	9.5870E+05	0.0000E+00	1.6872E+03
1.700	9.6603E+05	0.0000E+00	1.8455E+03
2.000	9.7334E+05	0.0000E+00	2.0050E+03
2.250	5.9162E+04	4.0983E+04	2.0468E+03
2.400	6.1404E+04	3.8270E+04	2.0536E+03
2.700	6.1335E+04	3.8211E+04	2.0672E+03
3.000	6.1257E+04	3.8163E+04	2.0807E+03
3.300	6.1180E+04	3.8114E+04	2.0943E+03
3.600	6.1102E+04	3.8066E+04	2.1078E+03
3.900	6.1024E+04	3.8017E+04	2.1212E+03
4.000	6.0998E+04	3.8001E+04	2.1257E+03
4.300	6.0921E+04	3.7953E+04	2.1391E+03
4.600	6.0843E+04	3.7905E+04	2.1525E+03
4.900	6.0766E+04	3.7856E+04	2.1658E+03
5.200	6.0688E+04	3.7808E+04	2.1791E+03
5.500	6.0611E+04	3.7760E+04	2.1924E+03
5.800	6.0534E+04	3.7712E+04	2.2056E+03
6.100	6.0457E+04	3.7664E+04	2.2189E+03
6.400	6.0380E+04	3.7616E+04	2.2320E+03
6.700	6.0303E+04	3.7568E+04	2.2452E+03
7.000	6.0226E+04	3.7520E+04	2.2583E+03
7.300	6.0150E+04	3.7473E+04	2.2713E+03
7.600	6.0073E+04	3.7425E+04	2.2844E+03
7.900	5.9997E+04	3.7377E+04	2.2974E+03
8.000	5.9971E+04	3.7361E+04	2.3017E+03
8.300	5.9895E+04	3.7314E+04	2.3147E+03
8.600	5.9819E+04	3.7266E+04	2.3276E+03
8.900	5.9742E+04	3.7219E+04	2.3405E+03
9.200	5.9666E+04	3.7171E+04	2.3533E+03
9.500	5.9590E+04	3.7124E+04	2.3662E+03
9.800	5.9514E+04	3.7077E+04	2.3790E+03
10.100	5.9439E+04	3.7030E+04	2.3917E+03
10.400	5.9363E+04	3.6982E+04	2.4044E+03
16.000	5.7966E+04	3.6112E+04	2.6360E+03
24.000	5.6026E+04	3.4903E+04	2.9474E+03
96.000	4.2233E+04	2.6310E+04	3.6018E+03
720.000	3.6054E+03	2.2461E+03	1.4638E+03

	Environment	CR	MSIV Failed Inboard V
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	1.4334E-14	9.9439E-18	2.2613E-04
0.017	1.1689E-08	8.1054E-12	2.0418E-01
0.083	7.2009E-06	1.3143E-09	5.0649E+00
0.333	1.8137E-03	3.2373E-07	8.0334E+01
0.500	8.6076E-03	1.5162E-06	1.1108E+02
0.750	3.2878E-02	5.6522E-06	1.3718E+02
1.000	7.7640E-02	1.3019E-05	1.6444E+02
1.400	2.0316E-01	3.2791E-05	2.0699E+02
1.700	3.5115E-01	5.5153E-05	2.3807E+02
2.000	5.5513E-01	8.4937E-05	2.6844E+02
2.250	7.7375E-01	1.0298E-04	2.6808E+02
2.400	9.2663E-01	1.1559E-04	2.6501E+02
2.700	1.2803E+00	1.4440E-04	2.5901E+02
3.000	1.6964E+00	1.7744E-04	2.5320E+02
3.300	2.1734E+00	2.1406E-04	2.4757E+02
3.600	2.7095E+00	2.5372E-04	2.4211E+02
3.900	3.3032E+00	2.9591E-04	2.3683E+02
4.000	3.5136E+00	3.1046E-04	2.3510E+02
4.300	4.1815E+00	3.5536E-04	2.3003E+02
4.600	4.9032E+00	4.0182E-04	2.2513E+02
4.900	5.6771E+00	4.4952E-04	2.2037E+02
5.200	6.5019E+00	4.9816E-04	2.1576E+02
5.500	7.3759E+00	5.4746E-04	2.1129E+02

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5.800	8.2977E+00	5.9719E-04	2.0697E+02
6.100	9.2659E+00	6.4714E-04	2.0277E+02
6.400	1.0279E+01	6.9712E-04	1.9871E+02
6.700	1.1336E+01	7.4698E-04	1.9477E+02
7.000	1.2435E+01	7.9658E-04	1.9095E+02
7.300	1.3574E+01	8.4578E-04	1.8726E+02
7.600	1.4754E+01	8.9448E-04	1.8367E+02
7.900	1.5972E+01	9.4259E-04	1.8020E+02
8.000	1.6386E+01	9.5849E-04	1.7907E+02
8.300	1.7647E+01	9.1414E-04	1.7573E+02
8.600	1.8944E+01	8.7585E-04	1.7250E+02
8.900	2.0274E+01	8.4294E-04	1.6938E+02
9.200	2.1638E+01	8.1483E-04	1.6634E+02
9.500	2.3033E+01	7.9096E-04	1.6340E+02
9.800	2.4459E+01	7.7087E-04	1.6055E+02
10.100	2.5916E+01	7.5412E-04	1.5779E+02
10.400	2.7401E+01	7.4032E-04	1.5511E+02
16.000	5.9312E+01	7.3845E-04	1.1769E+02
24.000	1.1293E+02	8.5186E-04	9.0282E+01
96.000	3.4756E+02	2.4669E-04	5.4590E+01
720.000	1.0025E+03	1.5983E-05	4.6315E+00

Time (hr)	MSIV Failed Outboard I-131 (Curies)	Intact Inboard Volume I-131 (Curies)	Intact Outboard Volum I-131 (Curies)
0.000	4.3393E-09	2.2612E-04	5.1091E-09
0.017	1.1769E-04	2.0416E-01	1.3857E-04
0.083	1.4516E-02	5.0623E+00	1.7094E-02
0.333	9.0967E-01	8.0171E+01	1.0719E+00
0.500	2.5778E+00	1.1062E+02	3.0390E+00
0.750	5.5431E+00	1.3616E+02	6.5409E+00
1.000	9.0219E+00	1.6277E+02	1.0655E+01
1.400	1.5568E+01	2.0407E+02	1.8408E+01
1.700	2.1184E+01	2.3405E+02	2.5071E+01
2.000	2.7338E+01	2.6320E+02	3.2377E+01
2.250	3.2547E+01	2.6177E+02	3.8571E+01
2.400	3.5481E+01	2.5809E+02	4.2064E+01
2.700	4.0907E+01	2.5093E+02	4.8537E+01
3.000	4.5783E+01	2.4403E+02	5.4368E+01
3.300	5.0154E+01	2.3738E+02	5.9604E+01
3.600	5.4058E+01	2.3097E+02	6.4290E+01
3.900	5.7533E+01	2.2480E+02	6.8469E+01
4.000	5.8603E+01	2.2280E+02	6.9756E+01
4.300	6.1559E+01	2.1692E+02	7.3318E+01
4.600	6.4163E+01	2.1127E+02	7.6460E+01
4.900	6.6443E+01	2.0581E+02	7.9214E+01
5.200	6.8427E+01	2.0056E+02	8.1610E+01
5.500	7.0138E+01	1.9550E+02	8.3678E+01
5.800	7.1600E+01	1.9062E+02	8.5445E+01
6.100	7.2833E+01	1.8592E+02	8.6934E+01
6.400	7.3859E+01	1.8140E+02	8.8169E+01
6.700	7.4693E+01	1.7703E+02	8.9171E+01
7.000	7.5355E+01	1.7283E+02	8.9961E+01
7.300	7.5858E+01	1.6878E+02	9.0556E+01
7.600	7.6218E+01	1.6487E+02	9.0974E+01
7.900	7.6447E+01	1.6111E+02	9.1231E+01
8.000	7.6496E+01	1.5988E+02	9.1283E+01
8.300	7.6567E+01	1.5630E+02	9.1345E+01
8.600	7.6535E+01	1.5285E+02	9.1277E+01
8.900	7.6409E+01	1.4952E+02	9.1094E+01
9.200	7.6200E+01	1.4631E+02	9.0806E+01
9.500	7.5916E+01	1.4322E+02	9.0424E+01
9.800	7.5565E+01	1.4024E+02	8.9957E+01
10.100	7.5153E+01	1.3736E+02	8.9416E+01
10.400	7.4688E+01	1.3459E+02	8.8807E+01
16.000	6.1787E+01	9.7735E+01	7.2136E+01
24.000	4.5800E+01	7.3696E+01	5.1905E+01
96.000	2.4428E+01	4.6150E+01	2.7622E+01
720.000	2.0444E+00	3.9295E+00	2.3228E+00

Cumulative Dose Summary
#####

EAB

LPZ

CR

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1025
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Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	7.4367E-10	5.3639E-11	1.0124E-10	7.3021E-12	6.2940E-12	2.2049E-13
0.083	4.5777E-07	3.1886E-08	6.2319E-08	4.3408E-09	4.0510E-09	1.8459E-10
0.333	1.1499E-04	7.2241E-06	1.5654E-05	9.8345E-07	3.8715E-06	1.6947E-07
0.500	5.4475E-04	3.3257E-05	7.4159E-05	4.5274E-06	2.8227E-05	1.2175E-06
0.750	2.0758E-03	1.3647E-04	2.8259E-04	1.8579E-05	1.7573E-04	7.7804E-06
1.000	4.8913E-03	3.8721E-04	6.6587E-04	5.2713E-05	5.7453E-04	2.7682E-05
1.400	1.2763E-02	1.4503E-03	1.7375E-03	1.9743E-04	2.1270E-03	1.2846E-04
1.700	2.2009E-02	3.1554E-03	2.9962E-03	4.2955E-04	4.4110E-03	3.2398E-04
2.000	3.4709E-02	6.0221E-03	4.7251E-03	8.1982E-04	8.0512E-03	7.1077E-04
2.250	4.8278E-02	9.5248E-03	6.5723E-03	1.2967E-03	1.2131E-02	1.2221E-03
2.400	5.7746E-02	1.2141E-02	7.8612E-03	1.6528E-03	1.4980E-02	1.6126E-03
2.700	7.9596E-02	1.8544E-02	1.0836E-02	2.5244E-03	2.1729E-02	2.6201E-03
3.000	1.0522E-01	2.6466E-02	1.4324E-02	3.6029E-03	3.0067E-02	3.9978E-03
3.300	1.3449E-01	3.5849E-02	1.8309E-02	4.8803E-03	4.0185E-02	5.8081E-03
3.600	1.6729E-01	4.6617E-02	2.2774E-02	6.3462E-03	5.2245E-02	8.1039E-03
3.900	2.0349E-01	5.8678E-02	2.7702E-02	7.9881E-03	6.6377E-02	1.0927E-02
4.000	2.1629E-01	6.2969E-02	2.9445E-02	8.5723E-03	7.1568E-02	1.1990E-02
4.300	2.5685E-01	7.6600E-02	3.4966E-02	1.0428E-02	8.8625E-02	1.5560E-02
4.600	3.0054E-01	9.1289E-02	4.0913E-02	1.2428E-02	1.0797E-01	1.9709E-02
4.900	3.4725E-01	1.0693E-01	4.7273E-02	1.4557E-02	1.2966E-01	2.4441E-02
5.200	3.9688E-01	1.2343E-01	5.4029E-02	1.6803E-02	1.5373E-01	2.9752E-02
5.500	4.4932E-01	1.4068E-01	6.1168E-02	1.9152E-02	1.8022E-01	3.5631E-02
5.800	5.0446E-01	1.5860E-01	6.8675E-02	2.1591E-02	2.0913E-01	4.2059E-02
6.100	5.6222E-01	1.7710E-01	7.6538E-02	2.4109E-02	2.4048E-01	4.9014E-02
6.400	6.2249E-01	1.9609E-01	8.4742E-02	2.6695E-02	2.7424E-01	5.6469E-02
6.700	6.8518E-01	2.1551E-01	9.3276E-02	2.9338E-02	3.1041E-01	6.4392E-02
7.000	7.5019E-01	2.3527E-01	1.0213E-01	3.2028E-02	3.4897E-01	7.2753E-02
7.300	8.1745E-01	2.5532E-01	1.1128E-01	3.4758E-02	3.8988E-01	8.1518E-02
7.600	8.8686E-01	2.7561E-01	1.2073E-01	3.7520E-02	4.3311E-01	9.0652E-02
7.900	9.5834E-01	2.9607E-01	1.3046E-01	4.0305E-02	4.7863E-01	1.0012E-01
8.000	9.8262E-01	3.0292E-01	1.3377E-01	4.1238E-02	4.9430E-01	1.0335E-01
8.300	1.0564E+00	3.2353E-01	1.3724E-01	4.3022E-02	5.4051E-01	1.1288E-01
8.600	1.1320E+00	3.4422E-01	1.4081E-01	4.4810E-02	5.8457E-01	1.2195E-01
8.900	1.2095E+00	3.6495E-01	1.4445E-01	4.6600E-02	6.2678E-01	1.3052E-01
9.200	1.2886E+00	3.8568E-01	1.4818E-01	4.8387E-02	6.6738E-01	1.3861E-01
9.500	1.3694E+00	4.0639E-01	1.5199E-01	5.0171E-02	7.0661E-01	1.4627E-01
9.800	1.4519E+00	4.2705E-01	1.5587E-01	5.1947E-02	7.4467E-01	1.5354E-01
10.100	1.5358E+00	4.4764E-01	1.5983E-01	5.3716E-02	7.8174E-01	1.6047E-01
10.400	1.6212E+00	4.6814E-01	1.6385E-01	5.5474E-02	8.1798E-01	1.6708E-01
16.000	3.4232E+00	8.3182E-01	2.4873E-01	8.6272E-02	1.4531E+00	2.7168E-01
24.000	6.3354E+00	1.2625E+00	3.8592E-01	1.2169E-01	2.4279E+00	3.8630E-01
96.000	1.7723E+01	2.3757E+00	6.7456E-01	1.5999E-01	4.1936E+00	5.1253E-01
720.000	4.7389E+01	4.5617E+00	8.9244E-01	1.8093E-01	6.4051E+00	6.3411E-01

#####

Worst Two-Hour Doses

#####

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
8.0	1.2125E-01	5.2520E-01	1.3785E-01

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Attachment 13.25 - RADTRAD Output File “NMP2MSAOR.o0”

```
#####
RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:11:05
#####
```

```
#####
File information
#####
```

```
Plant file           = NMP2MSAOR.psf
Inventory file        = D:\User\Gardner\h21c-106r3\nmp2.nif
Release file          = D:\User\Gardner\h21c-106r3\csi_loca.rft
Dose Conversion file  = D:\User\Gardner\h21c-106r3\nmp2.inp
```

```
#####      #####      #####      # #      # #####      # #      #####
# #      #      #      # ##      # #      # #      #
# #      #      #      # #      # #      # #      #
#####      #####      # #      # #####      # #      #
#      #      #      # #      # #      # #      #
#      #      #      # #      # #      # #      #
#      #####      #      # #      #      #####      #
```

Radtrad 3.03 4/15/2001

NMP2 - OAR CsI Distribution in DW, MSIV Bypass Leakage Pathways 7 & 8 Without Delay Times - Total MSIV Leakage = 200 scfh and 100 scfh Per Line, Total Effective Aerosol Removal Efficiency, and CAVEX Core Inventory

Nuclide Inventory File:

D:\User\Gardner\h21c-106r3\nmp2.nif

Plant Power Level:

4.0670E+03

Compartments:

9

Compartment 1:

DW

3

3.0620E+05

1

0

0

0

0

Compartment 2:

WW

3

1.9080E+05

0

0

0

0

Compartment 3:

Dummy

3

1.0000E+02

0

0

0

0

Compartment 4:

Environment

2

0.0000E+00

0

0

0

0

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1027
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0
 Compartment 5:
 CR
 1
 3.8100E+05
 0
 0
 1
 0
 0
 Compartment 6:
 MSIV Failed Inboard Volume 1
 3
 3.9068E+02
 0
 0
 0
 0
 0
 0
 Compartment 7:
 MSIV Failed Outboard Volume 2
 3
 4.2841E+02
 0
 0
 0
 0
 0
 0
 Compartment 8:
 Intact Inboard Volume 3
 3
 3.3181E+02
 0
 0
 0
 0
 0
 0
 Compartment 9:
 Intact Outboard Volume 4
 3
 4.8703E+02
 0
 0
 0
 0
 0
 0
 Pathways:
 15
 Pathway 1:
 DW to WW
 1
 2
 4
 Pathway 2:
 WW to DW
 2
 1
 4
 Pathway 3:
 DW Leakage to RB (Released to Dummy)
 1
 3
 2
 Pathway 4:
 WW Leakage to RB (Released to Dummy)
 2
 3
 2
 Pathway 5:
 DW Bypass Pathway 5 to Environment (Released to Dummy)
 1
 3
 2
 Pathway 6:

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1028
---------------------------------	-------------------	----------------------

WW Bypass Pathway 6 to Environment (Released to Dummy)

2
3
2

Pathway 7:

DW to MSIV Failed Inboard Volume 1

1
6
2

Pathway 8:

MSIV Failed Inboard Volume 1 to MSIV Failed outboard Volume 2

6
7
2

Pathway 9:

MSIV Failed Outboard Volume 2 to Environment (Pathway 7)

7
4
2

Pathway 10:

DW to Intact Inboard Volume 3

1
8
2

Pathway 11:

Intact Inboard Volume 3 to Intact Outboard Volume 4

8
9
2

Pathway 12:

CR Filtered Intake (Pathway 9)

4
5
2

Pathway 13:

CR Unfiltered Inleakage (Pathway 10)

4
5
2

Pathway 14:

CR Exhaust to Environment (Pathway 11)

5
4
2

Pathway 15:

Intact Outboard Volume 4 to Environment (Pathway 8)

9
4
2

End of Plant Model File

Scenario Description Name:

Plant Model Filename:

Source Term:

1
1 9.5000E-01

D:\User\Gardner\h21c-106r3\nmp2.inp

D:\User\Gardner\h21c-106r3\csi_loca.rft

0.0000E+00

1

1.0000E+00 0.0000E+00 0.0000E+00 1.0000E+00

Overlying Pool:

0
0.0000E+00

0
0
0
0

Compartments:

9

Compartment 1:

1
1

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1029
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```

1
0.0000E+00
6
0.0000E+00    0.0000E+00
3.0000E-01    1.9800E+01
2.0170E+00    1.9800E+00
3.1570E+00    1.9800E+00
6.0000E+00    0.0000E+00
7.2000E+02    0.0000E+00
1
0.0000E+00
6
0.0000E+00    0.0000E+00
3.0000E-01    1.9800E+01
2.0170E+00    1.9800E+00
3.1570E+00    0.0000E+00
6.0000E+00    0.0000E+00
7.2000E+02    0.0000E+00
1
0.0000E+00
0
0
0
0
0
0
Compartment 2:
0
1
0
0
0
0
0
0
0
0
0
Compartment 3:
0
1
0
0
0
0
0
0
0
0
0
Compartment 4:
0
1
0
0
0
0
0
0
0
0
0
Compartment 5:
0
1
0
0
0
0
1
6.7500E+02
3
0.0000E+00    0.0000E+00    0.0000E+00    0.0000E+00
1.6700E-02    9.9000E+01    9.9000E+01    9.9000E+01
7.2000E+02    0.0000E+00    0.0000E+00    0.0000E+00
0
0
Compartment 6:
0
1
0

```

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0
0
0
0
0
0

Compartment 7:

0
1
0
0
0
0
0
0
0
0

Compartment 8:

0
1
0
0
0
0
0
0
0
0

Compartment 9:

0
1
0
0
0
0
0
0
0
0

Pathways:

15

Pathway 1:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00 0.0000E+00

2.0000E+00 8.9710E+04

7.2000E+02 0.0000E+00

0

Pathway 2:

0
0
0
0
0
0
0
0
0
0
0
1
3

0.0000E+00 0.0000E+00

2.0000E+00 1.4400E+05

7.2000E+02 0.0000E+00

0

Pathway 3:

0

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1031
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0
0
0
0
1
4
0.0000E+00 1.0280E+02 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 2.7500E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 1.3800E+00 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 4:

0
0
0
0
0
1
4
0.0000E+00 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
8.3300E-02 1.4600E+00 0.0000E+00 0.0000E+00 0.0000E+00
2.4000E+01 7.3000E-01 0.0000E+00 0.0000E+00 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 5:

0
0
0
0
0
1
5
0.0000E+00 2.4930E-01 7.3050E+01 3.6000E+00 0.0000E+00
8.0000E+00 2.4930E-01 7.3050E+01 4.8200E+00 0.0000E+00
2.4000E+01 1.2470E-01 7.3050E+01 8.4600E+00 0.0000E+00
9.6000E+01 1.2470E-01 7.3050E+01 4.8890E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 6:

0
0
0
0
0
1
5
0.0000E+00 1.1200E-02 8.5610E+01 3.6000E+00 0.0000E+00
8.0000E+00 1.1200E-02 8.5610E+01 4.8200E+00 0.0000E+00
2.4000E+01 5.6000E-03 8.5610E+01 8.4600E+00 0.0000E+00
9.6000E+01 5.6000E-03 8.5610E+01 4.8890E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Pathway 7:

0

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--------------------------	------------	---------------

```

0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 8:
0
0
0
0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  3.8200E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  5.1200E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  8.9800E+00  0.0000E+00
9.6000E+01  3.3800E-01  0.0000E+00  5.1030E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 9:
0
0
0
0
0
1
5
0.0000E+00  1.6670E+00  8.6420E+01  3.5600E+00  0.0000E+00
8.0000E+00  1.6670E+00  8.6420E+01  4.7800E+00  0.0000E+00
2.4000E+01  8.3330E-01  8.6420E+01  8.3900E+00  0.0000E+00
9.6000E+01  8.3330E-01  8.6420E+01  4.8590E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 10:
0
0
0
0
0
1
3
0.0000E+00  6.7600E-01  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 11:
0
0
0

```

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1033
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```

0
0
1
5
0.0000E+00  6.7600E-01  0.0000E+00  3.8300E+00  0.0000E+00
8.0000E+00  6.7600E-01  0.0000E+00  5.1300E+00  0.0000E+00
2.4000E+01  3.3800E-01  0.0000E+00  8.9800E+00  0.0000E+00
9.6000E+01  3.3800E-01  0.0000E+00  5.1040E+01  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
0
Pathway 12:
0
0
0
0
0
1
3
0.0000E+00  7.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6700E-02  1.3500E+03  9.9000E+01  9.9000E+01  9.9000E+01
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 13:
0
0
0
0
0
1
7
0.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
4.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
8.0000E+00  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
1.6000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
2.4000E+01  2.5000E+02  0.0000E+00  0.0000E+00  0.0000E+00
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 14:
0
0
0
0
0
1
3
0.0000E+00  1.0000E+03  1.0000E+02  1.0000E+02  1.0000E+02
1.6700E-02  1.6000E+03  1.0000E+02  1.0000E+02  1.0000E+02
7.2000E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
0
0
0
0
0
0
Pathway 15:
0
0
0

```

CALCULATION NO. H21C-106	REV. No. 4	PAGE NO. 1034
--------------------------	------------	---------------

0
0
1
5
0.0000E+00 1.6670E+00 8.4450E+01 3.6000E+00 0.0000E+00
8.0000E+00 1.6670E+00 8.4450E+01 4.8200E+00 0.0000E+00
2.4000E+01 8.3330E-01 8.4450E+01 8.4600E+00 0.0000E+00
9.6000E+01 8.3330E-01 8.4450E+01 4.8890E+01 0.0000E+00
7.2000E+02 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

0
0
0
0
0
0

Dose Locations:

3

Location 1:

EAB

4
1
2
0.0000E+00 1.1900E-04
7.2000E+02 0.0000E+00
1
2
0.0000E+00 3.5000E-04
7.2000E+02 0.0000E+00
0

Location 2:

LPZ

4
1
5
0.0000E+00 1.6200E-05
8.0000E+00 1.0900E-05
2.4000E+01 4.5900E-06
9.6000E+01 1.3300E-06
7.2000E+02 0.0000E+00
1
4
0.0000E+00 3.5000E-04
8.0000E+00 1.8000E-04
2.4000E+01 2.3000E-04
7.2000E+02 0.0000E+00
0

Location 3:

CR

5
0
1
2
0.0000E+00 3.5000E-04
7.2000E+02 0.0000E+00
1
4
0.0000E+00 1.0000E+00
2.4000E+01 6.0000E-01
9.6000E+01 4.0000E-01
7.2000E+02 0.0000E+00

Effective Volume Location:

1
6
0.0000E+00 1.4700E-03
2.0000E+00 9.7400E-04
8.0000E+00 3.6300E-04
2.4000E+01 2.4500E-04
9.6000E+01 1.9000E-04
7.2000E+02 0.0000E+00

Simulation Parameters:

7
0.0000E+00 1.0000E-02
1.0000E+00 1.0000E-01
2.0000E+00 5.0000E-01

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8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

Output Filename:

C:\Radtrad 3.o207

1

1

1

1

0

End of Scenario File

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 RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:11:05
 #####

 Plant Description
 #####

Number of Nuclides = 63

Inventory Power = 1.0000E+00 MWth
 Plant Power Level = 4.0670E+03 MWth

Number of compartments = 9

Compartment information

Compartment number 1 (Source term fraction = 9.5000E-01
)

Name: DW

Compartment volume = 3.0620E+05 (Cubic feet)

Compartment type is Normal

Removal devices within compartment:

Spray(s)

Pathways into and out of compartment 1

Inlet Pathway Number 2: WW to DW
 Exit Pathway Number 1: DW to WW
 Exit Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Exit Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Exit Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 10: DW to Intact Inboard Volume 3

Compartment number 2

Name: WW

Compartment volume = 1.9080E+05 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 2

Inlet Pathway Number 1: DW to WW
 Exit Pathway Number 2: WW to DW
 Exit Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Exit Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 3

Name: Dummy

Compartment volume = 1.0000E+02 (Cubic feet)

Compartment type is Normal

Pathways into and out of compartment 3

Inlet Pathway Number 3: DW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 4: WW Leakage to RB (Released to Dummy)
 Inlet Pathway Number 5: DW Bypass Pathway 5 to Environment (Released to Du
 Inlet Pathway Number 6: WW Bypass Pathway 6 to Environment (Released to Du

Compartment number 4

Name: Environment

Compartment type is Environment

Pathways into and out of compartment 4

Inlet Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path
 Inlet Pathway Number 14: CR Exhaust to Environment (Pathway 11)
 Inlet Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway
 Exit Pathway Number 12: CR Filtered Intake (Pathway 9)
 Exit Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)

Compartment number 5

Name: CR

Compartment volume = 3.8100E+05 (Cubic feet)

Compartment type is Control Room

Removal devices within compartment:

Filter(s)

Pathways into and out of compartment 5

Inlet Pathway Number 12: CR Filtered Intake (Pathway 9)
 Inlet Pathway Number 13: CR Unfiltered Inleakage (Pathway 10)
 Exit Pathway Number 14: CR Exhaust to Environment (Pathway 11)

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Compartment number 6
Name: MSIV Failed Inboard Volume 1
Compartment volume = 3.9068E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 6
 Inlet Pathway Number 7: DW to MSIV Failed Inboard Volume 1
 Exit Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Compartment number 7
Name: MSIV Failed Outboard Volume 2
Compartment volume = 4.2841E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 7
 Inlet Pathway Number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa
 Exit Pathway Number 9: MSIV Failed Outboard Volume 2 to Environment (Path

Compartment number 8
Name: Intact Inboard Volume 3
Compartment volume = 3.3181E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 8
 Inlet Pathway Number 10: DW to Intact Inboard Volume 3
 Exit Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Compartment number 9
Name: Intact Outboard Volume 4
Compartment volume = 4.8703E+02 (Cubic feet)
Compartment type is Normal
Pathways into and out of compartment 9
 Inlet Pathway Number 11: Intact Inboard Volume 3 to Intact Outboard Volume
 Exit Pathway Number 15: Intact Outboard Volume 4 to Environment (Pathway

Total number of pathways = 15

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 RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:11:05
 #####

 Scenario Description
 #####

Radioactive Decay is enabled
 Calculation of Daughters is enabled

Release Fractions and Timings

	GAP	EARLY IN-VESSEL	LATE RELEASE	RELEASE MASS
	0.500000 hr	1.5000 hrs	0.0000 hrs	(gm)
NOBLES	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
IODINE	5.0000E-02	2.5000E-01	0.0000E+00	3.546E+02
CESIUM	3.6000E-03	1.4400E-02	0.0000E+00	4.446E+03
TELLURIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
STRONTIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
BARIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RUTHENIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
CERIUM	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
LANTHANUM	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Inventory Power = 4067. MWt

Nuclide Name	Group	Specific Inventory (Ci/MWt)	half life (s)	Whole Body DCF (Sv-m3/Bq-s)	Inhaled Thyroid (Sv/Bq)	Inhaled Effective (Sv/Bq)
Rb-86	3	6.260E+01	1.612E+06	4.810E-15	1.330E-09	1.790E-09
Rb-88	3	2.520E+04	1.062E+03	3.360E-14	1.370E-12	2.260E-11
I-131	2	2.720E+04	6.947E+05	1.820E-14	2.920E-07	8.890E-09
I-132	2	3.960E+04	8.280E+03	1.120E-13	1.740E-09	1.030E-10
I-133	2	5.640E+04	7.488E+04	2.940E-14	4.860E-08	1.580E-09
I-134	2	6.470E+04	3.156E+03	1.300E-13	2.880E-10	3.550E-11
I-135	2	5.330E+04	2.380E+04	8.294E-14	8.460E-09	3.320E-10
Cs-134	3	6.260E+03	6.507E+07	7.570E-14	1.110E-08	1.250E-08
Cs-136	3	1.910E+03	1.132E+06	1.060E-13	1.730E-09	1.980E-09
Cs-137	3	4.860E+03	9.467E+08	2.725E-14	7.930E-09	8.630E-09

Nuclide	Daughter	Fraction	Daughter	Fraction	Daughter	Fraction
Kr-85m	Kr-85	0.21	none	0.00	none	0.00
Kr-87	Rb-87	1.00	none	0.00	none	0.00
Kr-88	Rb-88	1.00	none	0.00	none	0.00
Sr-90	Y-90	1.00	none	0.00	none	0.00
Sr-91	Y-91m	0.58	Y-91	0.42	none	0.00
Sr-92	Y-92	1.00	none	0.00	none	0.00
Y-93	Zr-93	1.00	none	0.00	none	0.00
Zr-95	Nb-95m	0.01	Nb-95	0.99	none	0.00
Zr-97	Nb-97m	0.95	Nb-97	0.05	none	0.00
Mo-99	Tc-99m	0.88	Tc-99	0.12	none	0.00
Tc-99m	Tc-99	1.00	none	0.00	none	0.00
Ru-103	Rh-103m	1.00	none	0.00	none	0.00
Ru-105	Rh-105	1.00	none	0.00	none	0.00
Ru-106	Rh-106	1.00	none	0.00	none	0.00
Sb-127	Te-127m	0.18	Te-127	0.82	none	0.00
Sb-129	Te-129m	0.22	Te-129	0.77	none	0.00
Te-127m	Te-127	0.98	none	0.00	none	0.00
Te-129	I-129	1.00	none	0.00	none	0.00
Te-129m	Te-129	0.65	I-129	0.35	none	0.00
Te-131m	Te-131	0.22	I-131	0.78	none	0.00
Te-132	I-132	1.00	none	0.00	none	0.00
I-131	Xe-131m	0.01	none	0.00	none	0.00
I-133	Xe-133m	0.03	Xe-133	0.97	none	0.00
I-135	Xe-135m	0.15	Xe-135	0.85	none	0.00
Xe-133m	Xe-133	1.00	none	0.00	none	0.00
Xe-135	Cs-135	1.00	none	0.00	none	0.00
Xe-135m	Xe-135	0.99	Cs-135	0.00	none	0.00
Cs-137	Ba-137m	0.95	none	0.00	none	0.00
Ba-140	La-140	1.00	none	0.00	none	0.00
La-141	Ce-141	1.00	none	0.00	none	0.00
Ce-143	Pr-143	1.00	none	0.00	none	0.00
Ce-144	Pr-144m	0.02	Pr-144	0.98	none	0.00
Nd-147	Pm-147	1.00	none	0.00	none	0.00

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Np-239	Pu-239	1.00	none	0.00	none	0.00
Pu-238	U-234	1.00	none	0.00	none	0.00
Pu-239	U-235	1.00	none	0.00	none	0.00
Pu-240	U-236	1.00	none	0.00	none	0.00
Pu-241	Am-241	1.00	none	0.00	none	0.00
Am-241	Np-237	1.00	none	0.00	none	0.00
Cm-242	Pu-238	1.00	none	0.00	none	0.00
Cm-244	Pu-240	1.00	none	0.00	none	0.00

Iodine fractions

Aerosol	=	1.0000E+00
Elemental	=	0.0000E+00
Organic	=	0.0000E+00

COMPARTMENT DATA

Compartment number 1: DW

Sprays: Aerosol Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.0000E-01	1.9800E+01
2.0170E+00	1.9800E+00
3.1570E+00	1.9800E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Sprays: Elemental Removal Data

Time (hr)	Removal Coef. (hr ⁻¹)
0.0000E+00	0.0000E+00
3.0000E-01	1.9800E+01
2.0170E+00	1.9800E+00
3.1570E+00	0.0000E+00
6.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00

Compartment number 2: WW

Compartment number 3: Dummy

Compartment number 4: Environment

Compartment number 5: CR

Compartment Filter Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	6.7500E+02	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	6.7500E+02	0.0000E+00	0.0000E+00	0.0000E+00

Compartment number 6: MSIV Failed Inboard Volume 1

Compartment number 7: MSIV Failed Outboard Volume 2

Compartment number 8: Intact Inboard Volume 3

Compartment number 9: Intact Outboard Volume 4

PATHWAY DATA

Pathway number 1: DW to WW

Convection Data

Time (hr)	Flow Rate (% / day)
0.0000E+00	0.0000E+00
2.0000E+00	8.9710E+04
7.2000E+02	0.0000E+00

Pathway number 2: WW to DW

Convection Data

Time (hr)	Flow Rate (% / day)
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0.0000E+00	0.0000E+00
2.0000E+00	1.4400E+05
7.2000E+02	0.0000E+00

Pathway number 3: DW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0280E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	2.7500E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	1.3800E+00	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 4: WW Leakage to RB (Released to Dummy)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
8.3300E-02	1.4600E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	7.3000E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 5: DW Bypass Pathway 5 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.4930E-01	7.3050E+01	3.6000E+00	0.0000E+00
8.0000E+00	2.4930E-01	7.3050E+01	4.8200E+00	0.0000E+00
2.4000E+01	1.2470E-01	7.3050E+01	8.4600E+00	0.0000E+00
9.6000E+01	1.2470E-01	7.3050E+01	4.8890E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 6: WW Bypass Pathway 6 to Environment (Released to Du

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.1200E-02	8.5610E+01	3.6000E+00	0.0000E+00
8.0000E+00	1.1200E-02	8.5610E+01	4.8200E+00	0.0000E+00
2.4000E+01	5.6000E-03	8.5610E+01	8.4600E+00	0.0000E+00
9.6000E+01	5.6000E-03	8.5610E+01	4.8890E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 7: DW to MSIV Failed Inboard Volume 1

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 8: MSIV Failed Inboard Volume 1 to MSIV Failed outboa

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	3.8200E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	5.1200E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	8.9800E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	5.1030E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 9: MSIV Failed Outboard Volume 2 to Environment (Path

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Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	8.6420E+01	3.5600E+00	0.0000E+00
8.0000E+00	1.6670E+00	8.6420E+01	4.7800E+00	0.0000E+00
2.4000E+01	8.3330E-01	8.6420E+01	8.3900E+00	0.0000E+00
9.6000E+01	8.3330E-01	8.6420E+01	4.8590E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 10: DW to Intact Inboard Volume 3

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 11: Intact Inboard Volume 3 to Intact Outboard Volume

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	6.7600E-01	0.0000E+00	3.8300E+00	0.0000E+00
8.0000E+00	6.7600E-01	0.0000E+00	5.1300E+00	0.0000E+00
2.4000E+01	3.3800E-01	0.0000E+00	8.9800E+00	0.0000E+00
9.6000E+01	3.3800E-01	0.0000E+00	5.1040E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 12: CR Filtered Intake (Pathway 9)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	7.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6700E-02	1.3500E+03	9.9000E+01	9.9000E+01	9.9000E+01
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 13: CR Unfiltered Inleakage (Pathway 10)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
4.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
8.0000E+00	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
1.6000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E+01	2.5000E+02	0.0000E+00	0.0000E+00	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 14: CR Exhaust to Environment (Pathway 11)

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.0000E+03	1.0000E+02	1.0000E+02	1.0000E+02
1.6700E-02	1.6000E+03	1.0000E+02	1.0000E+02	1.0000E+02
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Pathway number 15: Intact Outboard Volume 4 to Environment (Pathway

Pathway Filter: Removal Data

Time (hr)	Flow Rate (cfm)	Filter Efficiencies (%)		
		Aerosol	Elemental	Organic
0.0000E+00	1.6670E+00	8.4450E+01	3.6000E+00	0.0000E+00
8.0000E+00	1.6670E+00	8.4450E+01	4.8200E+00	0.0000E+00

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2.4000E+01	8.3330E-01	8.4450E+01	8.4600E+00	0.0000E+00
9.6000E+01	8.3330E-01	8.4450E+01	4.8890E+01	0.0000E+00
7.2000E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

LOCATION DATA

Location EAB is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.1900E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location LPZ is in compartment 4

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.6200E-05
8.0000E+00	1.0900E-05
2.4000E+01	4.5900E-06
9.6000E+01	1.3300E-06
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
8.0000E+00	1.8000E-04
2.4000E+01	2.3000E-04
7.2000E+02	0.0000E+00

Location CR is in compartment 5

Location X/Q Data

Time (hr)	X/Q (s * m ⁻³)
0.0000E+00	1.4700E-03
2.0000E+00	9.7400E-04
8.0000E+00	3.6300E-04
2.4000E+01	2.4500E-04
9.6000E+01	1.9000E-04
7.2000E+02	0.0000E+00

Location Breathing Rate Data

Time (hr)	Breathing Rate (m ³ * sec ⁻¹)
0.0000E+00	3.5000E-04
7.2000E+02	0.0000E+00

Location Occupancy Factor Data

Time (hr)	Occupancy Factor
0.0000E+00	1.0000E+00
2.4000E+01	6.0000E-01
9.6000E+01	4.0000E-01
7.2000E+02	0.0000E+00

USER SPECIFIED TIME STEP DATA - SUPPLEMENTAL TIME STEPS

Time	Time step
0.0000E+00	1.0000E-02
1.0000E+00	1.0000E-01
2.0000E+00	5.0000E-01
8.0000E+00	1.0000E+00
2.4000E+01	2.0000E+00
9.6000E+01	5.0000E+00
7.2000E+02	0.0000E+00

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#####
RADTRAD Version 3.03 (Spring 2001) run on 5/29/2019 at 3:11:05
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#####
Dose, Detailed model and Detailed Inventory Output
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EAB Doses:

Time (h) =	0.0100	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3186E-12	2.6534E-10	9.9183E-12
Accumulated dose (rem)		1.3186E-12	2.6534E-10	9.9183E-12

LPZ Doses:

Time (h) =	0.0100	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7951E-13	3.6122E-11	1.3502E-12
Accumulated dose (rem)		1.7951E-13	3.6122E-11	1.3502E-12

CR Doses:

Time (h) =	0.0100	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.4799E-16	2.2938E-12	7.5090E-14
Accumulated dose (rem)		7.4799E-16	2.2938E-12	7.5090E-14

DW Compartment Nuclide Inventory:

Time (h) =	0.0100	Ci	kg	Atoms	Decay
Rb-86		1.7412E+01	2.1399E-07	1.4985E+18	2.0831E+13
Rb-88		6.8630E+03	5.6852E-08	3.8906E+17	8.2976E+15
I-131		1.0508E+05	8.4757E-04	3.8963E+21	1.2571E+17
I-132		1.5257E+05	1.4781E-05	6.7434E+19	1.8277E+17
I-133		2.1781E+05	1.9228E-04	8.7062E+20	2.6062E+17
I-134		2.4798E+05	9.2959E-06	4.1777E+19	2.9773E+17
I-135		2.0570E+05	5.8572E-05	2.6128E+20	2.4620E+17
Xe-133		1.0451E+01	5.5831E-08	2.5280E+17	1.3023E+11
Xe-135		1.1980E+02	4.6914E-08	2.0927E+17	1.4930E+12
Cs-134		1.7412E+03	1.3458E-03	6.0482E+21	2.0831E+15
Cs-136		5.3126E+02	7.2487E-06	3.2097E+19	6.3557E+14
Cs-137		1.3518E+03	1.5542E-02	6.8316E+22	1.6172E+15

DW Transport Group Inventory:

Time (h) =	0.0100	Atmosphere	Sump
Noble gases (atoms)		5.0655E+17	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.8017E-02	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.7120E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.1930E-05
Total I (Ci)			9.2914E+05

DW to WW Transport Group Inventory:

Time (h) =	0.0100	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

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Time (h) = 0.0100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0100	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.5485E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8148E-06

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0100	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3156E+09
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.2149E-09	1.1861E-09

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0100	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.2790E+09
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1934E-08

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0100	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.2790E+09
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1934E-08

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0167		
Delta dose (rem)	8.9107E-12	1.7972E-09	6.7155E-11
Accumulated dose (rem)	1.0229E-11	2.0625E-09	7.7074E-11

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0167		
Delta dose (rem)	1.2130E-12	2.4466E-10	9.1421E-12
Accumulated dose (rem)	1.3926E-12	2.8078E-10	1.0492E-11

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.0167		
Delta dose (rem)	4.9317E-15	1.5162E-11	4.9632E-13
Accumulated dose (rem)	5.6796E-15	1.7456E-11	5.7141E-13

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.0167			
Rb-86	2.9076E+01	3.5734E-07	2.5023E+18	4.6780E+13
Rb-88	1.1378E+04	9.4254E-08	6.4501E+17	1.8532E+16
I-131	1.7546E+05	1.4153E-03	6.5062E+21	2.8230E+17
I-132	2.5453E+05	2.4659E-05	1.1250E+20	4.1015E+17
I-133	3.6364E+05	3.2101E-04	1.4535E+21	5.8519E+17
I-134	4.1192E+05	1.5441E-05	6.9394E+19	6.6632E+17
I-135	3.4325E+05	9.7739E-05	4.3600E+20	5.5263E+17
Xe-133	2.3464E+01	1.2535E-07	5.6759E+17	9.4553E+12
Xe-133m	1.6499E+00	3.7476E-09	1.6969E+16	6.6486E+11
Xe-135	2.6922E+02	1.0542E-07	4.7027E+17	1.0837E+14

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Xe-135m	1.6778E+03	1.8430E-08	8.2214E+16	6.7550E+14
Cs-134	2.9077E+03	2.2473E-03	1.0100E+22	4.6780E+15
Cs-136	8.8714E+02	1.2104E-05	5.3598E+19	1.4273E+15
Cs-137	2.2574E+03	2.5953E-02	1.1408E+23	3.6318E+15

DW Transport Group Inventory:

Time (h) =	0.0167	Atmosphere	Sump	
Noble gases (atoms)	1.1370E+18	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	3.0087E-02	0.0000E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			2.8586E-05	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.6609E-05	
Total I (Ci)			1.5488E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.0167 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0167 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.9316E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0609E-06

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6810E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	8.9656E-09	3.3076E-09

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.5581E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3280E-08

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0167	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.5581E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3280E-08

EAB Doses:

Time (h) =	0.0200	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0785E-11	2.1790E-09	8.1400E-11
Accumulated dose (rem)		2.1014E-11	4.2416E-09	1.5847E-10

LPZ Doses:

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Time (h) =	0.0200	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4681E-12	2.9664E-10	1.1081E-11
Accumulated dose (rem)		2.8607E-12	5.7742E-10	2.1574E-11

CR Doses:

Time (h) =	0.0200	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8961E-15	1.5066E-11	4.9315E-13
Accumulated dose (rem)		1.0576E-14	3.2522E-11	1.0646E-12

DW Compartment Nuclide Inventory:

Time (h) =	0.0200	Ci	kg	Atoms	Decay
Rb-86		3.4820E+01	4.2794E-07	2.9966E+18	6.2085E+13
Rb-88		1.3585E+04	1.1253E-07	7.7011E+17	2.4527E+16
I-131		2.1013E+05	1.6949E-03	7.7916E+21	3.7466E+17
I-132		3.0469E+05	2.9518E-05	1.3467E+20	5.4415E+17
I-133		4.3544E+05	3.8439E-04	1.7405E+21	7.7660E+17
I-134		4.9201E+05	1.8443E-05	8.2887E+19	8.8287E+17
I-135		4.1092E+05	1.1701E-04	5.2196E+20	7.3329E+17
Xe-133		3.1137E+01	1.6635E-07	7.5321E+17	1.9768E+13
Xe-133m		2.1894E+00	4.9731E-09	2.2518E+16	1.3900E+12
Xe-135		3.5746E+02	1.3998E-07	6.2441E+17	2.2668E+14
Xe-135m		2.2157E+03	2.4339E-08	1.0857E+17	1.4096E+15
Cs-134		3.4821E+03	2.6913E-03	1.2095E+22	6.2086E+15
Cs-136		1.0624E+03	1.4496E-05	6.4187E+19	1.8943E+15
Cs-137		2.7034E+03	3.1080E-02	1.3662E+23	4.8201E+15

DW Transport Group Inventory:

Time (h) =	0.0200	Atmosphere	Sump
Noble gases (atoms)		1.5087E+18	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		3.6031E-02	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			3.4231E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.3836E-05
Total I (Ci)			1.8532E+06

DW to WW Transport Group Inventory:

Time (h) =	0.0200	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.0200	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.0200
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.4490E+14
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 7.2585E-06

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.0200
	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.5139E+11
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.2859E-08 4.7439E-09

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5283E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7731E-08

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5283E+11
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7731E-08

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5112E-11	1.7214E-08	6.4296E-10
Accumulated dose (rem)	1.0613E-10	2.1456E-08	8.0143E-10

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1587E-11	2.3434E-09	8.7529E-11
Accumulated dose (rem)	1.4447E-11	2.9208E-09	1.0910E-10

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1108E-14	9.5175E-11	3.1154E-12
Accumulated dose (rem)	4.1684E-14	1.2770E-10	4.1800E-12

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	5.2224E+01	6.4183E-07	4.4944E+18	1.3165E+14
Rb-88	2.0112E+04	1.6661E-07	1.1402E+18	5.1634E+16
I-131	3.1515E+05	2.5420E-03	1.1686E+22	7.9444E+17
I-132	4.5622E+05	4.4198E-05	2.0164E+20	1.1527E+18
I-133	6.5288E+05	5.7633E-04	2.6096E+21	1.6464E+18
I-134	7.3213E+05	2.7445E-05	1.2334E+20	1.8619E+18
I-135	6.1567E+05	1.7531E-04	7.8204E+20	1.5538E+18
Xe-133	6.6007E+01	3.5263E-07	1.5967E+18	6.1233E+13
Xe-133m	4.6412E+00	1.0542E-08	4.7734E+16	4.3056E+12
Xe-135	7.5803E+02	2.9683E-07	1.3241E+18	7.0254E+14
Xe-135m	4.6674E+03	5.1272E-08	2.2871E+17	4.3205E+15
Cs-134	5.2227E+03	4.0366E-03	1.8141E+22	1.3165E+16
Cs-136	1.5934E+03	2.1741E-05	9.6269E+19	4.0167E+15
Cs-137	4.0547E+03	4.6615E-02	2.0491E+23	1.0221E+16

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	3.1973E+18	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	5.4039E-02	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.1333E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.5718E-05
Total I (Ci)			2.7720E+06

DW to WW Transport Group Inventory:

Time (h) = 0.0300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0300 Leakage Transport

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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.0300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4878E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6330E-05

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.0300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0883E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.8930E-08	1.0673E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.0300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9511E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.0739E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.0300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9511E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.0739E-07

EAB Doses:

Time (h) = 0.0400	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2828E-10	4.6298E-08	1.7285E-09
Accumulated dose (rem)	3.3440E-10	6.7753E-08	2.5300E-09

LPZ Doses:

Time (h) = 0.0400	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1077E-11	6.3027E-09	2.3531E-10
Accumulated dose (rem)	4.5524E-11	9.2236E-09	3.4442E-10

CR Doses:

Time (h) = 0.0400	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.4422E-14	2.5735E-10	8.4236E-12
Accumulated dose (rem)	1.2611E-13	3.8504E-10	1.2604E-11

DW Compartment Nuclide Inventory:

Time (h) = 0.0400	Ci	kg	Atoms	Decay
Rb-86	6.9624E+01	8.5568E-07	5.9919E+18	2.2439E+14
Rb-88	2.6487E+04	2.1941E-07	1.5015E+18	8.7332E+16
I-131	4.2014E+05	3.3889E-03	1.5579E+22	1.3541E+18
I-132	6.0724E+05	5.8829E-05	2.6839E+20	1.9628E+18
I-133	8.7012E+05	7.6811E-04	3.4779E+21	2.8056E+18
I-134	9.6839E+05	3.6301E-05	1.6314E+20	3.1569E+18
I-135	8.1995E+05	2.3348E-04	1.0415E+21	2.6465E+18
Xe-133	1.1247E+02	6.0087E-07	2.7207E+18	1.4913E+14
Xe-133m	7.9082E+00	1.7963E-08	8.1334E+16	1.0486E+13
Xe-135	1.2925E+03	5.0613E-07	2.2578E+18	1.7116E+15
Xe-135m	7.8863E+03	8.6631E-08	3.8645E+17	1.0453E+16
Cs-134	6.9628E+03	5.3816E-03	2.4186E+22	2.2440E+16

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Cs-136	2.1243E+03	2.8984E-05	1.2834E+20	6.8463E+15
Cs-137	5.4057E+03	6.2147E-02	2.7318E+23	1.7421E+16

DW Transport Group Inventory:

Time (h) =	0.0400	Atmosphere	Sump
Noble gases (atoms)	5.4463E+18	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	7.2044E-02	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	6.8425E-05	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	8.7578E-05	
Total I (Ci)		3.6858E+06	

DW to WW Transport Group Inventory:

Time (h) =	0.0400	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.0400	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0928E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.9029E-05

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0400	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6500E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.1427E-08	1.8973E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0400	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.1858E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9089E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0400	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.1858E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9089E-07

EAB Doses:

Time (h) =	0.0500	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7950E-10	9.7520E-08	3.6394E-09	
Accumulated dose (rem)	8.1391E-10	1.6527E-07	6.1694E-09	

LPZ Doses:

Time (h) =	0.0500	Whole Body	Thyroid	TEDE
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Delta dose (rem)	6.5277E-11	1.3276E-08	4.9545E-10
Accumulated dose (rem)	1.1080E-10	2.2499E-08	8.3987E-10

CR Doses:

Time (h) =	0.0500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0539E-13	6.2439E-10	2.0437E-11
Accumulated dose (rem)		3.3149E-13	1.0094E-09	3.3041E-11

DW Compartment Nuclide Inventory:

Time (h) =	0.0500	Ci	kg	Atoms	Decay
Rb-86		8.7020E+01	1.0695E-06	7.4889E+18	3.4030E+14
Rb-88		3.2711E+04	2.7098E-07	1.8544E+18	1.3142E+17
I-131		5.2510E+05	4.2355E-03	1.9471E+22	2.0535E+18
I-132		7.5777E+05	7.3412E-05	3.3492E+20	2.9737E+18
I-133		1.0872E+06	9.5972E-04	4.3455E+21	4.2539E+18
I-134		1.2008E+06	4.5014E-05	2.0230E+20	4.7628E+18
I-135		1.0238E+06	2.9151E-04	1.3004E+21	4.0109E+18
Xe-133		1.7052E+02	9.1100E-07	4.1249E+18	2.9891E+14
Xe-133m		1.1990E+01	2.7233E-08	1.2331E+17	2.1017E+13
Xe-135		1.9611E+03	7.6792E-07	3.4256E+18	3.4323E+15
Xe-135m		1.1850E+04	1.3017E-07	5.8066E+17	2.0813E+16
Cs-134		8.7027E+03	6.7263E-03	3.0229E+22	3.4032E+16
Cs-136		2.6550E+03	3.6225E-05	1.6041E+20	1.0383E+16
Cs-137		6.7564E+03	7.7676E-02	3.4144E+23	2.6421E+16

DW Transport Group Inventory:

Time (h) =	0.0500	Atmosphere	Sump
Noble gases (atoms)		8.2545E+18	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		9.0045E-02	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			8.5508E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.0941E-04
Total I (Ci)			4.5946E+06

DW to WW Transport Group Inventory:

Time (h) = 0.0500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0500	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.1897E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.5355E-05

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0500	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.3103E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	8.0348E-08	2.9642E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Pathway

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Time (h) =	0.0500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4399E+13	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.9825E-07	

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	0.0500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4399E+13	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.9825E-07	

EAB Doses:

Time (h) =	0.0600	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6861E-10	1.7715E-07	6.6084E-09	
Accumulated dose (rem)	1.6825E-09	3.4242E-07	1.2778E-08	

LPZ Doses:

Time (h) =	0.0600	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1825E-10	2.4116E-08	8.9963E-10	
Accumulated dose (rem)	2.2905E-10	4.6615E-08	1.7395E-09	

CR Doses:

Time (h) =	0.0600	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3673E-13	1.3248E-09	4.3363E-11	
Accumulated dose (rem)	7.6822E-13	2.3343E-09	7.6404E-11	

DW Compartment Nuclide Inventory:

Time (h) =	0.0600	Ci	kg	Atoms	Decay
Rb-86	1.0441E+02	1.2832E-06	8.9857E+18	4.7938E+14	
Rb-88	3.8789E+04	3.2132E-07	2.1989E+18	1.8370E+17	
I-131	6.3003E+05	5.0820E-03	2.3362E+22	2.8927E+18	
I-132	9.0781E+05	8.7947E-05	4.0124E+20	4.1847E+18	
I-133	1.3040E+06	1.1512E-03	5.2124E+21	5.9912E+18	
I-134	1.4295E+06	5.3586E-05	2.4082E+20	6.6744E+18	
I-135	1.2271E+06	3.4941E-04	1.5587E+21	5.6462E+18	
Xe-133	2.4014E+02	1.2829E-06	5.8090E+18	5.2600E+14	
Xe-133m	1.6884E+01	3.8351E-08	1.7365E+17	3.6983E+13	
Xe-135	2.7638E+03	1.0823E-06	4.8278E+18	6.0429E+15	
Xe-135m	1.6535E+04	1.8164E-07	8.1028E+17	3.6381E+16	
Cs-134	1.0442E+04	8.0707E-03	3.6271E+22	4.7941E+16	
Cs-136	3.1856E+03	4.3465E-05	1.9247E+20	1.4626E+16	
Cs-137	8.1068E+03	9.3201E-02	4.0969E+23	3.7219E+16	

DW Transport Group Inventory:

Time (h) =	0.0600	Atmosphere	Sump	
Noble gases (atoms)	1.1621E+19	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.0804E-01	0.0000E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0258E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3123E-04	
Total I (Ci)			5.4985E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.0600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8523E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5306E-05

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.3422E+12
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.1569E-07	4.2682E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5332E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.2945E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5332E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.2945E-07

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.0700			
Delta dose (rem)	1.4249E-09	2.9142E-07	1.0867E-08
Accumulated dose (rem)	3.1074E-09	6.3384E-07	2.3645E-08

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.0700			
Delta dose (rem)	1.9398E-10	3.9672E-08	1.4793E-09
Accumulated dose (rem)	4.2303E-10	8.6288E-08	3.2188E-09

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.0700			
Delta dose (rem)	8.3180E-13	2.5188E-09	8.2438E-11
Accumulated dose (rem)	1.6000E-12	4.8530E-09	1.5884E-10

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
0.0700				
Rb-86	1.2180E+02	1.4969E-06	1.0482E+19	6.4162E+14
Rb-88	4.4723E+04	3.7048E-07	2.5353E+18	2.4397E+17
I-131	7.3494E+05	5.9281E-03	2.7252E+22	3.8717E+18
I-132	1.0573E+06	1.0243E-04	4.6733E+20	5.5952E+18
I-133	1.5207E+06	1.3424E-03	6.0785E+21	8.0172E+18
I-134	1.6544E+06	6.2018E-05	2.7872E+20	8.8869E+18
I-135	1.4300E+06	4.0718E-04	1.8164E+21	7.5519E+18
Xe-133	3.2132E+02	1.7166E-06	7.7727E+18	8.4579E+14
Xe-133m	2.2591E+01	5.1314E-08	2.3234E+17	5.9466E+13
Xe-135	3.7008E+03	1.4492E-06	6.4646E+18	9.7221E+15
Xe-135m	2.1922E+04	2.4082E-07	1.0742E+18	5.8105E+16
Cs-134	1.2181E+04	9.4149E-03	4.2312E+22	6.4166E+16
Cs-136	3.7161E+03	5.0703E-05	2.2451E+20	1.9576E+16
Cs-137	9.4570E+03	1.0872E-01	4.7792E+23	4.9816E+16

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DW Transport Group Inventory:

Time (h) =	0.0700	Atmosphere	Sump
Noble gases (atoms)	1.5544E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2603E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1965E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.5302E-04
Total I (Ci)			6.3974E+06

DW to WW Transport Group Inventory:

Time (h) = 0.0700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0700	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.1929E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.8882E-05

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0700	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5018E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5746E-07	5.8090E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0700	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.0724E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8448E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0700	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.0724E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8448E-07

EAB Doses:

Time (h) =	0.0800	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1773E-09	4.4655E-07	1.6644E-08
Accumulated dose (rem)		5.2848E-09	1.0804E-06	4.0289E-08

LPZ Doses:

Time (h) =	0.0800	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9641E-10	6.0791E-08	2.2659E-09
Accumulated dose (rem)		7.1944E-10	1.4708E-07	5.4847E-09

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CR Doses:

Time (h) =	0.0800	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4545E-12	4.3975E-09	1.4392E-10
Accumulated dose (rem)		3.0546E-12	9.2505E-09	3.0276E-10

DW Compartment Nuclide Inventory:

Time (h) =	0.0800	Ci	kg	Atoms	Decay
Rb-86		1.3918E+02	1.7105E-06	1.1978E+19	8.2701E+14
Rb-88		5.0516E+04	4.1846E-07	2.8637E+18	3.1206E+17
I-131		8.3982E+05	6.7741E-03	3.1141E+22	4.9904E+18
I-132		1.2064E+06	1.1687E-04	5.3321E+20	7.2046E+18
I-133		1.7372E+06	1.5335E-03	6.9438E+21	1.0332E+19
I-134		1.8757E+06	7.0313E-05	3.1599E+20	1.1395E+19
I-135		1.6324E+06	4.6481E-04	2.0735E+21	9.7274E+18
Xe-133		4.1404E+02	2.2120E-06	1.0016E+19	1.2737E+15
Xe-133m		2.9109E+01	6.6119E-08	2.9938E+17	8.9550E+13
Xe-135		4.7722E+03	1.8687E-06	8.3361E+18	1.4649E+16
Xe-135m		2.7989E+04	3.0746E-07	1.3715E+18	8.6906E+16
Cs-134		1.3920E+04	1.0759E-02	4.8351E+22	8.2707E+16
Cs-136		4.2464E+03	5.7939E-05	2.5656E+20	2.5232E+16
Cs-137		1.0807E+04	1.2424E-01	5.4614E+23	6.4211E+16

DW Transport Group Inventory:

Time (h) =	0.0800	Atmosphere	Sump
Noble gases (atoms)		2.0023E+19	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.4402E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3670E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7478E-04
Total I (Ci)			7.2915E+06

DW to WW Transport Group Inventory:

Time (h) = 0.0800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.0800
	Filtered Transported
Noble gases (atoms)	0.0000E+00 9.3237E+15
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 1.1608E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.0800
	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2611E+13
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	2.0564E-07 7.5867E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) =	0.0800
	Filtered Transported
Noble gases (atoms)	0.0000E+00 6.1312E+13

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	7.6334E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.0800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1312E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	7.6334E-07

EAB Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.2017E-10	1.8924E-07	7.0506E-09
Accumulated dose (rem)	6.2050E-09	1.2696E-06	4.7340E-08

LPZ Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2527E-10	2.5762E-08	9.5983E-10
Accumulated dose (rem)	8.4471E-10	1.7284E-07	6.4446E-09

CR Doses:

Time (h) = 0.0833	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5585E-13	1.9849E-09	6.4956E-11
Accumulated dose (rem)	3.7104E-12	1.1235E-08	3.6772E-10

DW Compartment Nuclide Inventory:

Time (h) = 0.0833	Ci	kg	Atoms	Decay
Rb-86	1.4492E+02	1.7810E-06	1.2472E+19	8.9071E+14
Rb-88	5.2415E+04	4.3420E-07	2.9714E+18	3.3519E+17
I-131	8.7442E+05	7.0532E-03	3.2424E+22	5.3747E+18
I-132	1.2555E+06	1.2163E-04	5.5492E+20	7.7567E+18
I-133	1.8086E+06	1.5966E-03	7.2292E+21	1.1127E+19
I-134	1.9479E+06	7.3020E-05	3.2816E+20	1.2253E+19
I-135	1.6991E+06	4.8380E-04	2.1582E+21	1.0474E+19
Xe-133	4.4589E+02	2.3821E-06	1.0786E+19	1.4557E+15
Xe-133m	3.1348E+01	7.1204E-08	3.2241E+17	1.0234E+14
Xe-135	5.1411E+03	2.0132E-06	8.9805E+18	1.6746E+16
Xe-135m	3.0024E+04	3.2981E-07	1.4712E+18	9.9153E+16
Cs-134	1.4494E+04	1.1202E-02	5.0344E+22	8.9078E+16
Cs-136	4.4214E+03	6.0327E-05	2.6713E+20	2.7176E+16
Cs-137	1.1252E+04	1.2936E-01	5.6865E+23	6.9157E+16

DW Transport Group Inventory:

Time (h) = 0.0833	Atmosphere	Sump
Noble gases (atoms)	2.1560E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4996E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4233E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.8196E-04
Total I (Ci)		7.5855E+06

DW to WW Transport Group Inventory:

Time (h) = 0.0833 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0833 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0655E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2585E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5839E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.2295E-07	8.2253E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.0064E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.2759E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0833	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.0064E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.2759E-07

EAB Doses:

Time (h) =	0.0900	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2320E-09	4.5947E-07	1.7116E-08
Accumulated dose (rem)		8.4370E-09	1.7291E-06	6.4456E-08

LPZ Doses:

Time (h) =	0.0900	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0385E-10	6.2549E-08	2.3301E-09
Accumulated dose (rem)		1.1486E-09	2.3539E-07	8.7747E-09

CR Doses:

Time (h) =	0.0900	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7005E-12	5.1351E-09	1.6805E-10
Accumulated dose (rem)		5.4109E-12	1.6371E-08	5.3577E-10

DW Compartment Nuclide Inventory:

Time (h) =	0.0900	Ci	kg	Atoms	Decay
Rb-86		1.5658E+02	1.9244E-06	1.3475E+19	1.0304E+15
Rb-88		5.6213E+04	4.6566E-07	3.1867E+18	3.8575E+17
I-131		9.4479E+05	7.6208E-03	3.5033E+22	6.2179E+18
I-132		1.3552E+06	1.3129E-04	5.9899E+20	8.9674E+18
I-133		1.9538E+06	1.7247E-03	7.8093E+21	1.2870E+19
I-134		2.0936E+06	7.8481E-05	3.5270E+20	1.4126E+19
I-135		1.8345E+06	5.2238E-04	2.3303E+21	1.2112E+19
Xe-133		5.1579E+02	2.7556E-06	1.2477E+19	1.8536E+15
Xe-133m		3.6262E+01	8.2366E-08	3.7295E+17	1.3032E+14
Xe-135		5.9505E+03	2.3301E-06	1.0394E+19	2.1333E+16
Xe-135m		3.4495E+04	3.7893E-07	1.6903E+18	1.2571E+17
Cs-134		1.5660E+04	1.2104E-02	5.4396E+22	1.0305E+17
Cs-136		4.7772E+03	6.5182E-05	2.8863E+20	3.1439E+16
Cs-137		1.2158E+04	1.3978E-01	6.1442E+23	8.0007E+16

DW Transport Group Inventory:

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Time (h) =	0.0900	Atmosphere	Sump
Noble gases (atoms)	2.4935E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.6203E-01	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.5377E-04	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.9655E-04	
Total I (Ci)		8.1819E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.0900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.0900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.0900	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0732E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2642E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.0900	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.2895E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.6025E-07	9.6012E-08

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.0900	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.9198E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	9.6604E-07

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.0900	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.9198E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	9.6604E-07

EAB Doses:

Time (h) =	0.1000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3836E-09	9.0412E-07	3.3671E-08	
Accumulated dose (rem)	1.2821E-08	2.6332E-06	9.8127E-08	

LPZ Doses:

Time (h) =	0.1000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9676E-10	1.2308E-07	4.5838E-09	
Accumulated dose (rem)	1.7453E-09	3.5847E-07	1.3359E-08	

CR Doses:

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Time (h) =	0.1000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.6937E-12	1.1129E-08	3.6421E-10
Accumulated dose (rem)		9.1046E-12	2.7500E-08	8.9998E-10

DW Compartment Nuclide Inventory:

Time (h) =	0.1000	Ci	kg	Atoms	Decay
Rb-86		1.7399E+02	2.1383E-06	1.4974E+19	1.2622E+15
Rb-88		6.1743E+04	5.1147E-07	3.5001E+18	4.6897E+17
I-131		1.0498E+06	8.4679E-03	3.8927E+22	7.6163E+18
I-132		1.5036E+06	1.4567E-04	6.6456E+20	1.0973E+19
I-133		2.1703E+06	1.9158E-03	8.6748E+21	1.5762E+19
I-134		2.3081E+06	8.6520E-05	3.8883E+20	1.7213E+19
I-135		2.0364E+06	5.7986E-04	2.5866E+21	1.4826E+19
Xe-133		6.3170E+02	3.3748E-06	1.5281E+19	2.5406E+15
Xe-133m		4.4410E+01	1.0087E-07	4.5674E+17	1.7862E+14
Xe-135		7.2923E+03	2.8556E-06	1.2738E+19	2.9256E+16
Xe-135m		4.1877E+04	4.6002E-07	2.0521E+18	1.7103E+17
Cs-134		1.7402E+04	1.3450E-02	6.0445E+22	1.2623E+17
Cs-136		5.3083E+03	7.2428E-05	3.2071E+20	3.8510E+16
Cs-137		1.3510E+04	1.5532E-01	6.8274E+23	9.8002E+16

DW Transport Group Inventory:

Time (h) =	0.1000	Atmosphere	Sump
Noble gases (atoms)		3.0528E+19	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.8004E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.7084E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.1831E-04
Total I (Ci)			9.0681E+06

DW to WW Transport Group Inventory:

Time (h) = 0.1000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.1000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0867E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2734E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.1000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.5076E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.2128E-07	1.1853E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.1000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2223E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 1.1926E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2223E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1926E-06

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8929E-09	1.2189E-06	4.5374E-08
Accumulated dose (rem)	1.8713E-08	3.8521E-06	1.4350E-07

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.0223E-10	1.6593E-07	6.1770E-09
Accumulated dose (rem)	2.5476E-09	5.2440E-07	1.9536E-08

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4875E-12	1.6519E-08	5.4057E-10
Accumulated dose (rem)	1.4592E-11	4.4019E-08	1.4406E-09

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.9140E+02	2.3523E-06	1.6472E+19	1.5171E+15
Rb-88	6.7141E+04	5.5619E-07	3.8062E+18	5.5946E+17
I-131	1.1548E+06	9.3149E-03	4.2821E+22	9.1545E+18
I-132	1.6515E+06	1.5999E-04	7.2992E+20	1.3176E+19
I-133	2.3867E+06	2.1068E-03	9.5396E+21	1.8941E+19
I-134	2.5190E+06	9.4428E-05	4.2437E+20	2.0581E+19
I-135	2.2378E+06	6.3721E-04	2.8425E+21	1.7808E+19
Xe-133	7.5916E+02	4.0558E-06	1.8364E+19	3.3820E+15
Xe-133m	5.3369E+01	1.2122E-07	5.4889E+17	2.3777E+14
Xe-135	8.7692E+03	3.4339E-06	1.5318E+19	3.8966E+16
Xe-135m	4.9883E+04	5.4797E-07	2.4444E+18	2.2606E+17
Cs-134	1.9143E+04	1.4796E-02	6.6493E+22	1.5173E+17
Cs-136	5.8393E+03	7.9673E-05	3.5280E+20	4.6288E+16
Cs-137	1.4862E+04	1.7086E-01	7.5106E+23	1.1780E+17

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	3.6675E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.9805E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.8790E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.4006E-04
Total I (Ci)		9.9498E+06

DW to WW Transport Group Inventory:

Time (h) = 0.1100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) =	0.1100	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1031E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2836E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.1100	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9989E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8874E-07	1.4342E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.1100	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6267E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4430E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.1100	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6267E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4430E-06

EAB Doses:

Time (h) =	0.1200	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.7094E-09	1.5991E-06	5.9504E-08
Accumulated dose (rem)		2.6423E-08	5.4511E-06	2.0301E-07

LPZ Doses:

Time (h) =	0.1200	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0495E-09	2.1769E-07	8.1005E-09
Accumulated dose (rem)		3.5971E-09	7.4209E-07	2.7636E-08

CR Doses:

Time (h) =	0.1200	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.8690E-12	2.3667E-08	7.7444E-10
Accumulated dose (rem)		2.2461E-11	6.7686E-08	2.2150E-09

DW Compartment Nuclide Inventory:

Time (h) =	0.1200	Ci	kg	Atoms	Decay
Rb-86		2.0880E+02	2.5662E-06	1.7970E+19	1.7953E+15
Rb-88		7.2411E+04	5.9984E-07	4.1049E+18	6.5705E+17
I-131		1.2598E+06	1.0162E-02	4.6715E+22	1.0833E+19
I-132		1.7989E+06	1.7428E-04	7.9509E+20	1.5576E+19
I-133		2.6029E+06	2.2977E-03	1.0404E+22	2.2409E+19
I-134		2.7265E+06	1.0221E-04	4.5933E+20	2.4227E+19
I-135		2.4388E+06	6.9444E-04	3.0978E+21	2.1058E+19
Xe-133		8.9817E+02	4.7984E-06	2.1727E+19	4.3932E+15
Xe-133m		6.3139E+01	1.4341E-07	6.4937E+17	3.0885E+14
Xe-135		1.0381E+04	4.0652E-06	1.8134E+19	5.0642E+16
Xe-135m		5.8494E+04	6.4256E-07	2.8663E+18	2.9161E+17
Cs-134		2.0884E+04	1.6141E-02	7.2541E+22	1.7955E+17
Cs-136		6.3703E+03	8.6918E-05	3.8488E+20	5.4773E+16
Cs-137		1.6214E+04	1.8640E-01	8.1937E+23	1.3939E+17

DW Transport Group Inventory:

Time (h) =	0.1200	Atmosphere	Sump
Noble gases (atoms)		4.3376E+19	0.0000E+00

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Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	2.1606E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.0496E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.6178E-04
Total I (Ci)			1.0827E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.1200	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1229E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2947E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.1200	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7905E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6263E-07	1.7068E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.1200	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1125E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7173E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.1200	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1125E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7173E-06

EAB Doses:

Time (h) = 0.1300	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.8596E-09	2.0509E-06	7.6284E-08
Accumulated dose (rem)	3.6282E-08	7.5020E-06	2.7929E-07

LPZ Doses:

Time (h) = 0.1300	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3422E-09	2.7919E-07	1.0385E-08
Accumulated dose (rem)	4.9393E-09	1.0213E-06	3.8021E-08

CR Doses:

Time (h) = 0.1300	Whole Body	Thyroid	TEDE
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Delta dose (rem) 1.0954E-11 3.2916E-08 1.0771E-09
 Accumulated dose (rem) 3.3415E-11 1.0060E-07 3.2920E-09

DW Compartment Nuclide Inventory:

Time (h) = 0.1300	Ci	kg	Atoms	Decay
Rb-86	2.2621E+02	2.7801E-06	1.9468E+19	2.0966E+15
Rb-88	7.7555E+04	6.4246E-07	4.3966E+18	7.6158E+17
I-131	1.3648E+06	1.1009E-02	5.0608E+22	1.2651E+19
I-132	1.9459E+06	1.8852E-04	8.6005E+20	1.8172E+19
I-133	2.8190E+06	2.4885E-03	1.1268E+22	2.6164E+19
I-134	2.9306E+06	1.0986E-04	4.9371E+20	2.8146E+19
I-135	2.6393E+06	7.5155E-04	3.3526E+21	2.4576E+19
Xe-133	1.0487E+03	5.6026E-06	2.5368E+19	5.5895E+15
Xe-133m	7.3720E+01	1.6745E-07	7.5819E+17	3.9294E+14
Xe-135	1.2129E+04	4.7494E-06	2.1186E+19	6.4464E+16
Xe-135m	6.7692E+04	7.4360E-07	3.3171E+18	3.6847E+17
Cs-134	2.2625E+04	1.7487E-02	7.8589E+22	2.0969E+17
Cs-136	6.9013E+03	9.4163E-05	4.1696E+20	6.3966E+16
Cs-137	1.7565E+04	2.0194E-01	8.8769E+23	1.6279E+17

DW Transport Group Inventory:

Time (h) = 0.1300	Atmosphere	Sump
Noble gases (atoms)	5.0630E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.3408E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.2201E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.8349E-04
Total I (Ci)		1.1700E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 0.1300	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1463E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3069E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 0.1300	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.9094E+13
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.4295E-07	2.0031E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 0.1300	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6870E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0154E-06

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.1300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6870E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0154E-06

EAB Doses:

Time (h) = 0.1400	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2370E-08	2.5803E-06	9.5937E-08
Accumulated dose (rem)	4.8652E-08	1.0082E-05	3.7523E-07

LPZ Doses:

Time (h) = 0.1400	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6839E-09	3.5127E-07	1.3060E-08
Accumulated dose (rem)	6.6232E-09	1.3725E-06	5.1081E-08

CR Doses:

Time (h) = 0.1400	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4867E-11	4.4641E-08	1.4606E-09
Accumulated dose (rem)	4.8282E-11	1.4524E-07	4.7527E-09

DW Compartment Nuclide Inventory:

Time (h) = 0.1400	Ci	kg	Atoms	Decay
Rb-86	2.4361E+02	2.9940E-06	2.0965E+19	2.4211E+15
Rb-88	8.2576E+04	6.8405E-07	4.6812E+18	8.7287E+17
I-131	1.4698E+06	1.1856E-02	5.4501E+22	1.4608E+19
I-132	2.0924E+06	2.0271E-04	9.2481E+20	2.0963E+19
I-133	3.0349E+06	2.6791E-03	1.2131E+22	3.0207E+19
I-134	3.1313E+06	1.1738E-04	5.2751E+20	3.2334E+19
I-135	2.8395E+06	8.0854E-04	3.6068E+21	2.8360E+19
Xe-133	1.2108E+03	6.4684E-06	2.9288E+19	6.9863E+15
Xe-133m	8.5110E+01	1.9332E-07	8.7534E+17	4.9113E+14
Xe-135	1.4011E+04	5.4866E-06	2.4475E+19	8.0613E+16
Xe-135m	7.7460E+04	8.5090E-07	3.7957E+18	4.5742E+17
Cs-134	2.4367E+04	1.8833E-02	8.4637E+22	2.4214E+17
Cs-136	7.4323E+03	1.0141E-04	4.4904E+20	7.3866E+16
Cs-137	1.8917E+04	2.1748E-01	9.5600E+23	1.8799E+17

DW Transport Group Inventory:

Time (h) = 0.1400	Atmosphere	Sump
Noble gases (atoms)	5.8434E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.5209E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.3905E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.0518E-04
Total I (Ci)		1.2568E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Pathway

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Time (h) =	0.1400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	1.1736E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	1.3199E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway		
Time (h) =	0.1400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	1.2383E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	6.2970E-07	0.0000E+00	2.3231E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway		
Time (h) =	0.1400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	3.3577E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	2.3374E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	0.1400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	3.3577E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	2.3374E-06

EAB Doses:

Time (h) =	0.1500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5266E-08	1.5266E-08	3.1934E-06	1.1868E-07
Accumulated dose (rem)	6.3918E-08	6.3918E-08	1.3276E-05	4.9391E-07

LPZ Doses:

Time (h) =	0.1500	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0782E-09	2.0782E-09	4.3473E-07	1.6157E-08
Accumulated dose (rem)	8.7014E-09	8.7014E-09	1.8073E-06	6.7238E-08

CR Doses:

Time (h) =	0.1500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9745E-11	1.9745E-11	5.9246E-08	1.9384E-09
Accumulated dose (rem)	6.8027E-11	6.8027E-11	2.0449E-07	6.6911E-09

DW Compartment Nuclide Inventory:

Time (h) =	0.1500	Ci	kg	Atoms	Decay
Rb-86	2.6102E+02	3.2079E-06	2.2463E+19	2.7688E+15	
Rb-88	8.7477E+04	7.2465E-07	4.9590E+18	9.9077E+17	
I-131	1.5748E+06	1.2702E-02	5.8393E+22	1.6706E+19	
I-132	2.2385E+06	2.1686E-04	9.8937E+20	2.3949E+19	
I-133	3.2507E+06	2.8696E-03	1.2993E+22	3.4538E+19	
I-134	3.3286E+06	1.2478E-04	5.6076E+20	3.6785E+19	
I-135	3.0392E+06	8.6541E-04	3.8605E+21	3.2410E+19	
Xe-133	1.3843E+03	7.3957E-06	3.3487E+19	8.5990E+15	
Xe-133m	9.7309E+01	2.2103E-07	1.0008E+18	6.0449E+14	
Xe-135	1.6029E+04	6.2769E-06	2.8000E+19	9.9269E+16	
Xe-135m	8.7780E+04	9.6427E-07	4.3015E+18	5.5921E+17	
Cs-134	2.6108E+04	2.0179E-02	9.0685E+22	2.7692E+17	
Cs-136	7.9632E+03	1.0865E-04	4.8111E+20	8.4473E+16	
Cs-137	2.0269E+04	2.3303E-01	1.0243E+24	2.1499E+17	

DW Transport Group Inventory:

Time (h) =	0.1500	Atmosphere	Sump
Noble gases (atoms)	6.6790E+19	0.0000E+00	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00

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Aerosols (kg)	2.7010E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.5609E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.2685E-04
Total I (Ci)			1.3432E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.1500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2050E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3340E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.1500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5237E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	7.2287E-07	2.6668E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.1500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1317E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.6833E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.1500	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1317E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.6833E-06

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.1600			
Delta dose (rem)	1.8573E-08	3.8962E-06	1.4475E-07
Accumulated dose (rem)	8.2490E-08	1.7172E-05	6.3866E-07

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.1600			
Delta dose (rem)	2.5284E-09	5.3041E-07	1.9705E-08
Accumulated dose (rem)	1.1230E-08	2.3377E-06	8.6943E-08

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.1600			
Delta dose (rem)	2.5733E-11	7.7162E-08	2.5245E-09
Accumulated dose (rem)	9.3760E-11	2.8165E-07	9.2155E-09

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DW Compartment Nuclide Inventory:

Time (h) =	0.1600	Ci	kg	Atoms	Decay
Rb-86		2.7842E+02	3.4218E-06	2.3961E+19	3.1396E+15
Rb-88		9.2259E+04	7.6426E-07	5.2301E+18	1.1151E+18
I-131		1.6797E+06	1.3549E-02	6.2286E+22	1.8943E+19
I-132		2.3841E+06	2.3097E-04	1.0537E+21	2.7130E+19
I-133		3.4663E+06	3.0599E-03	1.3855E+22	3.9156E+19
I-134		3.5226E+06	1.3205E-04	5.9344E+20	4.1496E+19
I-135		3.2385E+06	9.2216E-04	4.1136E+21	3.6726E+19
Xe-133		1.5694E+03	8.3846E-06	3.7965E+19	1.0443E+16
Xe-133m		1.1032E+02	2.5058E-07	1.1346E+18	7.3409E+14
Xe-135		1.8183E+04	7.1201E-06	3.1762E+19	1.2061E+17
Xe-135m		9.8637E+04	1.0835E-06	4.8335E+18	6.7456E+17
Cs-134		2.7849E+04	2.1524E-02	9.6733E+22	3.1401E+17
Cs-136		8.4941E+03	1.1590E-04	5.1319E+20	9.5787E+16
Cs-137		2.1621E+04	2.4857E-01	1.0926E+24	2.4379E+17

DW Transport Group Inventory:

Time (h) =	0.1600	Atmosphere	Sump
Noble gases (atoms)		7.5694E+19	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		2.8811E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			2.7313E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.4851E-04
Total I (Ci)			1.4291E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.1600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2410E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3491E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.1600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8500E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	8.2247E-07	3.0343E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.1600	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0164E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0530E-06

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	Pathway	
	Filtered	Transported
Time (h) = 0.1600		
Noble gases (atoms)	0.0000E+00	5.0164E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0530E-06

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.1700			
Delta dose (rem)	2.2315E-08	4.6948E-06	1.7434E-07
Accumulated dose (rem)	1.0481E-07	2.1867E-05	8.1300E-07

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.1700			
Delta dose (rem)	3.0379E-09	6.3912E-07	2.3734E-08
Accumulated dose (rem)	1.4268E-08	2.9768E-06	1.1068E-07

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.1700			
Delta dose (rem)	3.2985E-11	9.8852E-08	3.2339E-09
Accumulated dose (rem)	1.2675E-10	3.8050E-07	1.2449E-08

DW Compartment Nuclide Inventory:

Time (h) = 0.1700	Ci	kg	Atoms	Decay
Rb-86	2.9582E+02	3.6357E-06	2.5459E+19	3.5337E+15
Rb-88	9.6926E+04	8.0292E-07	5.4946E+18	1.2457E+18
I-131	1.7847E+06	1.4396E-02	6.6178E+22	2.1321E+19
I-132	2.5293E+06	2.4503E-04	1.1179E+21	3.0504E+19
I-133	3.6818E+06	3.2502E-03	1.4716E+22	4.4061E+19
I-134	3.7134E+06	1.3920E-04	6.2558E+20	4.6462E+19
I-135	3.4374E+06	9.7879E-04	4.3662E+21	4.1307E+19
Xe-133	1.7660E+03	9.4349E-06	4.2720E+19	1.2533E+16
Xe-133m	1.2413E+02	2.8196E-07	1.2767E+18	8.8103E+14
Xe-135	2.0472E+04	8.0164E-06	3.5760E+19	1.4482E+17
Xe-135m	1.1001E+05	1.2085E-06	5.3910E+18	8.0417E+17
Cs-134	2.9590E+04	2.2870E-02	1.0278E+23	3.5343E+17
Cs-136	9.0249E+03	1.2314E-04	5.4526E+20	1.0781E+17
Cs-137	2.2973E+04	2.6411E-01	1.1609E+24	2.7439E+17

DW Transport Group Inventory:

Time (h) = 0.1700	Atmosphere	Sump
Noble gases (atoms)	8.5148E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.0611E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.9015E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.7014E-04
Total I (Ci)		1.5147E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 0.1700		
Noble gases (atoms)	0.0000E+00	1.2818E+16

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3651E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.1700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2198E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	9.2849E-07	3.4254E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.1700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0191E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4465E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.1700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0191E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4465E-06

EAB Doses:

Time (h) = 0.1800	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6519E-08	5.5950E-06	2.0768E-07
Accumulated dose (rem)	1.3132E-07	2.7462E-05	1.0207E-06

LPZ Doses:

Time (h) = 0.1800	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6101E-09	7.6167E-07	2.8273E-08
Accumulated dose (rem)	1.7878E-08	3.7385E-06	1.3895E-07

CR Doses:

Time (h) = 0.1800	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1666E-11	1.2481E-07	4.0828E-09
Accumulated dose (rem)	1.6841E-10	5.0531E-07	1.6532E-08

DW Compartment Nuclide Inventory:

Time (h) = 0.1800	Ci	kg	Atoms	Decay
Rb-86	3.1323E+02	3.8495E-06	2.6956E+19	3.9509E+15
Rb-88	1.0148E+05	8.4064E-07	5.7528E+18	1.3825E+18
I-131	1.8897E+06	1.5242E-02	7.0069E+22	2.3838E+19
I-132	2.6740E+06	2.5905E-04	1.1819E+21	3.4071E+19
I-133	3.8971E+06	3.4403E-03	1.5577E+22	4.9253E+19
I-134	3.9009E+06	1.4623E-04	6.5718E+20	5.1678E+19
I-135	3.6358E+06	1.0353E-03	4.6183E+21	4.6153E+19
Xe-133	1.9741E+03	1.0547E-05	4.7754E+19	1.4886E+16
Xe-133m	1.3875E+02	3.1517E-07	1.4271E+18	1.0464E+15
Xe-135	2.2896E+04	8.9657E-06	3.9995E+19	1.7208E+17
Xe-135m	1.2189E+05	1.3390E-06	5.9732E+18	9.4873E+17
Cs-134	3.1331E+04	2.4216E-02	1.0883E+23	3.9516E+17
Cs-136	9.5558E+03	1.3038E-04	5.7733E+20	1.2054E+17
Cs-137	2.4324E+04	2.7965E-01	1.2293E+24	3.0679E+17

DW Transport Group Inventory:

Time (h) = 0.1800	Atmosphere	Sump
Noble gases (atoms)	9.5149E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.2412E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.0718E-04

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 3.9176E-04
 Total I (Ci) 1.5998E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1800 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1800 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3277E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3820E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6357E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.0409E-06	3.8403E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.1470E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8639E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.1470E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8639E-06

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1207E-08	6.6029E-06	2.4500E-07
Accumulated dose (rem)	1.6253E-07	3.4065E-05	1.2657E-06

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2483E-09	8.9888E-07	3.3352E-08
Accumulated dose (rem)	2.2126E-08	4.6374E-06	1.7230E-07

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1950E-11	1.5555E-07	5.0882E-09
Accumulated dose (rem)	2.2036E-10	6.6086E-07	2.1620E-08

DW Compartment Nuclide Inventory:

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Time (h) =	Ci	kg	Atoms	Decay
Rb-86	3.3063E+02	4.0634E-06	2.8454E+19	4.3913E+15
Rb-88	1.0592E+05	8.7744E-07	6.0046E+18	1.5253E+18
I-131	1.9946E+06	1.6089E-02	7.3961E+22	2.6495E+19
I-132	2.8183E+06	2.7303E-04	1.2456E+21	3.7830E+19
I-133	4.1124E+06	3.6302E-03	1.6437E+22	5.4731E+19
I-134	4.0853E+06	1.5314E-04	6.8823E+20	5.7141E+19
I-135	3.8338E+06	1.0917E-03	4.8698E+21	5.1262E+19
Xe-133	2.1937E+03	1.1720E-05	5.3065E+19	1.7515E+16
Xe-133m	1.5418E+02	3.5021E-07	1.5857E+18	1.2312E+15
Xe-135	2.5456E+04	9.9681E-06	4.4466E+19	2.0256E+17
Xe-135m	1.3427E+05	1.4749E-06	6.5793E+18	1.1089E+18
Cs-134	3.3072E+04	2.5562E-02	1.1488E+23	4.3921E+17
Cs-136	1.0087E+04	1.3762E-04	6.0941E+20	1.3397E+17
Cs-137	2.5676E+04	2.9519E-01	1.2976E+24	3.4099E+17

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	1.0570E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4213E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2419E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.1336E-04
Total I (Ci)		1.6844E+07

DW to WW Transport Group Inventory:

Time (h) = 0.1900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.1900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3790E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4000E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1005E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.1598E-06	4.2789E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.4073E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.3052E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	8.4073E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.3052E-06

EAB Doses:

Time (h) =	0.2000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.6403E-08	7.7243E-06	2.8649E-07
Accumulated dose (rem)		1.9893E-07	4.1789E-05	1.5522E-06

LPZ Doses:

Time (h) =	0.2000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.9557E-09	1.0515E-06	3.9001E-08
Accumulated dose (rem)		2.7082E-08	5.6889E-06	2.1130E-07

CR Doses:

Time (h) =	0.2000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.4019E-11	1.9162E-07	6.2678E-09
Accumulated dose (rem)		2.8438E-10	8.5247E-07	2.7888E-08

DW Compartment Nuclide Inventory:

Time (h) =	0.2000	Ci	kg	Atoms	Decay
Rb-86		3.4803E+02	4.2773E-06	2.9951E+19	4.8549E+15
Rb-88		1.1026E+05	9.1334E-07	6.2503E+18	1.6739E+18
I-131		2.0995E+06	1.6935E-02	7.7852E+22	2.9291E+19
I-132		2.9621E+06	2.8696E-04	1.3092E+21	4.1782E+19
I-133		4.3274E+06	3.8201E-03	1.7297E+22	6.0496E+19
I-134		4.2665E+06	1.5993E-04	7.1876E+20	6.2847E+19
I-135		4.0315E+06	1.1480E-03	5.1209E+21	5.6635E+19
Xe-133		2.4247E+03	1.2954E-05	5.8654E+19	2.0437E+16
Xe-133m		1.7042E+02	3.8709E-07	1.7527E+18	1.4365E+15
Xe-135		2.8151E+04	1.1023E-05	4.9174E+19	2.3646E+17
Xe-135m		1.4711E+05	1.6160E-06	7.2088E+18	1.2853E+18
Cs-134		3.4813E+04	2.6907E-02	1.2092E+23	4.8558E+17
Cs-136		1.0617E+04	1.4487E-04	6.4147E+20	1.4811E+17
Cs-137		2.7028E+04	3.1073E-01	1.3659E+24	3.7699E+17

DW Transport Group Inventory:

Time (h) =	0.2000	Atmosphere	Sump
Noble gases (atoms)		1.1679E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		3.6014E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			3.4120E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.3494E-04
Total I (Ci)			1.7687E+07

DW to WW Transport Group Inventory:

Time (h) = 0.2000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4359E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 1.4189E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.2000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6168E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2851E-06	4.7412E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.2000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8074E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7703E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.2000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8074E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7703E-06

EAB Doses:

Time (h) = 0.2100	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2131E-08	8.9651E-06	3.3238E-07
Accumulated dose (rem)	2.4107E-07	5.0754E-05	1.8845E-06

LPZ Doses:

Time (h) = 0.2100	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7355E-09	1.2205E-06	4.5248E-08
Accumulated dose (rem)	3.2817E-08	6.9094E-06	2.5655E-07

CR Doses:

Time (h) = 0.2100	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8066E-11	2.3360E-07	7.6406E-09
Accumulated dose (rem)	3.6245E-10	1.0861E-06	3.5529E-08

DW Compartment Nuclide Inventory:

Time (h) = 0.2100	Ci	kg	Atoms	Decay
Rb-86	3.6543E+02	4.4911E-06	3.1449E+19	5.3416E+15
Rb-88	1.1448E+05	9.4836E-07	6.4900E+18	1.8282E+18
I-131	2.2045E+06	1.7782E-02	8.1743E+22	3.2228E+19
I-132	3.1055E+06	3.0085E-04	1.3726E+21	4.5925E+19
I-133	4.5423E+06	4.0098E-03	1.8156E+22	6.6548E+19
I-134	4.4446E+06	1.6661E-04	7.4876E+20	6.8791E+19
I-135	4.2286E+06	1.2041E-03	5.3713E+21	6.2270E+19
Xe-133	2.6672E+03	1.4249E-05	6.4520E+19	2.3667E+16
Xe-133m	1.8746E+02	4.2579E-07	1.9280E+18	1.6635E+15
Xe-135	3.0981E+04	1.2132E-05	5.4118E+19	2.7394E+17
Xe-135m	1.6041E+05	1.7622E-06	7.8607E+18	1.4787E+18
Cs-134	3.6555E+04	2.8253E-02	1.2697E+23	5.3427E+17
Cs-136	1.1148E+04	1.5211E-04	6.7354E+20	1.6296E+17
Cs-137	2.8380E+04	3.2627E-01	1.4342E+24	4.1479E+17

DW Transport Group Inventory:

Time (h) = 0.2100	Atmosphere	Sump
Noble gases (atoms)	1.2843E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7814E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.5821E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.5651E-04
Total I (Ci)		1.8525E+07

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DW to WW Transport Group Inventory:

Time (h) = 0.2100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4989E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4388E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1874E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4169E-06	5.2271E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1354E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2593E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1354E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2593E-06

EAB Doses:

Time (h) =	0.2200	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8413E-08	1.0331E-05	3.8287E-07
Accumulated dose (rem)		2.8948E-07	6.1085E-05	2.2674E-06

LPZ Doses:

Time (h) =	0.2200	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.5907E-09	1.4065E-06	5.2122E-08
Accumulated dose (rem)		3.9408E-08	8.3158E-06	3.0867E-07

CR Doses:

Time (h) =	0.2200	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.4292E-11	2.8209E-07	9.2263E-09
Accumulated dose (rem)		4.5674E-10	1.3682E-06	4.4755E-08

DW Compartment Nuclide Inventory:

Time (h) =	0.2200	Ci	kg	Atoms	Decay
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Rb-86	3.8283E+02	4.7049E-06	3.2946E+19	5.8516E+15
Rb-88	1.1861E+05	9.8252E-07	6.7237E+18	1.9880E+18
I-131	2.3094E+06	1.8628E-02	8.5633E+22	3.5304E+19
I-132	3.2484E+06	3.1470E-04	1.4357E+21	5.0258E+19
I-133	4.7571E+06	4.1994E-03	1.9014E+22	7.2885E+19
I-134	4.6196E+06	1.7317E-04	7.7825E+20	7.4968E+19
I-135	4.4254E+06	1.2601E-03	5.6213E+21	6.8168E+19
Xe-133	2.9212E+03	1.5606E-05	7.0664E+19	2.7219E+16
Xe-133m	2.0530E+02	4.6632E-07	2.1115E+18	1.9132E+15
Xe-135	3.3947E+04	1.3293E-05	5.9299E+19	3.1519E+17
Xe-135m	1.7416E+05	1.9132E-06	8.5345E+18	1.6894E+18
Cs-134	3.8296E+04	2.9599E-02	1.3302E+23	5.8528E+17
Cs-136	1.1679E+04	1.5935E-04	7.0561E+20	1.7852E+17
Cs-137	2.9731E+04	3.4181E-01	1.5025E+24	4.5439E+17

DW Transport Group Inventory:

Time (h) =	0.2200	Atmosphere	Sump
Noble gases (atoms)	1.4061E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.9615E-01	0.0000E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.7521E-04
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.7806E-04
Total I (Ci)			1.9360E+07

DW to WW Transport Group Inventory:

Time (h) = 0.2200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2200	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5681E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4597E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.2200	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.8147E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5550E-06	5.7368E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.2200	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.3056E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7721E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.2200	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.3056E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7721E-06

EAB Doses:

Time (h) =	0.2300	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.5272E-08	1.1829E-05	4.3819E-07
Accumulated dose (rem)		3.4475E-07	7.2914E-05	2.7056E-06

LPZ Doses:

Time (h) =	0.2300	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.5245E-09	1.6103E-06	5.9652E-08
Accumulated dose (rem)		4.6933E-08	9.9261E-06	3.6832E-07

CR Doses:

Time (h) =	0.2300	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1290E-10	3.3773E-07	1.1045E-08
Accumulated dose (rem)		5.6964E-10	1.7059E-06	5.5801E-08

DW Compartment Nuclide Inventory:

Time (h) =	0.2300	Ci	kg	Atoms	Decay
Rb-86		4.0023E+02	4.9188E-06	3.4444E+19	6.3847E+15
Rb-88		1.2263E+05	1.0158E-06	6.9517E+18	2.1533E+18
I-131		2.4143E+06	1.9474E-02	8.9524E+22	3.8520E+19
I-132		3.3909E+06	3.2851E-04	1.4987E+21	5.4781E+19
I-133		4.9717E+06	4.3888E-03	1.9872E+22	7.9509E+19
I-134		4.7916E+06	1.7962E-04	8.0723E+20	8.1376E+19
I-135		4.6218E+06	1.3160E-03	5.8707E+21	7.4328E+19
Xe-133		3.1866E+03	1.7024E-05	7.7084E+19	3.1110E+16
Xe-133m		2.2395E+02	5.0868E-07	2.3033E+18	2.1866E+15
Xe-135		3.7049E+04	1.4508E-05	6.4716E+19	3.6039E+17
Xe-135m		1.8835E+05	2.0690E-06	9.2295E+18	1.9183E+18
Cs-134		4.0037E+04	3.0944E-02	1.3907E+23	6.3861E+17
Cs-136		1.2210E+04	1.6659E-04	7.3767E+20	1.9478E+17
Cs-137		3.1083E+04	3.5735E-01	1.5708E+24	4.9579E+17

DW Transport Group Inventory:

Time (h) =	0.2300	Atmosphere	Sump
Noble gases (atoms)		1.5333E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		4.1415E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			3.9220E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.9959E-04
Total I (Ci)			2.0190E+07

DW to WW Transport Group Inventory:

Time (h) =	0.2300	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.2300	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.2300
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 1.6438E+16
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 1.4815E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.2300	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5016E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6996E-06	6.2702E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.2300	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4918E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3088E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.2300	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4918E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3088E-06

EAB Doses:

Time (h) =	0.2400	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.2731E-08	1.3463E-05	4.9853E-07
Accumulated dose (rem)		4.0748E-07	8.6377E-05	3.2041E-06

LPZ Doses:

Time (h) =	0.2400	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.5398E-09	1.8328E-06	6.7867E-08
Accumulated dose (rem)		5.5472E-08	1.1759E-05	4.3619E-07

CR Doses:

Time (h) =	0.2400	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3412E-10	4.0117E-07	1.3120E-08
Accumulated dose (rem)		7.0377E-10	2.1071E-06	6.8920E-08

DW Compartment Nuclide Inventory:

Time (h) =	0.2400	Ci	kg	Atoms	Decay
Rb-86		4.1763E+02	5.1326E-06	3.5941E+19	6.9409E+15
Rb-88		1.2655E+05	1.0483E-06	7.1740E+18	2.3239E+18
I-131		2.5192E+06	2.0320E-02	9.3414E+22	4.1875E+19
I-132		3.5329E+06	3.4227E-04	1.5615E+21	5.9494E+19
I-133		5.1862E+06	4.5782E-03	2.0730E+22	8.6418E+19
I-134		4.9606E+06	1.8595E-04	8.3570E+20	8.8010E+19
I-135		4.8177E+06	1.3718E-03	6.1195E+21	8.0748E+19
Xe-133		3.4635E+03	1.8503E-05	8.3782E+19	3.5354E+16
Xe-133m		2.4340E+02	5.5286E-07	2.5033E+18	2.4849E+15
Xe-135		4.0285E+04	1.5775E-05	7.0370E+19	4.0972E+17
Xe-135m		2.0295E+05	2.2294E-06	9.9450E+18	2.1658E+18
Cs-134		4.1778E+04	3.2290E-02	1.4512E+23	6.9426E+17
Cs-136		1.2740E+04	1.7383E-04	7.6973E+20	2.1175E+17
Cs-137		3.2435E+04	3.7289E-01	1.6391E+24	5.3900E+17

DW Transport Group Inventory:

Time (h) =	0.2400	Atmosphere	Sump
Noble gases (atoms)		1.6660E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		4.3216E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			4.0919E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.2110E-04
Total I (Ci)			2.1017E+07

DW to WW Transport Group Inventory:

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Time (h) = 0.2400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7265E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5043E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.2400	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.2507E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.8506E-06	6.8273E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.2400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6949E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.8694E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.2400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6949E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.8694E-06

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.2500		
Delta dose (rem)	7.0809E-08	1.5240E-05	5.6411E-07
Accumulated dose (rem)	4.7829E-07	1.0162E-04	3.7682E-06

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.2500		
Delta dose (rem)	9.6396E-09	2.0747E-06	7.6795E-08
Accumulated dose (rem)	6.5112E-08	1.3834E-05	5.1299E-07

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.2500		
Delta dose (rem)	1.5817E-10	4.7310E-07	1.5471E-08
Accumulated dose (rem)	8.6194E-10	2.5802E-06	8.4391E-08

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.2500			
Rb-86	4.3502E+02	5.3464E-06	3.7438E+19	7.5204E+15
Rb-88	1.3037E+05	1.0800E-06	7.3908E+18	2.4996E+18

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I-131	2.6241E+06	2.1166E-02	9.7303E+22	4.5371E+19
I-132	3.6746E+06	3.5599E-04	1.6241E+21	6.4396E+19
I-133	5.4005E+06	4.7674E-03	2.1586E+22	9.3612E+19
I-134	5.1266E+06	1.9218E-04	8.6367E+20	9.4865E+19
I-135	5.0132E+06	1.4275E-03	6.3679E+21	8.7429E+19
Xe-133	3.7518E+03	2.0044E-05	9.0756E+19	3.9968E+16
Xe-133m	2.6365E+02	5.9886E-07	2.7116E+18	2.8091E+15
Xe-135	4.3657E+04	1.7095E-05	7.6260E+19	4.6336E+17
Xe-135m	2.1796E+05	2.3943E-06	1.0680E+19	2.4325E+18
Cs-134	4.3519E+04	3.3636E-02	1.5116E+23	7.5223E+17
Cs-136	1.3271E+04	1.8107E-04	8.0179E+20	2.2943E+17
Cs-137	3.3786E+04	3.8843E-01	1.7074E+24	5.8400E+17

DW Transport Group Inventory:

Time (h) =	0.2500	Atmosphere	Sump
Noble gases (atoms)	1.8041E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5016E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.2617E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.4260E-04
Total I (Ci)			2.1839E+07

DW to WW Transport Group Inventory:

Time (h) = 0.2500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8162E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5281E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.0645E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.0080E-06	7.4081E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9156E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	7.4537E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9156E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	7.4537E-06

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EAB Doses:

Time (h) =	0.2600	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.9530E-08	1.7166E-05	6.3514E-07	
Accumulated dose (rem)	5.5782E-07	1.1878E-04	4.4034E-06	

LPZ Doses:

Time (h) =	0.2600	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0827E-08	2.3369E-06	8.6465E-08	
Accumulated dose (rem)	7.5939E-08	1.6171E-05	5.9945E-07	

CR Doses:

Time (h) =	0.2600	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8529E-10	5.5423E-07	1.8124E-08	
Accumulated dose (rem)	1.0472E-09	3.1344E-06	1.0251E-07	

DW Compartment Nuclide Inventory:

Time (h) =	0.2600	Ci	kg	Atoms	Decay
Rb-86		4.5242E+02	5.5602E-06	3.8935E+19	8.1230E+15
Rb-88		1.3410E+05	1.1109E-06	7.6022E+18	2.6803E+18
I-131		2.7290E+06	2.2013E-02	1.0119E+23	4.9006E+19
I-132		3.8157E+06	3.6966E-04	1.6865E+21	6.9487E+19
I-133		5.6147E+06	4.9564E-03	2.2442E+22	1.0109E+20
I-134		5.2897E+06	1.9829E-04	8.9114E+20	1.0194E+20
I-135		5.2083E+06	1.4831E-03	6.6157E+21	9.4370E+19
Xe-133		4.0515E+03	2.1645E-05	9.8006E+19	4.4965E+16
Xe-133m		2.8471E+02	6.4669E-07	2.9282E+18	3.1602E+15
Xe-135		4.7164E+04	1.8469E-05	8.2386E+19	5.2149E+17
Xe-135m		2.3336E+05	2.5634E-06	1.1435E+19	2.7189E+18
Cs-134		4.5260E+04	3.4981E-02	1.5721E+23	8.1251E+17
Cs-136		1.3802E+04	1.8831E-04	8.3385E+20	2.4782E+17
Cs-137		3.5138E+04	4.0397E-01	1.7757E+24	6.3080E+17

DW Transport Group Inventory:

Time (h) =	0.2600	Atmosphere	Sump
Noble gases (atoms)	1.9475E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.6817E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)		4.4315E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.6408E-04	
Total I (Ci)		2.2657E+07	

DW to WW Transport Group Inventory:

Time (h) = 0.2600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2600	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9135E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5528E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.9458E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.1719E-06	8.0126E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1546E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.0620E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1546E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.0620E-06

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8913E-08	1.9246E-05	7.1182E-07
Accumulated dose (rem)	6.4673E-07	1.3803E-04	5.1152E-06

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2104E-08	2.6201E-06	9.6903E-08
Accumulated dose (rem)	8.8043E-08	1.8791E-05	6.9636E-07

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1572E-10	6.4532E-07	2.1101E-08
Accumulated dose (rem)	1.2629E-09	3.7797E-06	1.2362E-07

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	4.6982E+02	5.7740E-06	4.0432E+19	8.7488E+15
Rb-88	1.3774E+05	1.1410E-06	7.8083E+18	2.8660E+18
I-131	2.8339E+06	2.2859E-02	1.0508E+23	5.2781E+19
I-132	3.9565E+06	3.8330E-04	1.7487E+21	7.4765E+19
I-133	5.8287E+06	5.1454E-03	2.3298E+22	1.0886E+20
I-134	5.4500E+06	2.0430E-04	9.1814E+20	1.0923E+20
I-135	5.4030E+06	1.5385E-03	6.8630E+21	1.0157E+20
Xe-133	4.3626E+03	2.3307E-05	1.0553E+20	5.0361E+16
Xe-133m	3.0656E+02	6.9633E-07	3.1529E+18	3.5394E+15
Xe-135	5.0806E+04	1.9895E-05	8.8747E+19	5.8429E+17
Xe-135m	2.4914E+05	2.7368E-06	1.2208E+19	3.0255E+18
Cs-134	4.7001E+04	3.6327E-02	1.6326E+23	8.7512E+17
Cs-136	1.4332E+04	1.9555E-04	8.6591E+20	2.6691E+17
Cs-137	3.6490E+04	4.1951E-01	1.8440E+24	6.7941E+17

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	2.0964E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.8617E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.6012E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.8554E-04
Total I (Ci)			2.3472E+07

DW to WW Transport Group Inventory:

Time (h) = 0.2700 Leakage Transport

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Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
 Time (h) = 0.2700 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0184E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5785E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.2700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.8972E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.3422E-06	8.6408E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.2700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4125E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.6940E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.2700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4125E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	8.6940E-06

EAB Doses:

Time (h) =	0.2800	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.8980E-08	2.1487E-05	7.9436E-07
Accumulated dose (rem)		7.4572E-07	1.5952E-04	5.9096E-06

LPZ Doses:

Time (h) =	0.2800	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3475E-08	2.9251E-06	1.0814E-07
Accumulated dose (rem)		1.0152E-07	2.1716E-05	8.0449E-07

CR Doses:

Time (h) =	0.2800	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.4970E-10	7.4711E-07	2.4428E-08
Accumulated dose (rem)		1.5127E-09	4.5268E-06	1.4804E-07

DW Compartment Nuclide Inventory:

Time (h) =	0.2800	Ci	kg	Atoms	Decay
Rb-86		4.8721E+02	5.9878E-06	4.1929E+19	9.3978E+15
Rb-88		1.4128E+05	1.1704E-06	8.0092E+18	3.0564E+18
I-131		2.9388E+06	2.3704E-02	1.0897E+23	5.6695E+19
I-132		4.0968E+06	3.9689E-04	1.8107E+21	8.0230E+19

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I-133	6.0426E+06	5.3342E-03	2.4153E+22	1.1691E+20
I-134	5.6073E+06	2.1020E-04	9.4465E+20	1.1673E+20
I-135	5.5972E+06	1.5938E-03	7.1097E+21	1.0903E+20
Xe-133	4.6852E+03	2.5030E-05	1.1333E+20	5.6172E+16
Xe-133m	3.2922E+02	7.4780E-07	3.3860E+18	3.9478E+15
Xe-135	5.4583E+04	2.1374E-05	9.5345E+19	6.5193E+17
Xe-135m	2.6529E+05	2.9142E-06	1.3000E+19	3.3529E+18
Cs-134	4.8742E+04	3.7672E-02	1.6930E+23	9.4004E+17
Cs-136	1.4863E+04	2.0279E-04	8.9796E+20	2.8670E+17
Cs-137	3.7841E+04	4.3505E-01	1.9124E+24	7.2981E+17

DW Transport Group Inventory:

Time (h) =	0.2800	Atmosphere	Sump
Noble gases (atoms)	2.2507E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	5.0417E-01	0.0000E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.7708E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.0699E-04
Total I (Ci)			2.4283E+07

DW to WW Transport Group Inventory:

Time (h) = 0.2800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.2800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2800	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.1314E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6052E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.2800	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.9213E+14
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.5189E-06	9.2927E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.2800	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6902E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	9.3499E-06

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.2800	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6902E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	9.3499E-06

EAB Doses:

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Time (h) =	0.2900	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0975E-07	2.3893E-05	8.8296E-07
Accumulated dose (rem)		8.5547E-07	1.8341E-04	6.7925E-06

LPZ Doses:

Time (h) =	0.2900	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4941E-08	3.2526E-06	1.2020E-07
Accumulated dose (rem)		1.1646E-07	2.4968E-05	9.2470E-07

CR Doses:

Time (h) =	0.2900	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.8750E-10	8.6041E-07	2.8131E-08
Accumulated dose (rem)		1.8002E-09	5.3872E-06	1.7618E-07

DW Compartment Nuclide Inventory:

Time (h) =	0.2900	Ci	kg	Atoms	Decay
Rb-86		5.0461E+02	6.2016E-06	4.3426E+19	1.0070E+16
Rb-88		1.4474E+05	1.1990E-06	8.2050E+18	3.2514E+18
I-131		3.0436E+06	2.4550E-02	1.1286E+23	6.0749E+19
I-132		4.2366E+06	4.1044E-04	1.8725E+21	8.5881E+19
I-133		6.2564E+06	5.5229E-03	2.5007E+22	1.2524E+20
I-134		5.7619E+06	2.1599E-04	9.7068E+20	1.2443E+20
I-135		5.7911E+06	1.6490E-03	7.3560E+21	1.1675E+20
Xe-133		5.0191E+03	2.6814E-05	1.2141E+20	6.2413E+16
Xe-133m		3.5268E+02	8.0108E-07	3.6272E+18	4.3862E+15
Xe-135		5.8495E+04	2.2906E-05	1.0218E+20	7.2461E+17
Xe-135m		2.8180E+05	3.0956E-06	1.3809E+19	3.7015E+18
Cs-134		5.0483E+04	3.9018E-02	1.7535E+23	1.0073E+18
Cs-136		1.5393E+04	2.1003E-04	9.3001E+20	3.0721E+17
Cs-137		3.9193E+04	4.5059E-01	1.9807E+24	7.8202E+17

DW Transport Group Inventory:

Time (h) =	0.2900	Atmosphere	Sump
Noble gases (atoms)		2.4103E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		5.2217E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			4.9404E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.2842E-04
Total I (Ci)			2.5090E+07

DW to WW Transport Group Inventory:

Time (h) =	0.2900	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.2900	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.2900	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.2526E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6329E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.2900	Filtered Transported

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Noble gases (atoms)	0.0000E+00	1.1021E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.7020E-06	9.9683E-07

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.2900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9884E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.0030E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.2900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9884E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.0030E-05

EAB Doses:

Time (h) = 0.3000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2125E-07	2.6470E-05	9.7783E-07
Accumulated dose (rem)	9.7671E-07	2.0988E-04	7.7704E-06

LPZ Doses:

Time (h) = 0.3000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6506E-08	3.6035E-06	1.3312E-07
Accumulated dose (rem)	1.3296E-07	2.8572E-05	1.0578E-06

CR Doses:

Time (h) = 0.3000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2939E-10	9.8603E-07	3.2237E-08
Accumulated dose (rem)	2.1295E-09	6.3732E-06	2.0841E-07

DW Compartment Nuclide Inventory:

Time (h) = 0.3000	Ci	kg	Atoms	Decay
Rb-86	5.2200E+02	6.4153E-06	4.4923E+19	1.0765E+16
Rb-88	1.4810E+05	1.2269E-06	8.3958E+18	3.4511E+18
I-131	3.1485E+06	2.5396E-02	1.1675E+23	6.4943E+19
I-132	4.3761E+06	4.2395E-04	1.9342E+21	9.1719E+19
I-133	6.4700E+06	5.7114E-03	2.5861E+22	1.3386E+20
I-134	5.9136E+06	2.2168E-04	9.9625E+20	1.3234E+20
I-135	5.9845E+06	1.7041E-03	7.6017E+21	1.2472E+20
Xe-133	5.3645E+03	2.8659E-05	1.2977E+20	6.9098E+16
Xe-133m	3.7693E+02	8.5617E-07	3.8767E+18	4.8560E+15
Xe-135	6.2541E+04	2.4490E-05	1.0925E+20	8.0249E+17
Xe-135m	2.9865E+05	3.2807E-06	1.4635E+19	4.0718E+18
Cs-134	5.2224E+04	4.0364E-02	1.8140E+23	1.0768E+18
Cs-136	1.5924E+04	2.1727E-04	9.6207E+20	3.2842E+17
Cs-137	4.0545E+04	4.6613E-01	2.0490E+24	8.3602E+17

DW Transport Group Inventory:

Time (h) = 0.3000	Atmosphere	Sump
Noble gases (atoms)	2.5752E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.4017E-01	0.0000E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.1099E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.4983E-04
Total I (Ci)		2.5893E+07

DW to WW Transport Group Inventory:

Time (h) = 0.3000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
 Time (h) = 0.3000 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3825E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6615E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2198E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	2.8915E-06	1.0668E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3076E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.0733E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3076E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.0733E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3348E-07	2.9224E-05	1.0791E-06
Accumulated dose (rem)	1.1102E-06	2.3910E-04	8.8495E-06

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8171E-08	3.9783E-06	1.4690E-07
Accumulated dose (rem)	1.5113E-07	3.2550E-05	1.2047E-06

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7563E-10	1.1248E-06	3.6772E-08
Accumulated dose (rem)	2.5052E-09	7.4981E-06	2.4518E-07

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	4.4401E+02	5.4569E-06	3.8212E+19	1.1357E+16
Rb-88	1.2477E+05	1.0336E-06	7.0733E+18	3.6192E+18
I-131	2.6781E+06	2.1602E-02	9.9304E+22	6.8510E+19
I-132	3.7173E+06	3.6012E-04	1.6430E+21	9.6678E+19
I-133	5.5016E+06	4.8566E-03	2.1990E+22	1.4119E+20
I-134	4.9906E+06	1.8708E-04	8.4075E+20	1.3901E+20

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I-135	5.0852E+06	1.4480E-03	6.4593E+21	1.3150E+20
Xe-133	5.6580E+03	3.0228E-05	1.3687E+20	7.6243E+16
Xe-133m	3.9755E+02	9.0299E-07	4.0887E+18	5.3580E+15
Xe-135	6.6014E+04	2.5850E-05	1.1531E+20	8.8577E+17
Xe-135m	3.1139E+05	3.4206E-06	1.5259E+19	4.4643E+18
Cs-134	4.4422E+04	3.4334E-02	1.5430E+23	1.1360E+18
Cs-136	1.3545E+04	1.8481E-04	8.1833E+20	3.4646E+17
Cs-137	3.4488E+04	3.9649E-01	1.7429E+24	8.8196E+17

DW Transport Group Inventory:

Time (h) =	0.3100	Atmosphere	Sump
Noble gases (atoms)	2.7153E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5947E-01	9.8693E-02	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.3459E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.5254E-04
Total I (Ci)			2.1973E+07

DW to WW Transport Group Inventory:

Time (h) = 0.3100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5213E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6884E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3456E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.0694E-06	1.1324E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6488E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1394E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6488E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1394E-05

EAB Doses:

Time (h) = 0.3200 Whole Body Thyroid TEDE

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Delta dose (rem)	1.4638E-07	3.2141E-05	1.1864E-06
Accumulated dose (rem)	1.2566E-06	2.7124E-04	1.0036E-05

LPZ Doses:

Time (h) =	0.3200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9928E-08	4.3754E-06	1.6150E-07	
Accumulated dose (rem)	1.7106E-07	3.6926E-05	1.3662E-06	

CR Doses:

Time (h) =	0.3200	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2649E-10	1.2776E-06	4.1765E-08	
Accumulated dose (rem)	2.9317E-09	8.7757E-06	2.8695E-07	

DW Compartment Nuclide Inventory:

Time (h) =	0.3200	Ci	kg	Atoms	Decay
Rb-86		3.8004E+02	4.6706E-06	3.2706E+19	1.1863E+16
Rb-88		1.0607E+05	8.7869E-07	6.0132E+18	3.7622E+18
I-131		2.2921E+06	1.8489E-02	8.4994E+22	7.1564E+19
I-132		3.1784E+06	3.0792E-04	1.4048E+21	1.0092E+20
I-133		4.7074E+06	4.1555E-03	1.8816E+22	1.4746E+20
I-134		4.2380E+06	1.5886E-04	7.1395E+20	1.4468E+20
I-135		4.3480E+06	1.2381E-03	5.5229E+21	1.3730E+20
Xe-133		5.9092E+03	3.1569E-05	1.4294E+20	8.3779E+16
Xe-133m		4.1518E+02	9.4304E-07	4.2700E+18	5.8875E+15
Xe-135		6.9016E+04	2.7025E-05	1.2056E+20	9.7366E+17
Xe-135m		3.2077E+05	3.5237E-06	1.5719E+19	4.8734E+18
Cs-134		3.8022E+04	2.9387E-02	1.3207E+23	1.1867E+18
Cs-136		1.1593E+04	1.5818E-04	7.0041E+20	3.6190E+17
Cs-137		2.9519E+04	3.3937E-01	1.4918E+24	9.2128E+17

DW Transport Group Inventory:

Time (h) =	0.3200	Atmosphere	Sump
Noble gases (atoms)	2.8349E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.9327E-01	1.8289E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.7191E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.7275E-04
Total I (Ci)			1.8764E+07

DW to WW Transport Group Inventory:

Time (h) = 0.3200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.3200	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6676E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7113E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.3200	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4783E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.2212E-06	1.1884E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.3200	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0084E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1957E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.3200	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0084E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.1957E-05

EAB Doses:

Time (h) = 0.3300	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5986E-07	3.5197E-05	1.2987E-06
Accumulated dose (rem)	1.4164E-06	3.0644E-04	1.1334E-05

LPZ Doses:

Time (h) = 0.3300	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1762E-08	4.7915E-06	1.7679E-07
Accumulated dose (rem)	1.9282E-07	4.1717E-05	1.5430E-06

CR Doses:

Time (h) = 0.3300	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8220E-10	1.4451E-06	4.7238E-08
Accumulated dose (rem)	3.4139E-09	1.0221E-05	3.3419E-07

DW Compartment Nuclide Inventory:

Time (h) = 0.3300	Ci	kg	Atoms	Decay
Rb-86	3.2755E+02	4.0256E-06	2.8189E+19	1.2299E+16
Rb-88	9.1080E+04	7.5449E-07	5.1633E+18	3.8849E+18
I-131	1.9756E+06	1.5935E-02	7.3255E+22	7.4195E+19
I-132	2.7377E+06	2.6522E-04	1.2100E+21	1.0457E+20
I-133	4.0560E+06	3.5805E-03	1.6212E+22	1.5287E+20
I-134	3.6240E+06	1.3585E-04	6.1052E+20	1.4953E+20
I-135	3.7437E+06	1.0660E-03	4.7553E+21	1.4228E+20
Xe-133	6.1255E+03	3.2725E-05	1.4818E+20	9.1650E+16
Xe-133m	4.3035E+02	9.7751E-07	4.4261E+18	6.4405E+15
Xe-135	7.1630E+04	2.8049E-05	1.2512E+20	1.0656E+18
Xe-135m	3.2744E+05	3.5969E-06	1.6045E+19	5.2949E+18
Cs-134	3.2772E+04	2.5329E-02	1.1383E+23	1.2303E+18
Cs-136	9.9919E+03	1.3633E-04	6.0368E+20	3.7521E+17
Cs-137	2.5443E+04	2.9251E-01	1.2858E+24	9.5517E+17

DW Transport Group Inventory:

Time (h) = 0.3300	Atmosphere	Sump
Noble gases (atoms)	2.9377E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3896E-01	2.5520E-01
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2051E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.0732E-04
Total I (Ci)		1.6137E+07

DW to WW Transport Group Inventory:

Time (h) = 0.3300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

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WW to DW Transport Group Inventory:

Time (h) = 0.3300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.3300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8204E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7310E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.3300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6167E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3515E-06	1.2364E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.3300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3839E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2441E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.3300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3839E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2441E-05

EAB Doses:

Time (h) = 0.3400	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7379E-07	3.8370E-05	1.4152E-06
Accumulated dose (rem)	1.5902E-06	3.4481E-04	1.2750E-05

LPZ Doses:

Time (h) = 0.3400	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3659E-08	5.2235E-06	1.9266E-07
Accumulated dose (rem)	2.1648E-07	4.6941E-05	1.7357E-06

CR Doses:

Time (h) = 0.3400	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4297E-10	1.6279E-06	5.3210E-08
Accumulated dose (rem)	3.9568E-09	1.1849E-05	3.8740E-07

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	2.8450E+02	3.4965E-06	2.4484E+19	1.2678E+16
Rb-88	7.9059E+04	6.5491E-07	4.4818E+18	3.9915E+18
I-131	1.7159E+06	1.3840E-02	6.3625E+22	7.6481E+19
I-132	2.3772E+06	2.3030E-04	1.0507E+21	1.0774E+20
I-133	3.5218E+06	3.1089E-03	1.4077E+22	1.5756E+20
I-134	3.1229E+06	1.1706E-04	5.2610E+20	1.5370E+20
I-135	3.2482E+06	9.2493E-04	4.1260E+21	1.4661E+20
Xe-133	6.3133E+03	3.3728E-05	1.5272E+20	9.9809E+16

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Xe-133m	4.4352E+02	1.0074E-06	4.5616E+18	7.0137E+15
Xe-135	7.3926E+04	2.8948E-05	1.2913E+20	1.1609E+18
Xe-135m	3.3191E+05	3.6460E-06	1.6264E+19	5.7252E+18
Cs-134	2.8465E+04	2.2000E-02	9.8872E+22	1.2682E+18
Cs-136	8.6785E+03	1.1841E-04	5.2433E+20	3.8677E+17
Cs-137	2.2099E+04	2.5406E-01	1.1168E+24	9.8461E+17

DW Transport Group Inventory:

Time (h) =	0.3400	Atmosphere	Sump
Noble gases (atoms)	3.0268E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	2.9441E-01	3.1775E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.7834E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.5366E-04
Total I (Ci)			1.3986E+07

DW to WW Transport Group Inventory:

Time (h) =	0.3400	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.3400	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.3400	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9787E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7480E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.3400	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7602E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4642E-06	1.2780E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.3400	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7731E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2859E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.3400	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7731E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.2859E-05

EAB Doses:

Time (h) =	0.3500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8810E-07	4.1643E-05	1.5353E-06	
Accumulated dose (rem)	1.7783E-06	3.8645E-04	1.4285E-05	

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LPZ Doses:

Time (h) =	0.3500	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.5607E-08	5.6690E-06	2.0901E-07
Accumulated dose (rem)		2.4209E-07	5.2610E-05	1.9447E-06

CR Doses:

Time (h) =	0.3500	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.0895E-10	1.8265E-06	5.9699E-08
Accumulated dose (rem)		4.5658E-09	1.3675E-05	4.4710E-07

DW Compartment Nuclide Inventory:

Time (h) =	0.3500	Ci	kg	Atoms	Decay
Rb-86		2.4918E+02	3.0624E-06	2.1444E+19	1.3010E+16
Rb-88		6.9418E+04	5.7505E-07	3.9353E+18	4.0851E+18
I-131		1.5028E+06	1.2122E-02	5.5725E+22	7.8482E+19
I-132		2.0823E+06	2.0173E-04	9.2035E+20	1.1052E+20
I-133		3.0836E+06	2.7221E-03	1.2325E+22	1.6167E+20
I-134		2.7137E+06	1.0173E-04	4.5717E+20	1.5733E+20
I-135		2.8420E+06	8.0927E-04	3.6100E+21	1.5040E+20
Xe-133		6.4776E+03	3.4606E-05	1.5669E+20	1.0822E+17
Xe-133m		4.5505E+02	1.0336E-06	4.6801E+18	7.6044E+15
Xe-135		7.5960E+04	2.9745E-05	1.3269E+20	1.2594E+18
Xe-135m		3.3460E+05	3.6756E-06	1.6396E+19	6.1613E+18
Cs-134		2.4931E+04	1.9269E-02	8.6598E+22	1.3014E+18
Cs-136		7.6010E+03	1.0371E-04	4.5923E+20	3.9689E+17
Cs-137		1.9356E+04	2.2253E-01	9.7816E+23	1.0104E+18

DW Transport Group Inventory:

Time (h) =	0.3500	Atmosphere	Sump
Noble gases (atoms)		3.1046E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		2.5786E-01	3.7231E-01
Dose Effective (Ci/cc) I-131 (Thyroid)			2.4375E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.0965E-04
Total I (Ci)			1.2224E+07

DW to WW Transport Group Inventory:

Time (h) =	0.3500	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.3500	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.3500	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1418E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7628E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.3500	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.9081E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5625E-06	1.3143E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.3500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1740E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3224E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.3500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1740E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3224E-05

EAB Doses:

Time (h) =	0.3600	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0272E-07	4.5001E-05	1.6585E-06
Accumulated dose (rem)		1.9810E-06	4.3145E-04	1.5944E-05

LPZ Doses:

Time (h) =	0.3600	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7598E-08	6.1261E-06	2.2578E-07
Accumulated dose (rem)		2.6969E-07	5.8736E-05	2.1705E-06

CR Doses:

Time (h) =	0.3600	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.8030E-10	2.0413E-06	6.6717E-08
Accumulated dose (rem)		5.2461E-09	1.5716E-05	5.1381E-07

DW Compartment Nuclide Inventory:

Time (h) =	0.3600	Ci	kg	Atoms	Decay
Rb-86		2.2020E+02	2.7063E-06	1.8951E+19	1.3303E+16
Rb-88		6.1686E+04	5.1099E-07	3.4969E+18	4.1682E+18
I-131		1.3280E+06	1.0712E-02	4.9245E+22	8.0251E+19
I-132		1.8412E+06	1.7837E-04	8.1376E+20	1.1298E+20
I-133		2.7241E+06	2.4048E-03	1.0889E+22	1.6530E+20
I-134		2.3793E+06	8.9190E-05	4.0083E+20	1.6051E+20
I-135		2.5090E+06	7.1442E-04	3.1869E+21	1.5374E+20
Xe-133		6.6228E+03	3.5381E-05	1.6020E+20	1.1685E+17
Xe-133m		4.6522E+02	1.0567E-06	4.7847E+18	8.2105E+15
Xe-135		7.7779E+04	3.0457E-05	1.3586E+20	1.3605E+18
Xe-135m		3.3586E+05	3.6894E-06	1.6458E+19	6.6010E+18
Cs-134		2.2032E+04	1.7029E-02	7.6530E+22	1.3308E+18
Cs-136		6.7171E+03	9.1650E-05	4.0583E+20	4.0584E+17
Cs-137		1.7105E+04	1.9665E-01	8.6443E+23	1.0332E+18

DW Transport Group Inventory:

Time (h) =	0.3600	Atmosphere	Sump	
Noble gases (atoms)		3.1731E+20	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		2.2788E-01	4.2029E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)				2.1538E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				2.7356E-04
Total I (Ci)				1.0782E+07

DW to WW Transport Group Inventory:

Time (h) = 0.3600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

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Time (h) = 0.3600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.3600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3091E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7759E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.3600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0598E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6490E-06	1.3462E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.3600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5852E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3545E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.3600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5852E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3545E-05

EAB Doses:

Time (h) = 0.3700	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1760E-07	4.8431E-05	1.7843E-06
Accumulated dose (rem)	2.1986E-06	4.7989E-04	1.7728E-05

LPZ Doses:

Time (h) = 0.3700	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9623E-08	6.5932E-06	2.4291E-07
Accumulated dose (rem)	2.9931E-07	6.5329E-05	2.4134E-06

CR Doses:

Time (h) = 0.3700	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.5711E-10	2.2727E-06	7.4276E-08
Accumulated dose (rem)	6.0032E-09	1.7989E-05	5.8809E-07

DW Compartment Nuclide Inventory:

Time (h) = 0.3700	Ci	kg	Atoms	Decay
Rb-86	1.9643E+02	2.4142E-06	1.6905E+19	1.3565E+16
Rb-88	5.5481E+04	4.5960E-07	3.1452E+18	4.2430E+18
I-131	1.1847E+06	9.5558E-03	4.3928E+22	8.1829E+19
I-132	1.6439E+06	1.5926E-04	7.2658E+20	1.1517E+20
I-133	2.4293E+06	2.1445E-03	9.7101E+21	1.6853E+20
I-134	2.1058E+06	7.8937E-05	3.5475E+20	1.6333E+20
I-135	2.2358E+06	6.3665E-04	2.8400E+21	1.5672E+20
Xe-133	6.7521E+03	3.6073E-05	1.6333E+20	1.2567E+17
Xe-133m	4.7428E+02	1.0773E-06	4.8779E+18	8.8301E+15
Xe-135	7.9420E+04	3.1100E-05	1.3873E+20	1.4641E+18

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Xe-135m	3.3597E+05	3.6906E-06	1.6463E+19	7.0424E+18
Cs-134	1.9654E+04	1.5191E-02	6.8270E+22	1.3570E+18
Cs-136	5.9920E+03	8.1756E-05	3.6202E+20	4.1382E+17
Cs-137	1.5259E+04	1.7543E-01	7.7113E+23	1.0535E+18

DW Transport Group Inventory:

Time (h) =	0.3700	Atmosphere	Sump	
Noble gases (atoms)	3.2341E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	2.0328E-01	4.6289E-01		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.9210E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.4395E-04	
Total I (Ci)			9.5995E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.3700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.3700	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.4801E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7875E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.3700	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.2148E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7258E-06	1.3745E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.3700	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.0056E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3830E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.3700	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.0056E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.3830E-05

EAB Doses:

Time (h) =	0.3800	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.3269E-07	5.1925E-05	1.9123E-06
Accumulated dose (rem)		2.4313E-06	5.3181E-04	1.9640E-05

LPZ Doses:

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Time (h) =	0.3800	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1678E-08	7.0688E-06	2.6033E-07
Accumulated dose (rem)		3.3099E-07	7.2398E-05	2.6737E-06

CR Doses:

Time (h) =	0.3800	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.3949E-10	2.5210E-06	8.2384E-08
Accumulated dose (rem)		6.8427E-09	2.0510E-05	6.7047E-07

DW Compartment Nuclide Inventory:

Time (h) =	0.3800	Ci	kg	Atoms	Decay
Rb-86		1.7693E+02	2.1745E-06	1.5227E+19	1.3801E+16
Rb-88		5.0502E+04	4.1835E-07	2.8629E+18	4.3110E+18
I-131		1.0671E+06	8.6071E-03	3.9567E+22	8.3251E+19
I-132		1.4825E+06	1.4363E-04	6.5526E+20	1.1715E+20
I-133		2.1875E+06	1.9310E-03	8.7434E+21	1.7145E+20
I-134		1.8818E+06	7.0542E-05	3.1702E+20	1.6585E+20
I-135		2.0118E+06	5.7285E-04	2.5554E+21	1.5941E+20
Xe-133		6.8686E+03	3.6695E-05	1.6615E+20	1.3466E+17
Xe-133m		4.8243E+02	1.0958E-06	4.9617E+18	9.4618E+15
Xe-135		8.0915E+04	3.1685E-05	1.4134E+20	1.5698E+18
Xe-135m		3.3516E+05	3.6818E-06	1.6424E+19	7.4838E+18
Cs-134		1.7704E+04	1.3683E-02	6.1493E+22	1.3805E+18
Cs-136		5.3971E+03	7.3639E-05	3.2608E+20	4.2101E+17
Cs-137		1.3744E+04	1.5802E-01	6.9459E+23	1.0718E+18

DW Transport Group Inventory:

Time (h) =	0.3800	Atmosphere	Sump
Noble gases (atoms)		3.2888E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.8310E-01	5.0108E-01
Dose Effective (Ci/cc) I-131 (Thyroid)			1.7301E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.1967E-04
Total I (Ci)			8.6307E+06

DW to WW Transport Group Inventory:

Time (h) = 0.3800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.3800
	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.6543E+16
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 1.7979E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.3800
	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.3728E+15
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	3.7946E-06 1.3999E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.4340E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4086E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.4340E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4086E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4796E-07	5.5473E-05	2.0423E-06
Accumulated dose (rem)	2.6793E-06	5.8728E-04	2.1682E-05

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3755E-08	7.5518E-06	2.7803E-07
Accumulated dose (rem)	3.6474E-07	7.9950E-05	2.9517E-06

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.2752E-10	2.7863E-06	9.1050E-08
Accumulated dose (rem)	7.7702E-09	2.3296E-05	7.6152E-07

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.6094E+02	1.9779E-06	1.3850E+19	1.4015E+16
Rb-88	4.6503E+04	3.8523E-07	2.6362E+18	4.3737E+18
I-131	9.7057E+05	7.8288E-03	3.5989E+22	8.4544E+19
I-132	1.3506E+06	1.3084E-04	5.9693E+20	1.1895E+20
I-133	1.9890E+06	1.7559E-03	7.9504E+21	1.7410E+20
I-134	1.6982E+06	6.3660E-05	2.8609E+20	1.6812E+20
I-135	1.8280E+06	5.2052E-04	2.3220E+21	1.6184E+20
Xe-133	6.9744E+03	3.7260E-05	1.6871E+20	1.4381E+17
Xe-133m	4.8984E+02	1.1126E-06	5.0378E+18	1.0104E+16
Xe-135	8.2288E+04	3.2223E-05	1.4374E+20	1.6775E+18
Xe-135m	3.3363E+05	3.6649E-06	1.6349E+19	7.9243E+18
Cs-134	1.6103E+04	1.2446E-02	5.5934E+22	1.4020E+18
Cs-136	4.9091E+03	6.6981E-05	2.9659E+20	4.2755E+17
Cs-137	1.2502E+04	1.4373E-01	6.3180E+23	1.0885E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	3.3384E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.6655E-01	5.3564E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.5735E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9975E-04
Total I (Ci)			7.8364E+06

DW to WW Transport Group Inventory:

Time (h) = 0.3900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.3900 Leakage Transport

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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.3900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8315E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8073E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.3900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5334E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8569E-06	1.4229E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.3900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8696E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4317E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.3900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8696E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4317E-05

EAB Doses:

Time (h) = 0.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6336E-07	5.9070E-05	2.1739E-06
Accumulated dose (rem)	2.9427E-06	6.4635E-04	2.3856E-05

LPZ Doses:

Time (h) = 0.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5852E-08	8.0414E-06	2.9595E-07
Accumulated dose (rem)	4.0060E-07	8.7991E-05	3.2477E-06

CR Doses:

Time (h) = 0.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0213E-09	3.0689E-06	1.0028E-07
Accumulated dose (rem)	8.7915E-09	2.6365E-05	8.6180E-07

DW Compartment Nuclide Inventory:

Time (h) = 0.4000	Ci	kg	Atoms	Decay
Rb-86	1.4781E+02	1.8166E-06	1.2721E+19	1.4212E+16
Rb-88	4.3291E+04	3.5861E-07	2.4541E+18	4.4321E+18
I-131	8.9142E+05	7.1903E-03	3.3054E+22	8.5731E+19
I-132	1.2426E+06	1.2038E-04	5.4922E+20	1.2061E+20
I-133	1.8263E+06	1.6122E-03	7.2997E+21	1.7653E+20
I-134	1.5475E+06	5.8009E-05	2.6070E+20	1.7019E+20
I-135	1.6772E+06	4.7758E-04	2.1304E+21	1.6408E+20
Xe-133	7.0716E+03	3.7779E-05	1.7106E+20	1.5310E+17
Xe-133m	4.9663E+02	1.1280E-06	5.1077E+18	1.0757E+16
Xe-135	8.3562E+04	3.2722E-05	1.4597E+20	1.7871E+18
Xe-135m	3.3152E+05	3.6418E-06	1.6245E+19	8.3627E+18
Cs-134	1.4790E+04	1.1431E-02	5.1374E+22	1.4217E+18

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Cs-136	4.5088E+03	6.1519E-05	2.7241E+20	4.3356E+17
Cs-137	1.1483E+04	1.3201E-01	5.8029E+23	1.1038E+18

DW Transport Group Inventory:

Time (h) =	0.4000	Atmosphere	Sump
Noble gases (atoms)	3.3838E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.5297E-01	5.6722E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4450E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.8341E-04
Total I (Ci)			7.1850E+06

DW to WW Transport Group Inventory:

Time (h) =	0.4000	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.4000	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.0114E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8159E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.6965E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9138E-06	1.4439E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3118E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4528E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.4000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3118E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4528E-05

EAB Doses:

Time (h) =	0.4100	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7888E-07	6.2709E-05	2.3071E-06	
Accumulated dose (rem)	3.2215E-06	7.0906E-04	2.6164E-05	

LPZ Doses:

Time (h) =	0.4100	Whole Body	Thyroid	TEDE
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Delta dose (rem)	3.7965E-08	8.5369E-06	3.1407E-07
Accumulated dose (rem)	4.3856E-07	9.6528E-05	3.5618E-06

CR Doses:

Time (h) =	0.4100	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1207E-09	3.3690E-06	1.1008E-07
Accumulated dose (rem)		9.9122E-09	2.9734E-05	9.7188E-07

DW Compartment Nuclide Inventory:

Time (h) =	0.4100	Ci	kg	Atoms	Decay
Rb-86		1.3705E+02	1.6843E-06	1.1794E+19	1.4395E+16
Rb-88		4.0708E+04	3.3722E-07	2.3077E+18	4.4869E+18
I-131		8.2648E+05	6.6665E-03	3.0646E+22	8.6832E+19
I-132		1.1543E+06	1.1183E-04	5.1019E+20	1.2215E+20
I-133		1.6927E+06	1.4943E-03	6.7659E+21	1.7878E+20
I-134		1.4235E+06	5.3361E-05	2.3981E+20	1.7209E+20
I-135		1.5534E+06	4.4234E-04	1.9732E+21	1.6615E+20
Xe-133		7.1616E+03	3.8260E-05	1.7324E+20	1.6252E+17
Xe-133m		5.0292E+02	1.1423E-06	5.1724E+18	1.1418E+16
Xe-135		8.4753E+04	3.3188E-05	1.4805E+20	1.8984E+18
Xe-135m		3.2897E+05	3.6137E-06	1.6120E+19	8.7983E+18
Cs-134		1.3713E+04	1.0599E-02	4.7633E+22	1.4400E+18
Cs-136		4.1803E+03	5.7038E-05	2.5256E+20	4.3913E+17
Cs-137		1.0646E+04	1.2240E-01	5.3803E+23	1.1179E+18

DW Transport Group Inventory:

Time (h) =	0.4100	Atmosphere	Sump
Noble gases (atoms)		3.4258E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.4183E-01	5.9637E-01
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3396E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7001E-04
Total I (Ci)			6.6504E+06

DW to WW Transport Group Inventory:

Time (h) =	0.4100	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.4100	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.4100
	Filtered Transported
Noble gases (atoms)	0.0000E+00 4.1938E+16
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 1.8238E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.4100
	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.8618E+15
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	3.9664E-06 1.4633E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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Time (h) =	0.4100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7600E+15	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	1.4723E-05	

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	0.4100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7600E+15	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	1.4723E-05	

EAB Doses:

Time (h) =	0.4200	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9449E-07	6.6387E-05	2.4415E-06	
Accumulated dose (rem)	3.5160E-06	7.7545E-04	2.8605E-05	

LPZ Doses:

Time (h) =	0.4200	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0090E-08	9.0375E-06	3.3238E-07	
Accumulated dose (rem)	4.7865E-07	1.0557E-04	3.8941E-06	

CR Doses:

Time (h) =	0.4200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2260E-09	3.6866E-06	1.2045E-07	
Accumulated dose (rem)	1.1138E-08	3.3421E-05	1.0923E-06	

DW Compartment Nuclide Inventory:

Time (h) =	0.4200	Ci	kg	Atoms	Decay
Rb-86	1.2821E+02	1.5758E-06	1.1034E+19	1.4565E+16	
Rb-88	3.8630E+04	3.2001E-07	2.1899E+18	4.5390E+18	
I-131	7.7321E+05	6.2368E-03	2.8671E+22	8.7862E+19	
I-132	1.0821E+06	1.0483E-04	4.7826E+20	1.2359E+20	
I-133	1.5831E+06	1.3975E-03	6.3279E+21	1.8089E+20	
I-134	1.3213E+06	4.9530E-05	2.2259E+20	1.7386E+20	
I-135	1.4518E+06	4.1341E-04	1.8441E+21	1.6808E+20	
Xe-133	7.2457E+03	3.8710E-05	1.7527E+20	1.7206E+17	
Xe-133m	5.0880E+02	1.1557E-06	5.2329E+18	1.2088E+16	
Xe-135	8.5875E+04	3.3627E-05	1.5001E+20	2.0112E+18	
Xe-135m	3.2607E+05	3.5818E-06	1.5978E+19	9.2306E+18	
Cs-134	1.2830E+04	9.9160E-03	4.4564E+22	1.4571E+18	
Cs-136	3.9109E+03	5.3361E-05	2.3629E+20	4.4433E+17	
Cs-137	9.9605E+03	1.1451E-01	5.0337E+23	1.1312E+18	

DW Transport Group Inventory:

Time (h) =	0.4200	Atmosphere	Sump	
Noble gases (atoms)	3.4649E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.3269E-01	6.2352E-01		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.2531E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.5901E-04	
Total I (Ci)			6.2115E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.4200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3784E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8312E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0291E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0153E-06	1.4813E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.2138E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4905E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.2138E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.4905E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1018E-07	7.0099E-05	2.5772E-06
Accumulated dose (rem)	3.8262E-06	8.4555E-04	3.1182E-05

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2226E-08	9.5429E-06	3.5084E-07
Accumulated dose (rem)	5.2088E-07	1.1511E-04	4.2450E-06

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3372E-09	4.0220E-06	1.3141E-07
Accumulated dose (rem)	1.2475E-08	3.7443E-05	1.2237E-06

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.2097E+02	1.4867E-06	1.0411E+19	1.4726E+16
Rb-88	3.6956E+04	3.0614E-07	2.0950E+18	4.5888E+18
I-131	7.2950E+05	5.8843E-03	2.7050E+22	8.8833E+19
I-132	1.0230E+06	9.9107E-05	4.5215E+20	1.2495E+20
I-133	1.4932E+06	1.3181E-03	5.9684E+21	1.8288E+20
I-134	1.2368E+06	4.6363E-05	2.0836E+20	1.7551E+20
I-135	1.3684E+06	3.8964E-04	1.7381E+21	1.6991E+20
Xe-133	7.3251E+03	3.9133E-05	1.7719E+20	1.8171E+17
Xe-133m	5.1433E+02	1.1683E-06	5.2898E+18	1.2766E+16
Xe-135	8.6940E+04	3.4044E-05	1.5187E+20	2.1256E+18
Xe-135m	3.2290E+05	3.5471E-06	1.5823E+19	9.6590E+18
Cs-134	1.2105E+04	9.3558E-03	4.2046E+22	1.4732E+18
Cs-136	3.6899E+03	5.0345E-05	2.2293E+20	4.4925E+17
Cs-137	9.3978E+03	1.0804E-01	4.7493E+23	1.1437E+18

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DW Transport Group Inventory:

Time (h) =	0.4300	Atmosphere	Sump
Noble gases (atoms)	3.5017E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2519E-01	6.4902E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1821E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.4998E-04
Total I (Ci)			5.8509E+06

DW to WW Transport Group Inventory:

Time (h) = 0.4300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.4300	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.5651E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8381E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.4300	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1984E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0613E-06	1.4983E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.4300	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.6728E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5075E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.4300	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.6728E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5075E-05

EAB Doses:

Time (h) =	0.4400	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2593E-07	7.3842E-05	2.7139E-06
Accumulated dose (rem)		4.1521E-06	9.1939E-04	3.3896E-05

LPZ Doses:

Time (h) =	0.4400	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.4370E-08	1.0052E-05	3.6945E-07
Accumulated dose (rem)		5.6525E-07	1.2516E-04	4.6144E-06

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CR Doses:

Time (h) =	0.4400	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4541E-09	4.3752E-06	1.4294E-07
Accumulated dose (rem)		1.3930E-08	4.1818E-05	1.3667E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.4400	Ci	kg	Atoms	Decay
Rb-86		1.1502E+02	1.4136E-06	9.8990E+18	1.4880E+16
Rb-88		3.5606E+04	2.9496E-07	2.0185E+18	4.6368E+18
I-131		6.9365E+05	5.5951E-03	2.5721E+22	8.9757E+19
I-132		9.7466E+05	9.4424E-05	4.3078E+20	1.2625E+20
I-133		1.4194E+06	1.2530E-03	5.6733E+21	1.8477E+20
I-134		1.1668E+06	4.3739E-05	1.9657E+20	1.7707E+20
I-135		1.2998E+06	3.7011E-04	1.6510E+21	1.7164E+20
Xe-133		7.4005E+03	3.9536E-05	1.7902E+20	1.9146E+17
Xe-133m		5.1960E+02	1.1802E-06	5.3439E+18	1.3451E+16
Xe-135		8.7958E+04	3.4443E-05	1.5364E+20	2.2413E+18
Xe-135m		3.1954E+05	3.5102E-06	1.5658E+19	1.0083E+19
Cs-134		1.1510E+04	8.8962E-03	3.9981E+22	1.4885E+18
Cs-136		3.5085E+03	4.7871E-05	2.1198E+20	4.5392E+17
Cs-137		8.9361E+03	1.0274E-01	4.5160E+23	1.1556E+18

DW Transport Group Inventory:

Time (h) =	0.4400	Atmosphere	Sump
Noble gases (atoms)		3.5366E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.1904E-01	6.7318E-01
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1239E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.4258E-04
Total I (Ci)			5.5542E+06

DW to WW Transport Group Inventory:

Time (h) = 0.4400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.4400
	Filtered Transported
Noble gases (atoms)	0.0000E+00 4.7538E+16
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 1.8447E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.4400
	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.3695E+15
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	4.1048E-06 1.5144E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) =	0.4400
	Filtered Transported
Noble gases (atoms)	0.0000E+00 9.1366E+15

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5237E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.4400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.1366E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5237E-05

EAB Doses:

Time (h) = 0.4500	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4173E-07	7.7615E-05	2.8515E-06
Accumulated dose (rem)	4.4939E-06	9.9701E-04	3.6748E-05

LPZ Doses:

Time (h) = 0.4500	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6521E-08	1.0566E-05	3.8819E-07
Accumulated dose (rem)	6.1177E-07	1.3573E-04	5.0026E-06

CR Doses:

Time (h) = 0.4500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5770E-09	4.7463E-06	1.5505E-07
Accumulated dose (rem)	1.5507E-08	4.6564E-05	1.5217E-06

DW Compartment Nuclide Inventory:

Time (h) = 0.4500	Ci	kg	Atoms	Decay
Rb-86	1.1015E+02	1.3537E-06	9.4794E+18	1.5026E+16
Rb-88	3.4515E+04	2.8592E-07	1.9566E+18	4.6833E+18
I-131	6.6423E+05	5.3578E-03	2.4630E+22	9.0642E+19
I-132	9.3511E+05	9.0593E-05	4.1330E+20	1.2750E+20
I-133	1.3587E+06	1.1995E-03	5.4310E+21	1.8658E+20
I-134	1.1086E+06	4.1555E-05	1.8675E+20	1.7855E+20
I-135	1.2434E+06	3.5405E-04	1.5794E+21	1.7329E+20
Xe-133	7.4726E+03	3.9922E-05	1.8076E+20	2.0132E+17
Xe-133m	5.2463E+02	1.1916E-06	5.3957E+18	1.4143E+16
Xe-135	8.8935E+04	3.4826E-05	1.5535E+20	2.3584E+18
Xe-135m	3.1604E+05	3.4717E-06	1.5487E+19	1.0503E+19
Cs-134	1.1022E+04	8.5191E-03	3.8286E+22	1.5032E+18
Cs-136	3.3598E+03	4.5841E-05	2.0299E+20	4.5840E+17
Cs-137	8.5574E+03	9.8381E-02	4.3246E+23	1.1670E+18

DW Transport Group Inventory:

Time (h) = 0.4500	Atmosphere	Sump	
Noble gases (atoms)	3.5700E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.1399E-01	6.9623E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0761E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3649E-04
Total I (Ci)			5.3100E+06

DW to WW Transport Group Inventory:

Time (h) = 0.4500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.4500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9444E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8510E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.4500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5422E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.1464E-06	1.5297E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.4500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.6051E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5391E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.4500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.6051E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5391E-05

EAB Doses:

Time (h) =	0.4600	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.5757E-07	8.1414E-05	2.9901E-06
Accumulated dose (rem)		4.8514E-06	1.0784E-03	3.9738E-05

LPZ Doses:

Time (h) =	0.4600	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.8677E-08	1.1083E-05	4.0706E-07
Accumulated dose (rem)		6.6045E-07	1.4681E-04	5.4097E-06

CR Doses:

Time (h) =	0.4600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7057E-09	5.1354E-06	1.6776E-07
Accumulated dose (rem)		1.7212E-08	5.1700E-05	1.6895E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.4600	Ci	kg	Atoms	Decay
Rb-86		1.0615E+02	1.3045E-06	9.1350E+18	1.5168E+16
Rb-88		3.3632E+04	2.7860E-07	1.9066E+18	4.7286E+18
I-131		6.4010E+05	5.1632E-03	2.3735E+22	9.1495E+19
I-132		9.0276E+05	8.7458E-05	3.9900E+20	1.2871E+20
I-133		1.3090E+06	1.1555E-03	5.2321E+21	1.8833E+20
I-134		1.0599E+06	3.9731E-05	1.7856E+20	1.7997E+20
I-135		1.1970E+06	3.4084E-04	1.5204E+21	1.7489E+20
Xe-133		7.5421E+03	4.0293E-05	1.8244E+20	2.1127E+17
Xe-133m		5.2947E+02	1.2027E-06	5.4455E+18	1.4842E+16
Xe-135		8.9879E+04	3.5195E-05	1.5700E+20	2.4768E+18
Xe-135m		3.1245E+05	3.4323E-06	1.5311E+19	1.0919E+19
Cs-134		1.0622E+04	8.2098E-03	3.6896E+22	1.5173E+18
Cs-136		3.2377E+03	4.4176E-05	1.9561E+20	4.6271E+17
Cs-137		8.2467E+03	9.4809E-02	4.1676E+23	1.1780E+18

DW Transport Group Inventory:

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Time (h) =	0.4600	Atmosphere	Sump	
Noble gases (atoms)	3.6020E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.0985E-01	7.1838E-01		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0369E-04	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.3150E-04	
Total I (Ci)			5.1087E+06	

DW to WW Transport Group Inventory:

Time (h) =	0.4600	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.4600	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.4600	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.1367E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8570E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.4600	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.7166E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.1863E-06	1.5444E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.4600	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0078E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5539E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.4600	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0078E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5539E-05

EAB Doses:

Time (h) =	0.4700	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7343E-07	8.5238E-05	3.1295E-06	
Accumulated dose (rem)	5.2249E-06	1.1637E-03	4.2867E-05	

LPZ Doses:

Time (h) =	0.4700	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0837E-08	1.1604E-05	4.2603E-07	
Accumulated dose (rem)	7.1128E-07	1.5841E-04	5.8357E-06	

CR Doses:

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Time (h) =	0.4700	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.8403E-09	5.5426E-06	1.8105E-07
Accumulated dose (rem)		1.9053E-08	5.7242E-05	1.8705E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.4700	Ci	kg	Atoms	Decay
Rb-86		1.0287E+02	1.2642E-06	8.8526E+18	1.5305E+16
Rb-88		3.2915E+04	2.7267E-07	1.8659E+18	4.7730E+18
I-131		6.2030E+05	5.0034E-03	2.3001E+22	9.2321E+19
I-132		8.7628E+05	8.4894E-05	3.8730E+20	1.2987E+20
I-133		1.2681E+06	1.1194E-03	5.0687E+21	1.9002E+20
I-134		1.0190E+06	3.8200E-05	1.7167E+20	1.8133E+20
I-135		1.1588E+06	3.2996E-04	1.4719E+21	1.7643E+20
Xe-133		7.6094E+03	4.0652E-05	1.8407E+20	2.2132E+17
Xe-133m		5.3416E+02	1.2133E-06	5.4937E+18	1.5547E+16
Xe-135		9.0795E+04	3.5554E-05	1.5860E+20	2.5965E+18
Xe-135m		3.0879E+05	3.3921E-06	1.5132E+19	1.1329E+19
Cs-134		1.0294E+04	7.9561E-03	3.5756E+22	1.5310E+18
Cs-136		3.1376E+03	4.2810E-05	1.8956E+20	4.6689E+17
Cs-137		7.9918E+03	9.1879E-02	4.0387E+23	1.1887E+18

DW Transport Group Inventory:

Time (h) =	0.4700	Atmosphere	Sump
Noble gases (atoms)		3.6330E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.0646E-01	7.3978E-01
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0047E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.2740E-04
Total I (Ci)			4.9425E+06

DW to WW Transport Group Inventory:

Time (h) = 0.4700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.4700	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.3308E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8628E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.4700	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.8926E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2248E-06	1.5587E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.4700	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0555E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 1.5682E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.4700	
Noble gases (atoms)	0.0000E+00	1.0555E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5682E-05

EAB Doses:

Time (h) =	0.4800	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.8933E-07	8.9086E-05	3.2697E-06
Accumulated dose (rem)		5.6142E-06	1.2527E-03	4.6137E-05

LPZ Doses:

Time (h) =	0.4800	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.3001E-08	1.2128E-05	4.4512E-07
Accumulated dose (rem)		7.6428E-07	1.7054E-04	6.2808E-06

CR Doses:

Time (h) =	0.4800	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.9808E-09	5.9678E-06	1.9493E-07
Accumulated dose (rem)		2.1033E-08	6.3210E-05	2.0655E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.4800	Ci	kg	Atoms	Decay
Rb-86		1.0017E+02	1.2311E-06	8.6208E+18	1.5438E+16
Rb-88		3.2332E+04	2.6783E-07	1.8329E+18	4.8166E+18
I-131		6.0405E+05	4.8724E-03	2.2399E+22	9.3126E+19
I-132		8.5462E+05	8.2795E-05	3.7773E+20	1.3101E+20
I-133		1.2345E+06	1.0898E-03	4.9344E+21	1.9166E+20
I-134		9.8457E+05	3.6907E-05	1.6587E+20	1.8265E+20
I-135		1.1273E+06	3.2099E-04	1.4319E+21	1.7794E+20
Xe-133		7.6749E+03	4.1002E-05	1.8565E+20	2.3146E+17
Xe-133m		5.3873E+02	1.2237E-06	5.5407E+18	1.6258E+16
Xe-135		9.1687E+04	3.5903E-05	1.6016E+20	2.7174E+18
Xe-135m		3.0511E+05	3.3516E-06	1.4951E+19	1.1735E+19
Cs-134		1.0024E+04	7.7479E-03	3.4820E+22	1.5444E+18
Cs-136		3.0554E+03	4.1689E-05	1.8460E+20	4.7096E+17
Cs-137		7.7827E+03	8.9475E-02	3.9331E+23	1.1990E+18

DW Transport Group Inventory:

Time (h) =	0.4800	Atmosphere	Sump
Noble gases (atoms)		3.6631E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.0367E-01	7.6057E-01
Dose Effective (Ci/cc) I-131 (Thyroid)			9.7830E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.2403E-04
Total I (Ci)			4.8050E+06

DW to WW Transport Group Inventory:

Time (h) = 0.4800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) =	0.4800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5266E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8685E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.4800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0701E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2623E-06	1.5725E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.4800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1036E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5822E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.4800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1036E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5822E-05

EAB Doses:

Time (h) =	0.4900	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.0523E-07	9.2957E-05	3.4106E-06
Accumulated dose (rem)		6.0194E-06	1.3457E-03	4.9548E-05

LPZ Doses:

Time (h) =	0.4900	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.5166E-08	1.2655E-05	4.6430E-07
Accumulated dose (rem)		8.1945E-07	1.8320E-04	6.7451E-06

CR Doses:

Time (h) =	0.4900	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.1272E-09	6.4112E-06	2.0940E-07
Accumulated dose (rem)		2.3161E-08	6.9621E-05	2.2749E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.4900	Ci	kg	Atoms	Decay
Rb-86		9.7963E+01	1.2040E-06	8.4307E+18	1.5569E+16
Rb-88		3.1855E+04	2.6388E-07	1.8058E+18	4.8595E+18
I-131		5.9072E+05	4.7649E-03	2.1904E+22	9.3913E+19
I-132		8.3689E+05	8.1078E-05	3.6989E+20	1.3213E+20
I-133		1.2069E+06	1.0654E-03	4.8241E+21	1.9327E+20
I-134		9.5528E+05	3.5810E-05	1.6093E+20	1.8393E+20
I-135		1.1013E+06	3.1359E-04	1.3989E+21	1.7940E+20
Xe-133		7.7389E+03	4.1344E-05	1.8720E+20	2.4168E+17
Xe-133m		5.4319E+02	1.2338E-06	5.5865E+18	1.6976E+16
Xe-135		9.2558E+04	3.6244E-05	1.6168E+20	2.8395E+18
Xe-135m		3.0142E+05	3.3111E-06	1.4770E+19	1.2136E+19
Cs-134		9.8035E+03	7.5771E-03	3.4053E+22	1.5575E+18
Cs-136		2.9880E+03	4.0769E-05	1.8053E+20	4.7494E+17
Cs-137		7.6112E+03	8.7503E-02	3.8464E+23	1.2092E+18

DW Transport Group Inventory:

Time (h) =	0.4900	Atmosphere	Sump
Noble gases (atoms)		3.6924E+20	0.0000E+00

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Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.0138E-01	7.8087E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			9.5660E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.2126E-04
Total I (Ci)			4.6911E+06

DW to WW Transport Group Inventory:

Time (h) = 0.4900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.4900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.4900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7240E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8740E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.4900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2490E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2989E-06	1.5860E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.4900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1522E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5957E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.4900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1522E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.5957E-05

EAB Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2115E-07	9.6849E-05	3.5522E-06
Accumulated dose (rem)	6.4406E-06	1.4426E-03	5.3100E-05

LPZ Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7334E-08	1.3184E-05	4.8358E-07
Accumulated dose (rem)	8.7678E-07	1.9638E-04	7.2287E-06

CR Doses:

Time (h) = 0.5000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	2.2794E-09	6.8728E-06	2.2447E-07
Accumulated dose (rem)	2.5440E-08	7.6494E-05	2.4993E-06

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	9.6150E+01	1.1817E-06	8.2747E+18	1.5697E+16
Rb-88	3.1463E+04	2.6063E-07	1.7836E+18	4.9019E+18
I-131	5.7979E+05	4.6766E-03	2.1499E+22	9.4685E+19
I-132	8.2238E+05	7.9672E-05	3.6348E+20	1.3323E+20
I-133	1.1842E+06	1.0454E-03	4.7333E+21	1.9485E+20
I-134	9.3024E+05	3.4871E-05	1.5671E+20	1.8517E+20
I-135	1.0798E+06	3.0747E-04	1.3716E+21	1.8084E+20
Xe-133	7.8017E+03	4.1680E-05	1.8872E+20	2.5199E+17
Xe-133m	5.4756E+02	1.2437E-06	5.6315E+18	1.7699E+16
Xe-135	9.3413E+04	3.6579E-05	1.6317E+20	2.9627E+18
Xe-135m	2.9774E+05	3.2707E-06	1.4590E+19	1.2532E+19
Cs-134	9.6223E+03	7.4370E-03	3.3423E+22	1.5703E+18
Cs-136	2.9327E+03	4.0014E-05	1.7719E+20	4.7885E+17
Cs-137	7.4705E+03	8.5885E-02	3.7753E+23	1.2191E+18

DW Transport Group Inventory:

Time (h) =	0.5000	Atmosphere	Sump
Noble gases (atoms)	3.7212E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	9.9508E-02	8.0075E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			9.3878E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.1898E-04
Total I (Ci)			4.5964E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9230E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8794E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4294E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3347E-06	1.5992E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2011E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6090E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.5000	
Noble gases (atoms)	0.0000E+00	1.2011E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6090E-05

EAB Doses:

Time (h) =	0.5100	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.3708E-07	1.0076E-04	3.6945E-06
Accumulated dose (rem)		6.8777E-06	1.5433E-03	5.6794E-05

LPZ Doses:

Time (h) =	0.5100	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.9502E-08	1.3717E-05	5.0295E-07
Accumulated dose (rem)		9.3629E-07	2.1010E-04	7.7317E-06

CR Doses:

Time (h) =	0.5100	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.4375E-09	7.3527E-06	2.4013E-07
Accumulated dose (rem)		2.7877E-08	8.3847E-05	2.7395E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.5100	Ci	kg	Atoms	Decay
Rb-86		9.9925E+01	1.2281E-06	8.5995E+18	1.5830E+16
Rb-88		3.3115E+04	2.7432E-07	1.8773E+18	4.9465E+18
I-131		6.3427E+05	5.1161E-03	2.3519E+22	9.5530E+19
I-132		9.0243E+05	8.7427E-05	3.9886E+20	1.3443E+20
I-133		1.2951E+06	1.1432E-03	5.1765E+21	1.9657E+20
I-134		1.0097E+06	3.7848E-05	1.7009E+20	1.8652E+20
I-135		1.1800E+06	3.3602E-04	1.4989E+21	1.8242E+20
Xe-133		7.8704E+03	4.2047E-05	1.9038E+20	2.6238E+17
Xe-133m		5.5235E+02	1.2546E-06	5.6808E+18	1.8429E+16
Xe-135		9.4329E+04	3.6938E-05	1.6477E+20	3.0871E+18
Xe-135m		2.9456E+05	3.2358E-06	1.4434E+19	1.2923E+19
Cs-134		1.0000E+04	7.7291E-03	3.4736E+22	1.5836E+18
Cs-136		3.0478E+03	4.1585E-05	1.8414E+20	4.8291E+17
Cs-137		7.7639E+03	8.9258E-02	3.9235E+23	1.2294E+18

DW Transport Group Inventory:

Time (h) =	0.5100	Atmosphere	Sump
Noble gases (atoms)		3.7527E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.0375E-01	8.2089E-01
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.0269E-04
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.3014E-04
Total I (Ci)			5.0215E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Pathway

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Time (h) =	0.5100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1235E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	1.8849E-04	

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway		
Time (h) =	0.5100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6112E+15	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.3710E-06	1.6126E-06	

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway		
Time (h) =	0.5100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2504E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	1.6225E-05	

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	0.5100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2504E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	1.6225E-05	

EAB Doses:

Time (h) =	0.5200	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5302E-07	1.0470E-04	3.8375E-06	
Accumulated dose (rem)	7.3307E-06	1.6480E-03	6.0632E-05	

LPZ Doses:

Time (h) =	0.5200	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1672E-08	1.4253E-05	5.2242E-07	
Accumulated dose (rem)	9.9796E-07	2.2435E-04	8.2541E-06	

CR Doses:

Time (h) =	0.5200	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6014E-09	7.8508E-06	2.5638E-07	
Accumulated dose (rem)	3.0479E-08	9.1698E-05	2.9958E-06	

DW Compartment Nuclide Inventory:

Time (h) =	0.5200	Ci	kg	Atoms	Decay
Rb-86	1.0302E+02	1.2661E-06	8.8660E+18	1.5967E+16	
Rb-88	3.4427E+04	2.8518E-07	1.9516E+18	4.9929E+18	
I-131	6.7896E+05	5.4766E-03	2.5176E+22	9.6434E+19	
I-132	9.6788E+05	9.3767E-05	4.2779E+20	1.3572E+20	
I-133	1.3859E+06	1.2234E-03	5.5396E+21	1.9842E+20	
I-134	1.0723E+06	4.0197E-05	1.8065E+20	1.8796E+20	
I-135	1.2619E+06	3.5933E-04	1.6029E+21	1.8410E+20	
Xe-133	7.9440E+03	4.2440E-05	1.9216E+20	2.7286E+17	
Xe-133m	5.5748E+02	1.2663E-06	5.7335E+18	1.9164E+16	
Xe-135	9.5295E+04	3.7316E-05	1.6646E+20	3.2127E+18	
Xe-135m	2.9181E+05	3.2056E-06	1.4299E+19	1.3310E+19	
Cs-134	1.0310E+04	7.9688E-03	3.5813E+22	1.5973E+18	
Cs-136	3.1422E+03	4.2873E-05	1.8984E+20	4.8709E+17	
Cs-137	8.0046E+03	9.2026E-02	4.0452E+23	1.2401E+18	

DW Transport Group Inventory:

Time (h) =	0.5200	Atmosphere	Sump
Noble gases (atoms)	3.7866E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	

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Aerosols (kg)	1.0723E-01	8.4178E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0991E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3927E-04
Total I (Ci)			5.3670E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.5200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3257E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8906E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.5200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7945E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4087E-06	1.6265E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.5200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3001E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6365E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.5200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3001E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6365E-05

EAB Doses:

Time (h) =	0.5300	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.6899E-07	1.0866E-04	3.9813E-06
Accumulated dose (rem)		7.7997E-06	1.7567E-03	6.4613E-05

LPZ Doses:

Time (h) =	0.5300	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.3845E-08	1.4792E-05	5.4199E-07
Accumulated dose (rem)		1.0618E-06	2.3914E-04	8.7961E-06

CR Doses:

Time (h) =	0.5300	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7711E-09	8.3673E-06	2.7324E-07
Accumulated dose (rem)		3.3250E-08	1.0007E-04	3.2691E-06

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DW Compartment Nuclide Inventory:

Time (h) = 0.5300	Ci	kg	Atoms	Decay
Rb-86	1.0556E+02	1.2973E-06	9.0846E+18	1.6108E+16
Rb-88	3.5464E+04	2.9378E-07	2.0104E+18	5.0407E+18
I-131	7.1562E+05	5.7723E-03	2.6536E+22	9.7387E+19
I-132	1.0214E+06	9.8952E-05	4.5144E+20	1.3709E+20
I-133	1.4603E+06	1.2891E-03	5.8369E+21	2.0036E+20
I-134	1.1214E+06	4.2035E-05	1.8891E+20	1.8946E+20
I-135	1.3287E+06	3.7834E-04	1.6877E+21	1.8587E+20
Xe-133	8.0215E+03	4.2854E-05	1.9404E+20	2.8344E+17
Xe-133m	5.6289E+02	1.2785E-06	5.7892E+18	1.9907E+16
Xe-135	9.6301E+04	3.7710E-05	1.6822E+20	3.3396E+18
Xe-135m	2.8940E+05	3.1791E-06	1.4182E+19	1.3694E+19
Cs-134	1.0565E+04	8.1653E-03	3.6696E+22	1.6114E+18
Cs-136	3.2197E+03	4.3930E-05	1.9452E+20	4.9138E+17
Cs-137	8.2020E+03	9.4296E-02	4.1450E+23	1.2510E+18

DW Transport Group Inventory:

Time (h) = 0.5300	Atmosphere	Sump
Noble gases (atoms)	3.8223E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.1009E-01	8.6331E-01
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1583E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4675E-04
Total I (Ci)		5.6473E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 0.5300	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	6.5297E+16
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	1.8965E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 0.5300	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	4.9795E+15
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		4.4475E-06	1.6408E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 0.5300	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	1.3502E+16
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	1.6509E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 0.5300		
Noble gases (atoms)	0.0000E+00	1.3502E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6509E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5400			
Delta dose (rem)	4.8498E-07	1.1264E-04	4.1260E-06
Accumulated dose (rem)	8.2846E-06	1.8693E-03	6.8739E-05

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5400			
Delta dose (rem)	6.6023E-08	1.5335E-05	5.6169E-07
Accumulated dose (rem)	1.1278E-06	2.5448E-04	9.3578E-06

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.5400			
Delta dose (rem)	2.9466E-09	8.9022E-06	2.9069E-07
Accumulated dose (rem)	3.6196E-08	1.0897E-04	3.5598E-06

DW Compartment Nuclide Inventory:

Time (h) = 0.5400	Ci	kg	Atoms	Decay
Rb-86	1.0764E+02	1.3229E-06	9.2638E+18	1.6251E+16
Rb-88	3.6283E+04	3.0056E-07	2.0568E+18	5.0896E+18
I-131	7.4569E+05	6.0148E-03	2.7651E+22	9.8381E+19
I-132	1.0651E+06	1.0319E-04	4.7078E+20	1.3851E+20
I-133	1.5212E+06	1.3428E-03	6.0802E+21	2.0239E+20
I-134	1.1593E+06	4.3457E-05	1.9530E+20	1.9101E+20
I-135	1.3831E+06	3.9383E-04	1.7568E+21	1.8771E+20
Xe-133	8.1023E+03	4.3286E-05	1.9599E+20	2.9413E+17
Xe-133m	5.6852E+02	1.2914E-06	5.8471E+18	2.0656E+16
Xe-135	9.7340E+04	3.8117E-05	1.7003E+20	3.4678E+18
Xe-135m	2.8728E+05	3.1558E-06	1.4078E+19	1.4074E+19
Cs-134	1.0773E+04	8.3266E-03	3.7421E+22	1.6257E+18
Cs-136	3.2832E+03	4.4797E-05	1.9836E+20	4.9575E+17
Cs-137	8.3640E+03	9.6158E-02	4.2268E+23	1.2622E+18

DW Transport Group Inventory:

Time (h) = 0.5400	Atmosphere	Sump	
Noble gases (atoms)	3.8595E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.1243E-01	8.8535E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.2069E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.5288E-04
Total I (Ci)			5.8744E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 0.5400		
Noble gases (atoms)	0.0000E+00	6.7357E+16

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9024E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.5400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1662E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4872E-06	1.6554E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.5400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4009E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6656E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.5400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4009E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6656E-05

EAB Doses:

Time (h) = 0.5500	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0102E-07	1.1666E-04	4.2717E-06
Accumulated dose (rem)	8.7857E-06	1.9860E-03	7.3011E-05

LPZ Doses:

Time (h) = 0.5500	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8206E-08	1.5881E-05	5.8152E-07
Accumulated dose (rem)	1.1960E-06	2.7036E-04	9.9393E-06

CR Doses:

Time (h) = 0.5500	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1279E-09	9.4555E-06	3.0874E-07
Accumulated dose (rem)	3.9324E-08	1.1842E-04	3.8685E-06

DW Compartment Nuclide Inventory:

Time (h) = 0.5500	Ci	kg	Atoms	Decay
Rb-86	1.0935E+02	1.3439E-06	9.4109E+18	1.6397E+16
Rb-88	3.6925E+04	3.0589E-07	2.0933E+18	5.1394E+18
I-131	7.7035E+05	6.2137E-03	2.8565E+22	9.9407E+19
I-132	1.1009E+06	1.0666E-04	4.8659E+20	1.3997E+20
I-133	1.5710E+06	1.3868E-03	6.2794E+21	2.0448E+20
I-134	1.1882E+06	4.4542E-05	2.0018E+20	1.9260E+20
I-135	1.4274E+06	4.0644E-04	1.8131E+21	1.8961E+20
Xe-133	8.1857E+03	4.3731E-05	1.9801E+20	3.0492E+17
Xe-133m	5.7435E+02	1.3046E-06	5.9070E+18	2.1414E+16
Xe-135	9.8405E+04	3.8534E-05	1.7189E+20	3.5974E+18
Xe-135m	2.8540E+05	3.1351E-06	1.3985E+19	1.4451E+19
Cs-134	1.0944E+04	8.4589E-03	3.8015E+22	1.6403E+18
Cs-136	3.3353E+03	4.5507E-05	2.0151E+20	5.0020E+17
Cs-137	8.4969E+03	9.7686E-02	4.2940E+23	1.2735E+18

DW Transport Group Inventory:

Time (h) = 0.5500	Atmosphere	Sump
Noble gases (atoms)	3.8980E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.1435E-01	9.0780E-01
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2466E-04

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 1.5789E-04
 Total I (Ci) 6.0579E+06

DW to WW Transport Group Inventory:
 Time (h) = 0.5500 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
 Time (h) = 0.5500 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.9437E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9086E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3547E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5277E-06	1.6704E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4520E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6807E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4520E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6807E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1710E-07	1.2071E-04	4.4184E-06
Accumulated dose (rem)	9.3028E-06	2.1067E-03	7.7429E-05

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0395E-08	1.6432E-05	6.0149E-07
Accumulated dose (rem)	1.2664E-06	2.8679E-04	1.0541E-05

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3150E-09	1.0027E-05	3.2740E-07
Accumulated dose (rem)	4.2639E-08	1.2845E-04	4.1959E-06

DW Compartment Nuclide Inventory:

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Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1075E+02	1.3612E-06	9.5315E+18	1.6544E+16
Rb-88	3.7427E+04	3.1004E-07	2.1217E+18	5.1898E+18
I-131	7.9057E+05	6.3769E-03	2.9315E+22	1.0046E+20
I-132	1.1302E+06	1.0949E-04	4.9951E+20	1.4148E+20
I-133	1.6118E+06	1.4228E-03	6.4423E+21	2.0663E+20
I-134	1.2099E+06	4.5353E-05	2.0382E+20	1.9421E+20
I-135	1.4634E+06	4.1669E-04	1.8588E+21	1.9156E+20
Xe-133	8.2713E+03	4.4189E-05	2.0008E+20	3.1582E+17
Xe-133m	5.8032E+02	1.3182E-06	5.9685E+18	2.2179E+16
Xe-135	9.9492E+04	3.8960E-05	1.7379E+20	3.7284E+18
Xe-135m	2.8371E+05	3.1166E-06	1.3903E+19	1.4826E+19
Cs-134	1.1085E+04	8.5674E-03	3.8503E+22	1.6551E+18
Cs-136	3.3780E+03	4.6090E-05	2.0409E+20	5.0470E+17
Cs-137	8.6059E+03	9.8939E-02	4.3491E+23	1.2850E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	3.9375E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.1593E-01	9.3061E-01
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2792E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.6199E-04
Total I (Ci)		6.2057E+06

DW to WW Transport Group Inventory:

Time (h) = 0.5600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.1537E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9148E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5451E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5688E-06	1.6855E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5036E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6959E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5036E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6959E-05

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Noble gases (atoms)	0.0000E+00	1.5036E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.6959E-05

EAB Doses:

Time (h) =	0.5700	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3323E-07	1.2478E-04	4.5661E-06	
Accumulated dose (rem)	9.8360E-06	2.2315E-03	8.1995E-05	

LPZ Doses:

Time (h) =	0.5700	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.2590E-08	1.6987E-05	6.2160E-07	
Accumulated dose (rem)	1.3390E-06	3.0378E-04	1.1162E-05	

CR Doses:

Time (h) =	0.5700	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5079E-09	1.0618E-05	3.4666E-07	
Accumulated dose (rem)	4.6147E-08	1.3907E-04	4.5426E-06	

DW Compartment Nuclide Inventory:

Time (h) =	0.5700	Ci	kg	Atoms	Decay
Rb-86		1.1190E+02	1.3753E-06	9.6304E+18	1.6693E+16
Rb-88		3.7816E+04	3.1326E-07	2.1437E+18	5.2408E+18
I-131		8.0716E+05	6.5107E-03	2.9930E+22	1.0153E+20
I-132		1.1541E+06	1.1180E-04	5.1007E+20	1.4302E+20
I-133		1.6451E+06	1.4522E-03	6.5755E+21	2.0882E+20
I-134		1.2256E+06	4.5941E-05	2.0646E+20	1.9585E+20
I-135		1.4925E+06	4.2500E-04	1.8959E+21	1.9355E+20
Xe-133		8.3587E+03	4.4656E-05	2.0220E+20	3.2684E+17
Xe-133m		5.8642E+02	1.3320E-06	6.0312E+18	2.2952E+16
Xe-135		1.0060E+05	3.9392E-05	1.7572E+20	3.8609E+18
Xe-135m		2.8219E+05	3.0999E-06	1.3828E+19	1.5199E+19
Cs-134		1.1200E+04	8.6564E-03	3.8903E+22	1.6700E+18
Cs-136		3.4130E+03	4.6568E-05	2.0621E+20	5.0924E+17
Cs-137		8.6953E+03	9.9967E-02	4.3943E+23	1.2965E+18

DW Transport Group Inventory:

Time (h) =	0.5700	Atmosphere	Sump
Noble gases (atoms)	3.9778E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.1722E-01	9.5369E-01	
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3059E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.6534E-04	
Total I (Ci)		6.3244E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.5700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.5700	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.3659E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 1.9210E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.5700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7375E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6104E-06	1.7009E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.5700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5558E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7114E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.5700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5558E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7114E-05

EAB Doses:

Time (h) = 0.5800	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4941E-07	1.2890E-04	4.7149E-06
Accumulated dose (rem)	1.0385E-05	2.3604E-03	8.6710E-05

LPZ Doses:

Time (h) = 0.5800	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4793E-08	1.7547E-05	6.4186E-07
Accumulated dose (rem)	1.4138E-06	3.2133E-04	1.1804E-05

CR Doses:

Time (h) = 0.5800	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7066E-09	1.1227E-05	3.6654E-07
Accumulated dose (rem)	4.9854E-08	1.5030E-04	4.9091E-06

DW Compartment Nuclide Inventory:

Time (h) = 0.5800	Ci	kg	Atoms	Decay
Rb-86	1.1285E+02	1.3869E-06	9.7115E+18	1.6844E+16
Rb-88	3.8114E+04	3.1573E-07	2.1606E+18	5.2922E+18
I-131	8.2076E+05	6.6204E-03	3.0434E+22	1.0263E+20
I-132	1.1736E+06	1.1370E-04	5.1870E+20	1.4459E+20
I-133	1.6723E+06	1.4762E-03	6.6843E+21	2.1105E+20
I-134	1.2364E+06	4.6349E-05	2.0830E+20	1.9751E+20
I-135	1.5161E+06	4.3172E-04	1.9258E+21	1.9557E+20
Xe-133	8.4476E+03	4.5130E-05	2.0435E+20	3.3797E+17
Xe-133m	5.9262E+02	1.3461E-06	6.0950E+18	2.3733E+16
Xe-135	1.0171E+05	3.9829E-05	1.7767E+20	3.9949E+18
Xe-135m	2.8081E+05	3.0847E-06	1.3760E+19	1.5570E+19
Cs-134	1.1294E+04	8.7295E-03	3.9231E+22	1.6851E+18
Cs-136	3.4417E+03	4.6960E-05	2.0794E+20	5.1383E+17
Cs-137	8.7687E+03	1.0081E-01	4.4314E+23	1.3082E+18

DW Transport Group Inventory:

Time (h) = 0.5800	Atmosphere	Sump
Noble gases (atoms)	4.0187E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.1828E-01	9.7701E-01
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.3277E-04
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.6807E-04
Total I (Ci)		6.4192E+06

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DW to WW Transport Group Inventory:

Time (h) = 0.5800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.5800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5803E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9274E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.5800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9318E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6524E-06	1.7164E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.5800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6085E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7270E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.5800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6085E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7270E-05

EAB Doses:

Time (h) =	0.5900	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.6564E-07	1.3304E-04	4.8649E-06
Accumulated dose (rem)		1.0951E-05	2.4934E-03	9.1575E-05

LPZ Doses:

Time (h) =	0.5900	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.7003E-08	1.8111E-05	6.6228E-07
Accumulated dose (rem)		1.4908E-06	3.3944E-04	1.2467E-05

CR Doses:

Time (h) =	0.5900	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.9110E-09	1.1855E-05	3.8702E-07
Accumulated dose (rem)		5.3765E-08	1.6215E-04	5.2961E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.5900	Ci	kg	Atoms	Decay
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Rb-86	1.1362E+02	1.3964E-06	9.7780E+18	1.6995E+16
Rb-88	3.8339E+04	3.1759E-07	2.1734E+18	5.3438E+18
I-131	8.3191E+05	6.7103E-03	3.0848E+22	1.0374E+20
I-132	1.1895E+06	1.1524E-04	5.2575E+20	1.4617E+20
I-133	1.6945E+06	1.4958E-03	6.7730E+21	2.1331E+20
I-134	1.2434E+06	4.6610E-05	2.0947E+20	1.9917E+20
I-135	1.5352E+06	4.3714E-04	1.9500E+21	1.9762E+20
Xe-133	8.5376E+03	4.5611E-05	2.0652E+20	3.4922E+17
Xe-133m	5.9891E+02	1.3604E-06	6.1596E+18	2.4522E+16
Xe-135	1.0284E+05	4.0270E-05	1.7964E+20	4.1303E+18
Xe-135m	2.7954E+05	3.0707E-06	1.3698E+19	1.5939E+19
Cs-134	1.1372E+04	8.7894E-03	3.9501E+22	1.7002E+18
Cs-136	3.4653E+03	4.7281E-05	2.0936E+20	5.1844E+17
Cs-137	8.8289E+03	1.0150E-01	4.4618E+23	1.3200E+18

DW Transport Group Inventory:

Time (h) =	0.5900	Atmosphere	Sump	
Noble gases (atoms)	4.0602E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.1915E-01	1.0005E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3456E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7031E-04	
Total I (Ci)			6.4945E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.5900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.5900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.5900	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.7968E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9338E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.5900	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.1281E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6948E-06	1.7320E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.5900	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6617E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7427E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.5900	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6617E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7427E-05

EAB Doses:

Time (h) =	0.6000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.8193E-07	1.3722E-04	5.0160E-06
Accumulated dose (rem)		1.1533E-05	2.6306E-03	9.6591E-05

LPZ Doses:

Time (h) =	0.6000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.9221E-08	1.8680E-05	6.8285E-07
Accumulated dose (rem)		1.5700E-06	3.5812E-04	1.3149E-05

CR Doses:

Time (h) =	0.6000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.1212E-09	1.2503E-05	4.0813E-07
Accumulated dose (rem)		5.7886E-08	1.7465E-04	5.7043E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.6000	Ci	kg	Atoms	Decay
Rb-86		1.1425E+02	1.4041E-06	9.8325E+18	1.7147E+16
Rb-88		3.8505E+04	3.1897E-07	2.1828E+18	5.3957E+18
I-131		8.4106E+05	6.7841E-03	3.1187E+22	1.0486E+20
I-132		1.2026E+06	1.1650E-04	5.3151E+20	1.4778E+20
I-133		1.7126E+06	1.5118E-03	6.8454E+21	2.1559E+20
I-134		1.2472E+06	4.6752E-05	2.1011E+20	2.0084E+20
I-135		1.5505E+06	4.4150E-04	1.9694E+21	1.9969E+20
Xe-133		8.6286E+03	4.6097E-05	2.0872E+20	3.6059E+17
Xe-133m		6.0526E+02	1.3748E-06	6.2249E+18	2.5320E+16
Xe-135		1.0397E+05	4.0715E-05	1.8162E+20	4.2672E+18
Xe-135m		2.7836E+05	3.0578E-06	1.3641E+19	1.6306E+19
Cs-134		1.1436E+04	8.8385E-03	3.9722E+22	1.7154E+18
Cs-136		3.4846E+03	4.7545E-05	2.1053E+20	5.2308E+17
Cs-137		8.8783E+03	1.0207E-01	4.4867E+23	1.3318E+18

DW Transport Group Inventory:

Time (h) =	0.6000	Atmosphere	Sump
Noble gases (atoms)		4.1021E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.1986E-01	1.0242E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3602E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7213E-04
Total I (Ci)			6.5539E+06

DW to WW Transport Group Inventory:

Time (h) =	0.6000	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.6000	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.0156E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9402E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.3264E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.7374E-06	1.7478E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.6000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7155E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7585E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.6000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7155E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7585E-05

EAB Doses:

Time (h) =	0.6100	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.9828E-07	1.4143E-04	5.1682E-06
Accumulated dose (rem)		1.2131E-05	2.7720E-03	1.0176E-04

LPZ Doses:

Time (h) =	0.6100	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.1447E-08	1.9254E-05	7.0358E-07
Accumulated dose (rem)		1.6515E-06	3.7737E-04	1.3853E-05

CR Doses:

Time (h) =	0.6100	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.3372E-09	1.3169E-05	4.2985E-07
Accumulated dose (rem)		6.2223E-08	1.8782E-04	6.1341E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.6100	Ci	kg	Atoms	Decay
Rb-86		1.1477E+02	1.4105E-06	9.8772E+18	1.7300E+16
Rb-88		3.8625E+04	3.1996E-07	2.1896E+18	5.4478E+18
I-131		8.4855E+05	6.8446E-03	3.1465E+22	1.0599E+20
I-132		1.2132E+06	1.1753E-04	5.3622E+20	1.4940E+20
I-133		1.7273E+06	1.5248E-03	6.9043E+21	2.1789E+20
I-134		1.2484E+06	4.6799E-05	2.1032E+20	2.0251E+20
I-135		1.5627E+06	4.4498E-04	1.9850E+21	2.0177E+20
Xe-133		8.7203E+03	4.6587E-05	2.1094E+20	3.7209E+17
Xe-133m		6.1166E+02	1.3893E-06	6.2908E+18	2.6126E+16
Xe-135		1.0512E+05	4.1162E-05	1.8362E+20	4.4057E+18
Xe-135m		2.7727E+05	3.0458E-06	1.3587E+19	1.6672E+19
Cs-134		1.1488E+04	8.8789E-03	3.9903E+22	1.7307E+18
Cs-136		3.5004E+03	4.7760E-05	2.1149E+20	5.2775E+17
Cs-137		8.9188E+03	1.0254E-01	4.5072E+23	1.3437E+18

DW Transport Group Inventory:

Time (h) =	0.6100	Atmosphere	Sump	
Noble gases (atoms)		4.1444E+20	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		1.2044E-01	1.0480E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)				1.3722E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				1.7361E-04
Total I (Ci)				6.6002E+06

DW to WW Transport Group Inventory:

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Time (h) = 0.6100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.6100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6100	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.2366E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9467E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6100	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.5268E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.7803E-06	1.7636E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.6100	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7698E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7744E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.6100	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7698E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7744E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.6200		
Delta dose (rem)	6.1469E-07	1.4568E-04	5.3217E-06
Accumulated dose (rem)	1.2746E-05	2.9177E-03	1.0708E-04

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.6200		
Delta dose (rem)	8.3680E-08	1.9832E-05	7.2446E-07
Accumulated dose (rem)	1.7352E-06	3.9720E-04	1.4577E-05

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.6200		
Delta dose (rem)	4.5588E-09	1.3854E-05	4.5219E-07
Accumulated dose (rem)	6.6782E-08	2.0168E-04	6.5863E-06

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.6200			
Rb-86	1.1520E+02	1.4158E-06	9.9139E+18	1.7453E+16
Rb-88	3.8707E+04	3.2064E-07	2.1943E+18	5.5000E+18

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I-131	8.5470E+05	6.8941E-03	3.1693E+22	1.0713E+20
I-132	1.2219E+06	1.1838E-04	5.4006E+20	1.5103E+20
I-133	1.7393E+06	1.5354E-03	6.9522E+21	2.2021E+20
I-134	1.2476E+06	4.6768E-05	2.1018E+20	2.0417E+20
I-135	1.5724E+06	4.4774E-04	1.9973E+21	2.0386E+20
Xe-133	8.8127E+03	4.7081E-05	2.1318E+20	3.8370E+17
Xe-133m	6.1811E+02	1.4040E-06	6.3571E+18	2.6940E+16
Xe-135	1.0626E+05	4.1611E-05	1.8562E+20	4.5456E+18
Xe-135m	2.7625E+05	3.0346E-06	1.3537E+19	1.7037E+19
Cs-134	1.1531E+04	8.9119E-03	4.0051E+22	1.7461E+18
Cs-136	3.5134E+03	4.7937E-05	2.1227E+20	5.3243E+17
Cs-137	8.9520E+03	1.0292E-01	4.5240E+23	1.3556E+18

DW Transport Group Inventory:

Time (h) =	0.6200	Atmosphere	Sump	
Noble gases (atoms)	4.1869E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2092E-01	1.0719E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3820E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7482E-04	
Total I (Ci)			6.6359E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.6200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.6200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.4600E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9532E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7293E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.8234E-06	1.7795E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.6200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8247E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7904E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.6200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8247E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.7904E-05

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EAB Doses:

Time (h) =	0.6300	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3115E-07	1.4996E-04	5.4763E-06	
Accumulated dose (rem)	1.3377E-05	3.0677E-03	1.1256E-04	

LPZ Doses:

Time (h) =	0.6300	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5922E-08	2.0415E-05	7.4551E-07	
Accumulated dose (rem)	1.8211E-06	4.1762E-04	1.5323E-05	

CR Doses:

Time (h) =	0.6300	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7862E-09	1.4559E-05	4.7516E-07	
Accumulated dose (rem)	7.1568E-08	2.1623E-04	7.0615E-06	

DW Compartment Nuclide Inventory:

Time (h) =	0.6300	Ci	kg	Atoms	Decay
Rb-86		1.1555E+02	1.4201E-06	9.9439E+18	1.7607E+16
Rb-88		3.8759E+04	3.2107E-07	2.1972E+18	5.5522E+18
I-131		8.5973E+05	6.9347E-03	3.1879E+22	1.0827E+20
I-132		1.2290E+06	1.1906E-04	5.4319E+20	1.5267E+20
I-133		1.7490E+06	1.5440E-03	6.9911E+21	2.2254E+20
I-134		1.2451E+06	4.6675E-05	2.0976E+20	2.0584E+20
I-135		1.5801E+06	4.4992E-04	2.0070E+21	2.0597E+20
Xe-133		8.9056E+03	4.7577E-05	2.1543E+20	3.9544E+17
Xe-133m		6.2460E+02	1.4187E-06	6.4238E+18	2.7764E+16
Xe-135		1.0741E+05	4.2061E-05	1.8763E+20	4.6871E+18
Xe-135m		2.7528E+05	3.0240E-06	1.3490E+19	1.7400E+19
Cs-134		1.1566E+04	8.9391E-03	4.0173E+22	1.7615E+18
Cs-136		3.5240E+03	4.8082E-05	2.1291E+20	5.3712E+17
Cs-137		8.9793E+03	1.0323E-01	4.5378E+23	1.3676E+18

DW Transport Group Inventory:

Time (h) =	0.6300	Atmosphere	Sump
Noble gases (atoms)	4.2297E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2131E-01	1.0959E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3899E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7579E-04
Total I (Ci)			6.6630E+06

DW to WW Transport Group Inventory:

Time (h) = 0.6300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.6300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6300	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.6856E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9597E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.9338E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.8666E-06	1.7954E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8802E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8065E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8802E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8065E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4768E-07	1.5428E-04	5.6321E-06
Accumulated dose (rem)	1.4025E-05	3.2220E-03	1.1819E-04

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8171E-08	2.1003E-05	7.6672E-07
Accumulated dose (rem)	1.9093E-06	4.3862E-04	1.6090E-05

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0194E-09	1.5282E-05	4.9877E-07
Accumulated dose (rem)	7.6588E-08	2.3152E-04	7.5602E-06

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1583E+02	1.4236E-06	9.9685E+18	1.7762E+16
Rb-88	3.8786E+04	3.2130E-07	2.1988E+18	5.6045E+18
I-131	8.6386E+05	6.9680E-03	3.2032E+22	1.0942E+20
I-132	1.2348E+06	1.1962E-04	5.4574E+20	1.5431E+20
I-133	1.7569E+06	1.5509E-03	7.0225E+21	2.2488E+20
I-134	1.2413E+06	4.6531E-05	2.0912E+20	2.0750E+20
I-135	1.5860E+06	4.5162E-04	2.0146E+21	2.0808E+20
Xe-133	8.9990E+03	4.8076E-05	2.1768E+20	4.0730E+17
Xe-133m	6.3111E+02	1.4335E-06	6.4908E+18	2.8596E+16
Xe-135	1.0856E+05	4.2512E-05	1.8964E+20	4.8301E+18
Xe-135m	2.7437E+05	3.0140E-06	1.3445E+19	1.7761E+19
Cs-134	1.1594E+04	8.9613E-03	4.0273E+22	1.7769E+18
Cs-136	3.5327E+03	4.8201E-05	2.1344E+20	5.4183E+17
Cs-137	9.0016E+03	1.0349E-01	4.5491E+23	1.3796E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	4.2726E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2164E-01	1.1199E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3965E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7659E-04
Total I (Ci)			6.6828E+06

DW to WW Transport Group Inventory:

Time (h) = 0.6400 Leakage Transport

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Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
 Time (h) = 0.6400 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.6400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9135E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9663E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.6400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.1404E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.9099E-06	1.8114E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.6400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9362E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8226E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.6400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9362E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8226E-05

EAB Doses:

Time (h) = 0.6500	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6426E-07	1.5864E-04	5.7890E-06
Accumulated dose (rem)	1.4689E-05	3.3806E-03	1.2398E-04

LPZ Doses:

Time (h) = 0.6500	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0428E-08	2.1596E-05	7.8809E-07
Accumulated dose (rem)	1.9997E-06	4.6022E-04	1.6878E-05

CR Doses:

Time (h) = 0.6500	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2583E-09	1.6026E-05	5.2300E-07
Accumulated dose (rem)	8.1846E-08	2.4754E-04	8.0832E-06

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	1.1607E+02	1.4265E-06	9.9887E+18	1.7916E+16
Rb-88	3.8794E+04	3.2137E-07	2.1992E+18	5.6568E+18
I-131	8.6724E+05	6.9953E-03	3.2158E+22	1.1058E+20
I-132	1.2395E+06	1.2008E-04	5.4783E+20	1.5597E+20

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I-133	1.7632E+06	1.5565E-03	7.0478E+21	2.2723E+20
I-134	1.2364E+06	4.6346E-05	2.0829E+20	2.0915E+20
I-135	1.5906E+06	4.5293E-04	2.0204E+21	2.1020E+20
Xe-133	9.0926E+03	4.8576E-05	2.1995E+20	4.1929E+17
Xe-133m	6.3765E+02	1.4484E-06	6.5580E+18	2.9436E+16
Xe-135	1.0972E+05	4.2963E-05	1.9165E+20	4.9747E+18
Xe-135m	2.7350E+05	3.0044E-06	1.3402E+19	1.8122E+19
Cs-134	1.1618E+04	8.9796E-03	4.0355E+22	1.7924E+18
Cs-136	3.5398E+03	4.8298E-05	2.1387E+20	5.4654E+17
Cs-137	9.0200E+03	1.0370E-01	4.5583E+23	1.3916E+18

DW Transport Group Inventory:

Time (h) =	0.6500	Atmosphere	Sump
Noble gases (atoms)	4.3156E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2190E-01	1.1440E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4017E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7723E-04
Total I (Ci)			6.6969E+06

DW to WW Transport Group Inventory:

Time (h) = 0.6500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.6500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.1437E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9728E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.3492E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.9534E-06	1.8274E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.6500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9928E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8387E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.6500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9928E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8387E-05

EAB Doses:

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Time (h) =	0.6600	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.8090E-07	1.6303E-04	5.9472E-06
Accumulated dose (rem)		1.5370E-05	3.5436E-03	1.2993E-04

LPZ Doses:

Time (h) =	0.6600	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.2694E-08	2.2193E-05	8.0962E-07
Accumulated dose (rem)		2.0924E-06	4.8241E-04	1.7687E-05

CR Doses:

Time (h) =	0.6600	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.5028E-09	1.6789E-05	5.4787E-07
Accumulated dose (rem)		8.7349E-08	2.6433E-04	8.6311E-06

DW Compartment Nuclide Inventory:

Time (h) =	0.6600	Ci	kg	Atoms	Decay
Rb-86		1.1626E+02	1.4288E-06	1.0005E+19	1.8071E+16
Rb-88		3.8786E+04	3.2130E-07	2.1988E+18	5.7090E+18
I-131		8.7001E+05	7.0176E-03	3.2260E+22	1.1174E+20
I-132		1.2433E+06	1.2045E-04	5.4952E+20	1.5763E+20
I-133		1.7683E+06	1.5610E-03	7.0682E+21	2.2958E+20
I-134		1.2306E+06	4.6130E-05	2.0731E+20	2.1080E+20
I-135		1.5941E+06	4.5391E-04	2.0248E+21	2.1233E+20
Xe-133		9.1865E+03	4.9078E-05	2.2222E+20	4.3140E+17
Xe-133m		6.4420E+02	1.4632E-06	6.6255E+18	3.0285E+16
Xe-135		1.1087E+05	4.3415E-05	1.9367E+20	5.1207E+18
Xe-135m		2.7267E+05	2.9953E-06	1.3361E+19	1.8481E+19
Cs-134		1.1637E+04	8.9946E-03	4.0423E+22	1.8079E+18
Cs-136		3.5456E+03	4.8378E-05	2.1422E+20	5.5126E+17
Cs-137		9.0350E+03	1.0387E-01	4.5659E+23	1.4036E+18

DW Transport Group Inventory:

Time (h) =	0.6600	Atmosphere	Sump
Noble gases (atoms)		4.3588E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2212E-01	1.1682E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4061E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7774E-04
Total I (Ci)			6.7063E+06

DW to WW Transport Group Inventory:

Time (h) =	0.6600	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.6600	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6600	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.3763E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9794E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6600	Filtered Transported

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Noble gases (atoms)	0.0000E+00	7.5600E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.9969E-06	1.8435E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.6600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0500E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8548E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.6600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0500E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8548E-05

EAB Doses:

Time (h) = 0.6700	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9759E-07	1.6745E-04	6.1066E-06
Accumulated dose (rem)	1.6068E-05	3.7111E-03	1.3603E-04

LPZ Doses:

Time (h) = 0.6700	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4967E-08	2.2796E-05	8.3131E-07
Accumulated dose (rem)	2.1873E-06	5.0521E-04	1.8519E-05

CR Doses:

Time (h) = 0.6700	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7531E-09	1.7572E-05	5.7338E-07
Accumulated dose (rem)	9.3102E-08	2.8190E-04	9.2045E-06

DW Compartment Nuclide Inventory:

Time (h) = 0.6700	Ci	kg	Atoms	Decay
Rb-86	1.1642E+02	1.4307E-06	1.0019E+19	1.8226E+16
Rb-88	3.8766E+04	3.2113E-07	2.1976E+18	5.7613E+18
I-131	8.7227E+05	7.0359E-03	3.2344E+22	1.1290E+20
I-132	1.2464E+06	1.2075E-04	5.5090E+20	1.5929E+20
I-133	1.7724E+06	1.5646E-03	7.0844E+21	2.3194E+20
I-134	1.2241E+06	4.5887E-05	2.0622E+20	2.1244E+20
I-135	1.5966E+06	4.5463E-04	2.0280E+21	2.1446E+20
Xe-133	9.2807E+03	4.9581E-05	2.2450E+20	4.4364E+17
Xe-133m	6.5077E+02	1.4782E-06	6.6930E+18	3.1143E+16
Xe-135	1.1202E+05	4.3867E-05	1.9568E+20	5.2684E+18
Xe-135m	2.7187E+05	2.9865E-06	1.3322E+19	1.8840E+19
Cs-134	1.1653E+04	9.0069E-03	4.0478E+22	1.8234E+18
Cs-136	3.5504E+03	4.8443E-05	2.1451E+20	5.5599E+17
Cs-137	9.0474E+03	1.0401E-01	4.5722E+23	1.4157E+18

DW Transport Group Inventory:

Time (h) = 0.6700	Atmosphere	Sump
Noble gases (atoms)	4.4020E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2229E-01	1.1924E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4095E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7815E-04
Total I (Ci)		6.7118E+06

DW to WW Transport Group Inventory:

Time (h) = 0.6700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 0.6700 Leakage Transport

Noble gases (atoms) 0.0000E+00
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.6112E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9860E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7729E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.0405E-06	1.8596E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1077E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8710E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1077E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8710E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1435E-07	1.7191E-04	6.2671E-06
Accumulated dose (rem)	1.6782E-05	3.8830E-03	1.4230E-04

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.7247E-08	2.3403E-05	8.5317E-07
Accumulated dose (rem)	2.2846E-06	5.2861E-04	1.9372E-05

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.0091E-09	1.8374E-05	5.9953E-07
Accumulated dose (rem)	9.9111E-08	3.0028E-04	9.8040E-06

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1654E+02	1.4323E-06	1.0030E+19	1.8381E+16
Rb-88	3.8735E+04	3.2088E-07	2.1959E+18	5.8135E+18
I-131	8.7413E+05	7.0508E-03	3.2413E+22	1.1406E+20
I-132	1.2490E+06	1.2100E-04	5.5202E+20	1.6095E+20
I-133	1.7756E+06	1.5675E-03	7.0974E+21	2.3431E+20
I-134	1.2171E+06	4.5624E-05	2.0504E+20	2.1406E+20

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I-135	1.5984E+06	4.5513E-04	2.0303E+21	2.1659E+20
Xe-133	9.3750E+03	5.0085E-05	2.2678E+20	4.5600E+17
Xe-133m	6.5735E+02	1.4931E-06	6.7607E+18	3.2010E+16
Xe-135	1.1318E+05	4.4318E-05	1.9770E+20	5.4175E+18
Xe-135m	2.7109E+05	2.9780E-06	1.3284E+19	1.9197E+19
Cs-134	1.1666E+04	9.0169E-03	4.0523E+22	1.8390E+18
Cs-136	3.5543E+03	4.8496E-05	2.1474E+20	5.6073E+17
Cs-137	9.0575E+03	1.0413E-01	4.5773E+23	1.4277E+18

DW Transport Group Inventory:

Time (h) =	0.6800	Atmosphere	Sump
Noble gases (atoms)	4.4452E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2244E-01	1.2166E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4124E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7848E-04
Total I (Ci)			6.7142E+06

DW to WW Transport Group Inventory:

Time (h) = 0.6800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.6800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8484E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9926E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.9879E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.0842E-06	1.8757E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.6800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1660E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8872E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.6800	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1660E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.8872E-05

EAB Doses:

Time (h) =	0.6900	Whole Body	Thyroid	TEDE
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Delta dose (rem)	7.3116E-07	1.7641E-04	6.4288E-06
Accumulated dose (rem)	1.7513E-05	4.0594E-03	1.4873E-04

LPZ Doses:

Time (h) =	0.6900	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.9536E-08	2.4015E-05	8.7519E-07
Accumulated dose (rem)		2.3841E-06	5.5262E-04	2.0247E-05

CR Doses:

Time (h) =	0.6900	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.2708E-09	1.9197E-05	6.2633E-07
Accumulated dose (rem)		1.0538E-07	3.1947E-04	1.0430E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.6900	Ci	kg	Atoms	Decay
Rb-86		1.1665E+02	1.4336E-06	1.0039E+19	1.8537E+16
Rb-88		3.8696E+04	3.2055E-07	2.1936E+18	5.8656E+18
I-131		8.7564E+05	7.0631E-03	3.2469E+22	1.1523E+20
I-132		1.2510E+06	1.2120E-04	5.5293E+20	1.6262E+20
I-133		1.7782E+06	1.5697E-03	7.1075E+21	2.3668E+20
I-134		1.2096E+06	4.5344E-05	2.0378E+20	2.1568E+20
I-135		1.5995E+06	4.5546E-04	2.0317E+21	2.1872E+20
Xe-133		9.4694E+03	5.0589E-05	2.2906E+20	4.6848E+17
Xe-133m		6.6394E+02	1.5081E-06	6.8285E+18	3.2886E+16
Xe-135		1.1433E+05	4.4770E-05	1.9971E+20	5.5682E+18
Xe-135m		2.7035E+05	2.9698E-06	1.3248E+19	1.9553E+19
Cs-134		1.1677E+04	9.0252E-03	4.0560E+22	1.8545E+18
Cs-136		3.5575E+03	4.8539E-05	2.1493E+20	5.6547E+17
Cs-137		9.0658E+03	1.0423E-01	4.5815E+23	1.4398E+18

DW Transport Group Inventory:

Time (h) =	0.6900	Atmosphere	Sump
Noble gases (atoms)		4.4885E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2256E-01	1.2409E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4147E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7874E-04
Total I (Ci)			6.7140E+06

DW to WW Transport Group Inventory:

Time (h) = 0.6900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.6900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.6900	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0088E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9992E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.6900	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.2051E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.1279E-06	1.8918E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.6900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2249E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9035E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.6900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2249E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9035E-05

EAB Doses:

Time (h) = 0.7000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4802E-07	1.8094E-04	6.5918E-06
Accumulated dose (rem)	1.8261E-05	4.2403E-03	1.5532E-04

LPZ Doses:

Time (h) = 0.7000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0183E-07	2.4632E-05	8.9737E-07
Accumulated dose (rem)	2.4860E-06	5.7726E-04	2.1144E-05

CR Doses:

Time (h) = 0.7000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5382E-09	2.0039E-05	6.5378E-07
Accumulated dose (rem)	1.1192E-07	3.3951E-04	1.1084E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.7000	Ci	kg	Atoms	Decay
Rb-86	1.1674E+02	1.4347E-06	1.0046E+19	1.8692E+16
Rb-88	3.8650E+04	3.2017E-07	2.1910E+18	5.9177E+18
I-131	8.7688E+05	7.0731E-03	3.2515E+22	1.1640E+20
I-132	1.2527E+06	1.2136E-04	5.5366E+20	1.6429E+20
I-133	1.7802E+06	1.5715E-03	7.1154E+21	2.3905E+20
I-134	1.2018E+06	4.5052E-05	2.0247E+20	2.1729E+20
I-135	1.6001E+06	4.5564E-04	2.0325E+21	2.2085E+20
Xe-133	9.5639E+03	5.1094E-05	2.3135E+20	4.8110E+17
Xe-133m	6.7053E+02	1.5231E-06	6.8963E+18	3.3770E+16
Xe-135	1.1548E+05	4.5221E-05	2.0172E+20	5.7204E+18
Xe-135m	2.6962E+05	2.9618E-06	1.3212E+19	1.9908E+19
Cs-134	1.1686E+04	9.0320E-03	4.0591E+22	1.8701E+18
Cs-136	3.5601E+03	4.8575E-05	2.1509E+20	5.7021E+17
Cs-137	9.0726E+03	1.0430E-01	4.5849E+23	1.4519E+18

DW Transport Group Inventory:

Time (h) = 0.7000	Atmosphere	Sump
Noble gases (atoms)	4.5318E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2265E-01	1.2651E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4165E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7894E-04
Total I (Ci)		6.7117E+06

DW to WW Transport Group Inventory:

Time (h) = 0.7000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

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WW to DW Transport Group Inventory:

Time (h) = 0.7000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.7000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0330E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0058E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.7000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.4244E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.1717E-06	1.9080E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.7000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2843E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9197E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.7000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2843E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9197E-05

EAB Doses:

Time (h) =	0.7100	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6494E-07	1.8551E-04	6.7559E-06
Accumulated dose (rem)		1.9026E-05	4.4259E-03	1.6208E-04

LPZ Doses:

Time (h) =	0.7100	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0414E-07	2.5254E-05	9.1971E-07
Accumulated dose (rem)		2.5901E-06	6.0251E-04	2.2064E-05

CR Doses:

Time (h) =	0.7100	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.8113E-09	2.0902E-05	6.8189E-07
Accumulated dose (rem)		1.1873E-07	3.6042E-04	1.1766E-05

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.7100			
Rb-86	1.1681E+02	1.4355E-06	1.0052E+19	1.8848E+16
Rb-88	3.8599E+04	3.1975E-07	2.1881E+18	5.9698E+18
I-131	8.7789E+05	7.0812E-03	3.2553E+22	1.1757E+20
I-132	1.2540E+06	1.2149E-04	5.5426E+20	1.6597E+20
I-133	1.7817E+06	1.5728E-03	7.1215E+21	2.4142E+20
I-134	1.1938E+06	4.4750E-05	2.0111E+20	2.1888E+20
I-135	1.6004E+06	4.5570E-04	2.0328E+21	2.2298E+20
Xe-133	9.6585E+03	5.1600E-05	2.3364E+20	4.9384E+17

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Xe-133m	6.7713E+02	1.5381E-06	6.9642E+18	3.4663E+16
Xe-135	1.1663E+05	4.5671E-05	2.0373E+20	5.8742E+18
Xe-135m	2.6892E+05	2.9541E-06	1.3178E+19	2.0263E+19
Cs-134	1.1693E+04	9.0375E-03	4.0616E+22	1.8857E+18
Cs-136	3.5622E+03	4.8604E-05	2.1522E+20	5.7495E+17
Cs-137	9.0782E+03	1.0437E-01	4.5878E+23	1.4640E+18

DW Transport Group Inventory:

Time (h) =	0.7100	Atmosphere	Sump	
Noble gases (atoms)	4.5751E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2273E-01	1.2894E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4179E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7909E-04	
Total I (Ci)			6.7077E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.7100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.7100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.7100	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0574E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0124E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.7100	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.6457E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.2155E-06	1.9241E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.7100	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3444E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9360E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.7100	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3444E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9360E-05

EAB Doses:

Time (h) =	0.7200	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8192E-07	1.9011E-04	6.9211E-06	
Accumulated dose (rem)	1.9808E-05	4.6160E-03	1.6900E-04	

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LPZ Doses:

Time (h) =	0.7200	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0645E-07	2.5881E-05	9.4221E-07
Accumulated dose (rem)		2.6965E-06	6.2839E-04	2.3006E-05

CR Doses:

Time (h) =	0.7200	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.0900E-09	2.1785E-05	7.1065E-07
Accumulated dose (rem)		1.2582E-07	3.8220E-04	1.2477E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.7200	Ci	kg	Atoms	Decay
Rb-86		1.1686E+02	1.4362E-06	1.0057E+19	1.9004E+16
Rb-88		3.8543E+04	3.1929E-07	2.1850E+18	6.0217E+18
I-131		8.7872E+05	7.0879E-03	3.2583E+22	1.1874E+20
I-132		1.2551E+06	1.2159E-04	5.5474E+20	1.6764E+20
I-133		1.7828E+06	1.5738E-03	7.1260E+21	2.4380E+20
I-134		1.1855E+06	4.4441E-05	1.9972E+20	2.2047E+20
I-135		1.6002E+06	4.5566E-04	2.0326E+21	2.2512E+20
Xe-133		9.7532E+03	5.2106E-05	2.3593E+20	5.0670E+17
Xe-133m		6.8374E+02	1.5531E-06	7.0321E+18	3.5565E+16
Xe-135		1.1778E+05	4.6121E-05	2.0574E+20	6.0295E+18
Xe-135m		2.6823E+05	2.9466E-06	1.3144E+19	2.0616E+19
Cs-134		1.1699E+04	9.0421E-03	4.0636E+22	1.9013E+18
Cs-136		3.5639E+03	4.8627E-05	2.1532E+20	5.7970E+17
Cs-137		9.0828E+03	1.0442E-01	4.5901E+23	1.4761E+18

DW Transport Group Inventory:

Time (h) =	0.7200	Atmosphere	Sump
Noble gases (atoms)		4.6184E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2280E-01	1.3137E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4191E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7921E-04
Total I (Ci)			6.7024E+06

DW to WW Transport Group Inventory:

Time (h) =	0.7200	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.7200	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.7200
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.0821E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.0190E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.7200
	Filtered Transported
Noble gases (atoms)	0.0000E+00 8.8692E+15
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	5.2593E-06 1.9403E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.7200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4050E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9522E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.7200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4050E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9522E-05

EAB Doses:

Time (h) =	0.7300	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.9895E-07	1.9475E-04	7.0876E-06
Accumulated dose (rem)		2.0607E-05	4.8107E-03	1.7608E-04

LPZ Doses:

Time (h) =	0.7300	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0876E-07	2.6512E-05	9.6487E-07
Accumulated dose (rem)		2.8053E-06	6.5490E-04	2.3971E-05

CR Doses:

Time (h) =	0.7300	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.3744E-09	2.2688E-05	7.4007E-07
Accumulated dose (rem)		1.3320E-07	4.0489E-04	1.3217E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.7300	Ci	kg	Atoms	Decay
Rb-86		1.1691E+02	1.4368E-06	1.0061E+19	1.9159E+16
Rb-88		3.8484E+04	3.1880E-07	2.1816E+18	6.0736E+18
I-131		8.7939E+05	7.0933E-03	3.2608E+22	1.1991E+20
I-132		1.2560E+06	1.2168E-04	5.5512E+20	1.6932E+20
I-133		1.7836E+06	1.5745E-03	7.1293E+21	2.4617E+20
I-134		1.1771E+06	4.4126E-05	1.9831E+20	2.2204E+20
I-135		1.5998E+06	4.5555E-04	2.0321E+21	2.2725E+20
Xe-133		9.8479E+03	5.2611E-05	2.3822E+20	5.1969E+17
Xe-133m		6.9034E+02	1.5681E-06	7.1000E+18	3.6476E+16
Xe-135		1.1893E+05	4.6570E-05	2.0774E+20	6.1863E+18
Xe-135m		2.6756E+05	2.9392E-06	1.3111E+19	2.0968E+19
Cs-134		1.1704E+04	9.0459E-03	4.0653E+22	1.9168E+18
Cs-136		3.5653E+03	4.8646E-05	2.1541E+20	5.8445E+17
Cs-137		9.0866E+03	1.0447E-01	4.5920E+23	1.4882E+18

DW Transport Group Inventory:

Time (h) =	0.7300	Atmosphere	Sump	
Noble gases (atoms)		4.6617E+20	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		1.2285E-01	1.3381E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)				1.4200E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				1.7930E-04
Total I (Ci)				6.6959E+06

DW to WW Transport Group Inventory:

Time (h) = 0.7300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

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Time (h) = 0.7300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.7300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1069E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0257E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.7300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.0948E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.3031E-06	1.9564E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.7300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4662E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9685E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.7300	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4662E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9685E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.7400			
Delta dose (rem)	8.1603E-07	1.9942E-04	7.2552E-06
Accumulated dose (rem)	2.1423E-05	5.0101E-03	1.8334E-04

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.7400			
Delta dose (rem)	1.1109E-07	2.7149E-05	9.8769E-07
Accumulated dose (rem)	2.9164E-06	6.8205E-04	2.4959E-05

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.7400			
Delta dose (rem)	7.6644E-09	2.3612E-05	7.7015E-07
Accumulated dose (rem)	1.4086E-07	4.2850E-04	1.3987E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.7400	Ci	kg	Atoms	Decay
Rb-86	1.1695E+02	1.4373E-06	1.0064E+19	1.9315E+16
Rb-88	3.8422E+04	3.1828E-07	2.1781E+18	6.1254E+18
I-131	8.7994E+05	7.0977E-03	3.2628E+22	1.2108E+20
I-132	1.2567E+06	1.2174E-04	5.5543E+20	1.7099E+20
I-133	1.7842E+06	1.5750E-03	7.1316E+21	2.4855E+20
I-134	1.1686E+06	4.3807E-05	1.9687E+20	2.2361E+20
I-135	1.5992E+06	4.5537E-04	2.0313E+21	2.2938E+20
Xe-133	9.9426E+03	5.3118E-05	2.4051E+20	5.3281E+17
Xe-133m	6.9695E+02	1.5831E-06	7.1680E+18	3.7395E+16
Xe-135	1.2007E+05	4.7019E-05	2.0974E+20	6.3447E+18

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Xe-135m	2.6691E+05	2.9320E-06	1.3079E+19	2.1320E+19
Cs-134	1.1708E+04	9.0489E-03	4.0667E+22	1.9324E+18
Cs-136	3.5665E+03	4.8662E-05	2.1548E+20	5.8920E+17
Cs-137	9.0897E+03	1.0450E-01	4.5936E+23	1.5003E+18

DW Transport Group Inventory:

Time (h) =	0.7400	Atmosphere	Sump	
Noble gases (atoms)	4.7050E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2289E-01	1.3624E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4207E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7936E-04	
Total I (Ci)			6.6886E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.7400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.7400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.7400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1321E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0323E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.7400	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.3226E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.3470E-06	1.9726E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.7400	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.5279E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9848E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.7400	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.5279E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	1.9848E-05

EAB Doses:

Time (h) =	0.7500	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.3316E-07	2.0413E-04	7.4240E-06
Accumulated dose (rem)		2.2256E-05	5.2143E-03	1.9076E-04

LPZ Doses:

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Time (h) =	0.7500	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1342E-07	2.7790E-05	1.0107E-06
Accumulated dose (rem)		3.0298E-06	7.0984E-04	2.5970E-05

CR Doses:

Time (h) =	0.7500	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.9601E-09	2.4556E-05	8.0090E-07
Accumulated dose (rem)		1.4882E-07	4.5306E-04	1.4788E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.7500	Ci	kg	Atoms	Decay
Rb-86		1.1698E+02	1.4376E-06	1.0067E+19	1.9471E+16
Rb-88		3.8357E+04	3.1775E-07	2.1744E+18	6.1771E+18
I-131		8.8038E+05	7.1013E-03	3.2645E+22	1.2225E+20
I-132		1.2572E+06	1.2180E-04	5.5567E+20	1.7267E+20
I-133		1.7846E+06	1.5753E-03	7.1330E+21	2.5093E+20
I-134		1.1600E+06	4.3485E-05	1.9543E+20	2.2516E+20
I-135		1.5984E+06	4.5513E-04	2.0303E+21	2.3151E+20
Xe-133		1.0037E+04	5.3624E-05	2.4280E+20	5.4605E+17
Xe-133m		7.0356E+02	1.5981E-06	7.2359E+18	3.8323E+16
Xe-135		1.2122E+05	4.7467E-05	2.1174E+20	6.5045E+18
Xe-135m		2.6627E+05	2.9250E-06	1.3048E+19	2.1671E+19
Cs-134		1.1711E+04	9.0514E-03	4.0678E+22	1.9480E+18
Cs-136		3.5674E+03	4.8674E-05	2.1553E+20	5.9395E+17
Cs-137		9.0922E+03	1.0453E-01	4.5948E+23	1.5124E+18

DW Transport Group Inventory:

Time (h) =	0.7500	Atmosphere	Sump
Noble gases (atoms)		4.7483E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2293E-01	1.3867E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4213E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7940E-04
Total I (Ci)			6.6806E+06

DW to WW Transport Group Inventory:

Time (h) = 0.7500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.7500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.7500
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.1574E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.0389E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.7500
	Filtered Transported
Noble gases (atoms)	0.0000E+00 9.5524E+15
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	5.3908E-06 1.9888E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5902E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0011E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5902E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0011E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5034E-07	2.0888E-04	7.5940E-06
Accumulated dose (rem)	2.3106E-05	5.4232E-03	1.9836E-04

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1576E-07	2.8435E-05	1.0338E-06
Accumulated dose (rem)	3.1456E-06	7.3828E-04	2.7003E-05

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.2615E-09	2.5521E-05	8.3232E-07
Accumulated dose (rem)	1.5708E-07	4.7858E-04	1.5620E-05

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1700E+02	1.4380E-06	1.0069E+19	1.9627E+16
Rb-88	3.8291E+04	3.1719E-07	2.1707E+18	6.2287E+18
I-131	8.8074E+05	7.1042E-03	3.2658E+22	1.2343E+20
I-132	1.2576E+06	1.2184E-04	5.5586E+20	1.7435E+20
I-133	1.7847E+06	1.5755E-03	7.1337E+21	2.5331E+20
I-134	1.1514E+06	4.3162E-05	1.9397E+20	2.2670E+20
I-135	1.5974E+06	4.5486E-04	2.0290E+21	2.3364E+20
Xe-133	1.0132E+04	5.4130E-05	2.4510E+20	5.5942E+17
Xe-133m	7.1017E+02	1.6131E-06	7.3039E+18	3.9260E+16
Xe-135	1.2236E+05	4.7914E-05	2.1374E+20	6.6659E+18
Xe-135m	2.6565E+05	2.9181E-06	1.3017E+19	2.2021E+19
Cs-134	1.1714E+04	9.0535E-03	4.0688E+22	1.9636E+18
Cs-136	3.5681E+03	4.8684E-05	2.1558E+20	5.9870E+17
Cs-137	9.0943E+03	1.0455E-01	4.5959E+23	1.5245E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	4.7915E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2296E-01	1.4111E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4217E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7942E-04
Total I (Ci)			6.6719E+06

DW to WW Transport Group Inventory:

Time (h) = 0.7600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.7600 Leakage Transport

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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.7600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1830E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0455E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.7600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7844E+15
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.4347E-06	2.0050E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.7600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6531E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0173E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.7600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6531E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0173E-05

EAB Doses:

Time (h) = 0.7700	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6757E-07	2.1366E-04	7.7651E-06
Accumulated dose (rem)	2.3974E-05	5.6368E-03	2.0612E-04

LPZ Doses:

Time (h) = 0.7700	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1811E-07	2.9086E-05	1.0571E-06
Accumulated dose (rem)	3.2637E-06	7.6736E-04	2.8060E-05

CR Doses:

Time (h) = 0.7700	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5684E-09	2.6506E-05	8.6441E-07
Accumulated dose (rem)	1.6565E-07	5.0508E-04	1.6485E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.7700	Ci	kg	Atoms	Decay
Rb-86	1.1702E+02	1.4382E-06	1.0071E+19	1.9783E+16
Rb-88	3.8222E+04	3.1663E-07	2.1668E+18	6.2802E+18
I-131	8.8103E+05	7.1065E-03	3.2669E+22	1.2460E+20
I-132	1.2580E+06	1.2187E-04	5.5601E+20	1.7603E+20
I-133	1.7848E+06	1.5755E-03	7.1339E+21	2.5568E+20
I-134	1.1428E+06	4.2837E-05	1.9252E+20	2.2823E+20
I-135	1.5963E+06	4.5454E-04	2.0276E+21	2.3576E+20
Xe-133	1.0227E+04	5.4636E-05	2.4739E+20	5.7292E+17
Xe-133m	7.1677E+02	1.6281E-06	7.3718E+18	4.0206E+16
Xe-135	1.2350E+05	4.8360E-05	2.1573E+20	6.8289E+18
Xe-135m	2.6503E+05	2.9114E-06	1.2987E+19	2.2370E+19
Cs-134	1.1716E+04	9.0552E-03	4.0695E+22	1.9793E+18

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Cs-136	3.5687E+03	4.8692E-05	2.1561E+20	6.0346E+17
Cs-137	9.0960E+03	1.0457E-01	4.5967E+23	1.5366E+18

DW Transport Group Inventory:

Time (h) =	0.7700	Atmosphere	Sump
Noble gases (atoms)	4.8347E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2298E-01	1.4354E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	1.4220E-04	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	1.7943E-04	
Total I (Ci)		6.6628E+06	

DW to WW Transport Group Inventory:

Time (h) =	0.7700	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.7700	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.7700	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2088E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0522E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.7700	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0018E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.4786E-06	2.0212E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.7700	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7166E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0336E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.7700	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.7166E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0336E-05

EAB Doses:

Time (h) =	0.7800	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8485E-07	2.1847E-04	7.9374E-06	
Accumulated dose (rem)	2.4859E-05	5.8553E-03	2.1406E-04	

LPZ Doses:

Time (h) =	0.7800	Whole Body	Thyroid	TEDE
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Delta dose (rem)	1.2046E-07	2.9741E-05	1.0806E-06
Accumulated dose (rem)	3.3841E-06	7.9710E-04	2.9141E-05

CR Doses:

Time (h) =	0.7800	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.8810E-09	2.7513E-05	8.9718E-07
Accumulated dose (rem)		1.7453E-07	5.3260E-04	1.7382E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.7800	Ci	kg	Atoms	Decay
Rb-86		1.1704E+02	1.4384E-06	1.0072E+19	1.9938E+16
Rb-88		3.8153E+04	3.1605E-07	2.1629E+18	6.3316E+18
I-131		8.8126E+05	7.1084E-03	3.2678E+22	1.2577E+20
I-132		1.2582E+06	1.2190E-04	5.5612E+20	1.7771E+20
I-133		1.7847E+06	1.5755E-03	7.1336E+21	2.5806E+20
I-134		1.1341E+06	4.2512E-05	1.9106E+20	2.2974E+20
I-135		1.5951E+06	4.5420E-04	2.0261E+21	2.3789E+20
Xe-133		1.0322E+04	5.5142E-05	2.4968E+20	5.8654E+17
Xe-133m		7.2338E+02	1.6431E-06	7.4398E+18	4.1161E+16
Xe-135		1.2464E+05	4.8805E-05	2.1771E+20	6.9933E+18
Xe-135m		2.6443E+05	2.9048E-06	1.2958E+19	2.2718E+19
Cs-134		1.1718E+04	9.0566E-03	4.0702E+22	1.9949E+18
Cs-136		3.5692E+03	4.8699E-05	2.1564E+20	6.0821E+17
Cs-137		9.0974E+03	1.0459E-01	4.5975E+23	1.5487E+18

DW Transport Group Inventory:

Time (h) =	0.7800	Atmosphere	Sump
Noble gases (atoms)		4.8779E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2300E-01	1.4598E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4222E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7942E-04
Total I (Ci)			6.6534E+06

DW to WW Transport Group Inventory:

Time (h) = 0.7800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.7800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.7800	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2349E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0588E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.7800	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0255E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.5225E-06	2.0374E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Pathway

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Time (h) =	0.7800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7806E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.0499E-05	

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	0.7800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7806E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.0499E-05	

EAB Doses:

Time (h) =	0.7900	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0218E-07	2.2332E-04	8.1108E-06	
Accumulated dose (rem)	2.5761E-05	6.0786E-03	2.2217E-04	

LPZ Doses:

Time (h) =	0.7900	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2282E-07	3.0401E-05	1.1042E-06	
Accumulated dose (rem)	3.5070E-06	8.2751E-04	3.0245E-05	

CR Doses:

Time (h) =	0.7900	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1992E-09	2.8540E-05	9.3063E-07	
Accumulated dose (rem)	1.8373E-07	5.6114E-04	1.8312E-05	

DW Compartment Nuclide Inventory:

Time (h) =	0.7900	Ci	kg	Atoms	Decay
Rb-86	1.1705E+02	1.4386E-06	1.0073E+19	2.0094E+16	
Rb-88	3.8082E+04	3.1547E-07	2.1589E+18	6.3829E+18	
I-131	8.8145E+05	7.1099E-03	3.2684E+22	1.2695E+20	
I-132	1.2584E+06	1.2192E-04	5.5621E+20	1.7938E+20	
I-133	1.7846E+06	1.5753E-03	7.1330E+21	2.6044E+20	
I-134	1.1254E+06	4.2188E-05	1.8960E+20	2.3125E+20	
I-135	1.5938E+06	4.5383E-04	2.0245E+21	2.4001E+20	
Xe-133	1.0416E+04	5.5648E-05	2.5197E+20	6.0028E+17	
Xe-133m	7.2998E+02	1.6581E-06	7.5077E+18	4.2125E+16	
Xe-135	1.2577E+05	4.9250E-05	2.1970E+20	7.1592E+18	
Xe-135m	2.6384E+05	2.8983E-06	1.2929E+19	2.3065E+19	
Cs-134	1.1719E+04	9.0577E-03	4.0707E+22	2.0105E+18	
Cs-136	3.5695E+03	4.8704E-05	2.1566E+20	6.1297E+17	
Cs-137	9.0985E+03	1.0460E-01	4.5980E+23	1.5609E+18	

DW Transport Group Inventory:

Time (h) =	0.7900	Atmosphere	Sump	
Noble gases (atoms)	4.9210E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2301E-01	1.4841E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4223E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7941E-04	
Total I (Ci)			6.6437E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.7900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.7900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.7900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2612E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0654E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.7900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0493E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.5664E-06	2.0536E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.7900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8452E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0662E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.7900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8452E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0662E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.8000			
Delta dose (rem)	9.1955E-07	2.2820E-04	8.2854E-06
Accumulated dose (rem)	2.6681E-05	6.3068E-03	2.3046E-04

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.8000			
Delta dose (rem)	1.2518E-07	3.1066E-05	1.1279E-06
Accumulated dose (rem)	3.6321E-06	8.5857E-04	3.1373E-05

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 0.8000			
Delta dose (rem)	9.5231E-09	2.9589E-05	9.6476E-07
Accumulated dose (rem)	1.9325E-07	5.9072E-04	1.9277E-05

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
0.8000				
Rb-86	1.1706E+02	1.4387E-06	1.0074E+19	2.0250E+16
Rb-88	3.8011E+04	3.1487E-07	2.1548E+18	6.4342E+18
I-131	8.8159E+05	7.1111E-03	3.2690E+22	1.2812E+20
I-132	1.2586E+06	1.2193E-04	5.5627E+20	1.8106E+20
I-133	1.7843E+06	1.5751E-03	7.1320E+21	2.6282E+20
I-134	1.1168E+06	4.1864E-05	1.8814E+20	2.3274E+20
I-135	1.5924E+06	4.5345E-04	2.0228E+21	2.4214E+20
Xe-133	1.0511E+04	5.6154E-05	2.5426E+20	6.1416E+17
Xe-133m	7.3658E+02	1.6731E-06	7.5756E+18	4.3097E+16
Xe-135	1.2690E+05	4.9694E-05	2.2168E+20	7.3267E+18
Xe-135m	2.6326E+05	2.8919E-06	1.2900E+19	2.3412E+19
Cs-134	1.1720E+04	9.0587E-03	4.0711E+22	2.0261E+18
Cs-136	3.5698E+03	4.8708E-05	2.1568E+20	6.1772E+17
Cs-137	9.0995E+03	1.0461E-01	4.5985E+23	1.5730E+18

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DW Transport Group Inventory:

Time (h) =	0.8000	Atmosphere	Sump
Noble gases (atoms)	4.9641E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2303E-01	1.5085E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4224E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7939E-04
Total I (Ci)			6.6337E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

		Pathway
Time (h) =	0.8000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.2877E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0720E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

		Pathway
Time (h) =	0.8000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0733E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.6103E-06	2.0698E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

		Pathway
Time (h) =	0.8000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.9104E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0825E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

		Pathway
Time (h) =	0.8000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.9104E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0825E-05

EAB Doses:

Time (h) =	0.8100	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.3697E-07	2.3312E-04	8.4611E-06
Accumulated dose (rem)		2.7617E-05	6.5399E-03	2.3892E-04

LPZ Doses:

Time (h) =	0.8100	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2755E-07	3.1735E-05	1.1518E-06
Accumulated dose (rem)		3.7597E-06	8.9031E-04	3.2525E-05

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CR Doses:

Time (h) =	0.8100	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.8525E-09	3.0659E-05	9.9958E-07
Accumulated dose (rem)		2.0311E-07	6.2138E-04	2.0277E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.8100	Ci	kg	Atoms	Decay
Rb-86		1.1707E+02	1.4388E-06	1.0075E+19	2.0406E+16
Rb-88		3.7938E+04	3.1427E-07	2.1507E+18	6.4853E+18
I-131		8.8171E+05	7.1120E-03	3.2694E+22	1.2930E+20
I-132		1.2587E+06	1.2194E-04	5.5631E+20	1.8274E+20
I-133		1.7840E+06	1.5749E-03	7.1308E+21	2.6519E+20
I-134		1.1082E+06	4.1541E-05	1.8669E+20	2.3422E+20
I-135		1.5910E+06	4.5305E-04	2.0210E+21	2.4426E+20
Xe-133		1.0606E+04	5.6660E-05	2.5655E+20	6.2816E+17
Xe-133m		7.4318E+02	1.6881E-06	7.6435E+18	4.4078E+16
Xe-135		1.2803E+05	5.0136E-05	2.2365E+20	7.4957E+18
Xe-135m		2.6269E+05	2.8856E-06	1.2872E+19	2.3758E+19
Cs-134		1.1721E+04	9.0594E-03	4.0714E+22	2.0417E+18
Cs-136		3.5701E+03	4.8711E-05	2.1569E+20	6.2248E+17
Cs-137		9.1002E+03	1.0462E-01	4.5989E+23	1.5851E+18

DW Transport Group Inventory:

Time (h) =	0.8100	Atmosphere	Sump
Noble gases (atoms)		5.0072E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2304E-01	1.5328E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4224E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7937E-04
Total I (Ci)			6.6236E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.8100
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.3144E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.0787E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	0.8100
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.0976E+16
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	5.6542E-06 2.0860E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) =	0.8100
	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.9762E+16

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0988E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.8100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9762E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0988E-05

EAB Doses:

Time (h) = 0.8200	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.5444E-07	2.3807E-04	8.6379E-06
Accumulated dose (rem)	2.8572E-05	6.7780E-03	2.4756E-04

LPZ Doses:

Time (h) = 0.8200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2993E-07	3.2409E-05	1.1759E-06
Accumulated dose (rem)	3.8896E-06	9.2272E-04	3.3701E-05

CR Doses:

Time (h) = 0.8200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0187E-08	3.1750E-05	1.0351E-06
Accumulated dose (rem)	2.1329E-07	6.5313E-04	2.1312E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.8200	Ci	kg	Atoms	Decay
Rb-86	1.1708E+02	1.4389E-06	1.0076E+19	2.0562E+16
Rb-88	3.7865E+04	3.1367E-07	2.1465E+18	6.5363E+18
I-131	8.8180E+05	7.1127E-03	3.2698E+22	1.3047E+20
I-132	1.2587E+06	1.2195E-04	5.5634E+20	1.8442E+20
I-133	1.7837E+06	1.5745E-03	7.1294E+21	2.6757E+20
I-134	1.0996E+06	4.1219E-05	1.8524E+20	2.3569E+20
I-135	1.5896E+06	4.5263E-04	2.0191E+21	2.4638E+20
Xe-133	1.0700E+04	5.7165E-05	2.5884E+20	6.4229E+17
Xe-133m	7.4978E+02	1.7031E-06	7.7113E+18	4.5068E+16
Xe-135	1.2916E+05	5.0578E-05	2.2562E+20	7.6662E+18
Xe-135m	2.6212E+05	2.8794E-06	1.2845E+19	2.4103E+19
Cs-134	1.1722E+04	9.0601E-03	4.0717E+22	2.0573E+18
Cs-136	3.5702E+03	4.8713E-05	2.1570E+20	6.2723E+17
Cs-137	9.1009E+03	1.0463E-01	4.5992E+23	1.5972E+18

DW Transport Group Inventory:

Time (h) = 0.8200	Atmosphere	Sump
Noble gases (atoms)	5.0502E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2304E-01	1.5572E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4224E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7933E-04
Total I (Ci)		6.6134E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8200 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.8200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3414E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0853E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.8200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1220E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.6981E-06	2.1022E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.8200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0425E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1151E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.8200	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0425E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1151E-05

EAB Doses:

Time (h) =	0.8300	Whole Body	Thyroid	TEDE
Delta dose (rem)		9.7195E-07	2.4305E-04	8.8159E-06
Accumulated dose (rem)		2.9544E-05	7.0210E-03	2.5637E-04

LPZ Doses:

Time (h) =	0.8300	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3232E-07	3.3088E-05	1.2001E-06
Accumulated dose (rem)		4.0219E-06	9.5580E-04	3.4901E-05

CR Doses:

Time (h) =	0.8300	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0528E-08	3.2862E-05	1.0713E-06
Accumulated dose (rem)		2.2382E-07	6.8599E-04	2.2383E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.8300	Ci	kg	Atoms	Decay
Rb-86		1.1708E+02	1.4389E-06	1.0076E+19	2.0718E+16
Rb-88		3.7791E+04	3.1306E-07	2.1424E+18	6.5873E+18
I-131		8.8187E+05	7.1133E-03	3.2700E+22	1.3164E+20
I-132		1.2588E+06	1.2195E-04	5.5636E+20	1.8610E+20
I-133		1.7833E+06	1.5742E-03	7.1278E+21	2.6995E+20
I-134		1.0910E+06	4.0899E-05	1.8381E+20	2.3715E+20
I-135		1.5881E+06	4.5221E-04	2.0172E+21	2.4849E+20
Xe-133		1.0795E+04	5.7671E-05	2.6113E+20	6.5654E+17
Xe-133m		7.5638E+02	1.7180E-06	7.7792E+18	4.6066E+16
Xe-135		1.3029E+05	5.1019E-05	2.2759E+20	7.8381E+18
Xe-135m		2.6157E+05	2.8734E-06	1.2818E+19	2.4448E+19
Cs-134		1.1723E+04	9.0606E-03	4.0719E+22	2.0729E+18
Cs-136		3.5703E+03	4.8715E-05	2.1571E+20	6.3199E+17
Cs-137		9.1014E+03	1.0464E-01	4.5995E+23	1.6093E+18

DW Transport Group Inventory:

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Time (h) =	0.8300	Atmosphere	Sump	
Noble gases (atoms)	5.0932E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2305E-01	1.5816E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.4223E-04	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.7930E-04	
Total I (Ci)			6.6030E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.8300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.8300	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.3686E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0919E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.8300	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1467E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.7420E-06	2.1184E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.8300	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1094E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1314E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.8300	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1094E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1314E-05

EAB Doses:

Time (h) =	0.8400	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.8950E-07	2.4807E-04	8.9949E-06	
Accumulated dose (rem)	3.0533E-05	7.2691E-03	2.6537E-04	

LPZ Doses:

Time (h) =	0.8400	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3471E-07	3.3771E-05	1.2245E-06	
Accumulated dose (rem)	4.1566E-06	9.8957E-04	3.6125E-05	

CR Doses:

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Time (h) =	0.8400	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0874E-08	3.3996E-05	1.1082E-06
Accumulated dose (rem)		2.3470E-07	7.1999E-04	2.3491E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.8400	Ci	kg	Atoms	Decay
Rb-86		1.1709E+02	1.4390E-06	1.0076E+19	2.0874E+16
Rb-88		3.7717E+04	3.1244E-07	2.1382E+18	6.6381E+18
I-131		8.8192E+05	7.1137E-03	3.2702E+22	1.3282E+20
I-132		1.2588E+06	1.2195E-04	5.5636E+20	1.8778E+20
I-133		1.7828E+06	1.5738E-03	7.1261E+21	2.7232E+20
I-134		1.0826E+06	4.0580E-05	1.8237E+20	2.3860E+20
I-135		1.5866E+06	4.5177E-04	2.0153E+21	2.5061E+20
Xe-133		1.0890E+04	5.8176E-05	2.6342E+20	6.7092E+17
Xe-133m		7.6297E+02	1.7330E-06	7.8470E+18	4.7074E+16
Xe-135		1.3141E+05	5.1459E-05	2.2955E+20	8.0116E+18
Xe-135m		2.6103E+05	2.8674E-06	1.2791E+19	2.4791E+19
Cs-134		1.1723E+04	9.0610E-03	4.0721E+22	2.0885E+18
Cs-136		3.5704E+03	4.8716E-05	2.1572E+20	6.3674E+17
Cs-137		9.1018E+03	1.0464E-01	4.5997E+23	1.6215E+18

DW Transport Group Inventory:

Time (h) =	0.8400	Atmosphere	Sump
Noble gases (atoms)		5.1361E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2305E-01	1.6059E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4223E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7926E-04
Total I (Ci)			6.5926E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.8400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.3961E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.0986E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.8400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1716E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.7859E-06	2.1346E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.8400	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.1769E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 2.1477E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.8400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1769E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1477E-05

EAB Doses:

Time (h) = 0.8500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0071E-06	2.5312E-04	9.1751E-06
Accumulated dose (rem)	3.1540E-05	7.5222E-03	2.7454E-04

LPZ Doses:

Time (h) = 0.8500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3710E-07	3.4459E-05	1.2491E-06
Accumulated dose (rem)	4.2937E-06	1.0240E-03	3.7375E-05

CR Doses:

Time (h) = 0.8500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1226E-08	3.5151E-05	1.1458E-06
Accumulated dose (rem)	2.4592E-07	7.5514E-04	2.4637E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.8500	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.1030E+16
Rb-88	3.7643E+04	3.1183E-07	2.1339E+18	6.6888E+18
I-131	8.8196E+05	7.1140E-03	3.2704E+22	1.3399E+20
I-132	1.2588E+06	1.2195E-04	5.5636E+20	1.8946E+20
I-133	1.7824E+06	1.5734E-03	7.1242E+21	2.7469E+20
I-134	1.0741E+06	4.0264E-05	1.8095E+20	2.4004E+20
I-135	1.5850E+06	4.5133E-04	2.0133E+21	2.5272E+20
Xe-133	1.0984E+04	5.8682E-05	2.6571E+20	6.8542E+17
Xe-133m	7.6956E+02	1.7480E-06	7.9147E+18	4.8090E+16
Xe-135	1.3254E+05	5.1899E-05	2.3151E+20	8.1866E+18
Xe-135m	2.6049E+05	2.8615E-06	1.2765E+19	2.5134E+19
Cs-134	1.1724E+04	9.0613E-03	4.0723E+22	2.1042E+18
Cs-136	3.5705E+03	4.8717E-05	2.1572E+20	6.4150E+17
Cs-137	9.1022E+03	1.0464E-01	4.5999E+23	1.6336E+18

DW Transport Group Inventory:

Time (h) = 0.8500	Atmosphere	Sump	
Noble gases (atoms)	5.1790E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2306E-01	1.6303E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4222E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7922E-04
Total I (Ci)			6.5822E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) =	0.8500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4237E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1052E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.8500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1967E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.8298E-06	2.1508E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.8500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2449E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1640E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.8500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2449E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1640E-05

EAB Doses:

Time (h) =	0.8600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.0247E-06	2.5821E-04	9.3564E-06
Accumulated dose (rem)		3.2565E-05	7.7804E-03	2.8390E-04

LPZ Doses:

Time (h) =	0.8600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.3950E-07	3.5151E-05	1.2737E-06
Accumulated dose (rem)		4.4332E-06	1.0592E-03	3.8648E-05

CR Doses:

Time (h) =	0.8600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1583E-08	3.6328E-05	1.1840E-06
Accumulated dose (rem)		2.5751E-07	7.9147E-04	2.5821E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.8600	Ci	kg	Atoms	Decay
Rb-86		1.1709E+02	1.4390E-06	1.0077E+19	2.1186E+16
Rb-88		3.7568E+04	3.1120E-07	2.1297E+18	6.7395E+18
I-131		8.8199E+05	7.1142E-03	3.2705E+22	1.3517E+20
I-132		1.2587E+06	1.2195E-04	5.5635E+20	1.9114E+20
I-133		1.7819E+06	1.5730E-03	7.1223E+21	2.7707E+20
I-134		1.0657E+06	3.9949E-05	1.7954E+20	2.4146E+20
I-135		1.5834E+06	4.5089E-04	2.0113E+21	2.5483E+20
Xe-133		1.1079E+04	5.9187E-05	2.6799E+20	7.0005E+17
Xe-133m		7.7615E+02	1.7629E-06	7.9825E+18	4.9115E+16
Xe-135		1.3365E+05	5.2337E-05	2.3347E+20	8.3631E+18
Xe-135m		2.5996E+05	2.8557E-06	1.2739E+19	2.5477E+19
Cs-134		1.1724E+04	9.0616E-03	4.0724E+22	2.1198E+18
Cs-136		3.5705E+03	4.8717E-05	2.1572E+20	6.4626E+17
Cs-137		9.1024E+03	1.0465E-01	4.6000E+23	1.6457E+18

DW Transport Group Inventory:

Time (h) =	0.8600	Atmosphere	Sump
Noble gases (atoms)		5.2218E+20	0.0000E+00

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.6547E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4220E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7918E-04
Total I (Ci)		6.5718E+06

DW to WW Transport Group Inventory:
Time (h) = 0.8600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 0.8600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.8600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4516E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1118E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.8600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2220E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.8737E-06	2.1670E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.8600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3135E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1803E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.8600	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3135E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1803E-05

EAB Doses:

Time (h) = 0.8700	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0424E-06	2.6333E-04	9.5388E-06
Accumulated dose (rem)	3.3608E-05	8.0438E-03	2.9344E-04

LPZ Doses:

Time (h) = 0.8700	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4191E-07	3.5848E-05	1.2986E-06
Accumulated dose (rem)	4.5752E-06	1.0950E-03	3.9947E-05

CR Doses:

Time (h) = 0.8700	Whole Body	Thyroid	TEDE
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Delta dose (rem) 1.1946E-08 3.7527E-05 1.2230E-06
 Accumulated dose (rem) 2.6945E-07 8.2900E-04 2.7044E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.8700	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.1342E+16
Rb-88	3.7492E+04	3.1058E-07	2.1254E+18	6.7900E+18
I-131	8.8200E+05	7.1144E-03	3.2705E+22	1.3634E+20
I-132	1.2587E+06	1.2194E-04	5.5633E+20	1.9282E+20
I-133	1.7814E+06	1.5725E-03	7.1202E+21	2.7944E+20
I-134	1.0574E+06	3.9637E-05	1.7813E+20	2.4288E+20
I-135	1.5819E+06	4.5044E-04	2.0093E+21	2.5694E+20
Xe-133	1.1173E+04	5.9691E-05	2.7028E+20	7.1481E+17
Xe-133m	7.8273E+02	1.7779E-06	8.0502E+18	5.0149E+16
Xe-135	1.3477E+05	5.2775E-05	2.3542E+20	8.5410E+18
Xe-135m	2.5944E+05	2.8500E-06	1.2713E+19	2.5818E+19
Cs-134	1.1724E+04	9.0618E-03	4.0725E+22	2.1354E+18
Cs-136	3.5705E+03	4.8717E-05	2.1572E+20	6.5101E+17
Cs-137	9.1027E+03	1.0465E-01	4.6001E+23	1.6578E+18

DW Transport Group Inventory:

Time (h) = 0.8700	Atmosphere	Sump
Noble gases (atoms)	5.2646E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.6790E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4219E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7913E-04
Total I (Ci)		6.5613E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8700 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 0.8700	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4798E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1185E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 0.8700	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2475E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	5.9176E-06	2.1832E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 0.8700	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3827E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1966E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.8700	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3827E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1966E-05

EAB Doses:

Time (h) = 0.8800	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0601E-06	2.6848E-04	9.7223E-06
Accumulated dose (rem)	3.4668E-05	8.3123E-03	3.0316E-04

LPZ Doses:

Time (h) = 0.8800	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4432E-07	3.6550E-05	1.3235E-06
Accumulated dose (rem)	4.7195E-06	1.1316E-03	4.1270E-05

CR Doses:

Time (h) = 0.8800	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2315E-08	3.8747E-05	1.2627E-06
Accumulated dose (rem)	2.8177E-07	8.6774E-04	2.8307E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.8800	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.1498E+16
Rb-88	3.7417E+04	3.0995E-07	2.1211E+18	6.8404E+18
I-131	8.8201E+05	7.1145E-03	3.2706E+22	1.3752E+20
I-132	1.2587E+06	1.2194E-04	5.5631E+20	1.9450E+20
I-133	1.7808E+06	1.5721E-03	7.1182E+21	2.8181E+20
I-134	1.0491E+06	3.9326E-05	1.7674E+20	2.4428E+20
I-135	1.5803E+06	4.4998E-04	2.0073E+21	2.5904E+20
Xe-133	1.1268E+04	6.0196E-05	2.7256E+20	7.2969E+17
Xe-133m	7.8931E+02	1.7929E-06	8.1179E+18	5.1191E+16
Xe-135	1.3589E+05	5.3211E-05	2.3737E+20	8.7205E+18
Xe-135m	2.5893E+05	2.8444E-06	1.2688E+19	2.6159E+19
Cs-134	1.1725E+04	9.0620E-03	4.0726E+22	2.1510E+18
Cs-136	3.5705E+03	4.8717E-05	2.1572E+20	6.5577E+17
Cs-137	9.1029E+03	1.0465E-01	4.6002E+23	1.6700E+18

DW Transport Group Inventory:

Time (h) = 0.8800	Atmosphere	Sump
Noble gases (atoms)	5.3074E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.7034E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4217E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7908E-04
Total I (Ci)		6.5509E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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Time (h) =	0.8800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5082E+17	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.1251E-04	

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway		
Time (h) =	0.8800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2732E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	5.9615E-06	2.1994E-06	

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway		
Time (h) =	0.8800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4524E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.2129E-05	

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	0.8800	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4524E+16	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	0.0000E+00	2.2129E-05	

EAB Doses:

Time (h) =	0.8900	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0779E-06	2.7367E-04	9.9070E-06	
Accumulated dose (rem)	3.5746E-05	8.5859E-03	3.1307E-04	

LPZ Doses:

Time (h) =	0.8900	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4674E-07	3.7256E-05	1.3487E-06	
Accumulated dose (rem)	4.8662E-06	1.1688E-03	4.2619E-05	

CR Doses:

Time (h) =	0.8900	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2689E-08	3.9989E-05	1.3031E-06	
Accumulated dose (rem)	2.9445E-07	9.0773E-04	2.9610E-05	

DW Compartment Nuclide Inventory:

Time (h) =	0.8900	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4391E-06	1.0077E+19	2.1654E+16	
Rb-88	3.7341E+04	3.0933E-07	2.1168E+18	6.8907E+18	
I-131	8.8202E+05	7.1145E-03	3.2706E+22	1.3869E+20	
I-132	1.2586E+06	1.2193E-04	5.5628E+20	1.9618E+20	
I-133	1.7803E+06	1.5716E-03	7.1160E+21	2.8419E+20	
I-134	1.0409E+06	3.9018E-05	1.7535E+20	2.4567E+20	
I-135	1.5787E+06	4.4953E-04	2.0053E+21	2.6115E+20	
Xe-133	1.1362E+04	6.0701E-05	2.7485E+20	7.4470E+17	
Xe-133m	7.9589E+02	1.8078E-06	8.1856E+18	5.2242E+16	
Xe-135	1.3700E+05	5.3647E-05	2.3931E+20	8.9014E+18	
Xe-135m	2.5843E+05	2.8388E-06	1.2663E+19	2.6499E+19	
Cs-134	1.1725E+04	9.0622E-03	4.0727E+22	2.1666E+18	
Cs-136	3.5705E+03	4.8717E-05	2.1572E+20	6.6052E+17	
Cs-137	9.1030E+03	1.0465E-01	4.6003E+23	1.6821E+18	

DW Transport Group Inventory:

Time (h) =	0.8900	Atmosphere	Sump
Noble gases (atoms)	5.3501E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	

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Aerosols (kg)	1.2306E-01	1.7278E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4216E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7904E-04
Total I (Ci)			6.5405E+06

DW to WW Transport Group Inventory:

Time (h) = 0.8900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.8900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 0.8900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5368E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1317E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.8900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2991E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.0055E-06	2.2156E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.8900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5227E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2292E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.8900	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5227E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2292E-05

EAB Doses:

Time (h) = 0.9000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0957E-06	2.7889E-04	1.0093E-05
Accumulated dose (rem)	3.6841E-05	8.8648E-03	3.2316E-04

LPZ Doses:

Time (h) = 0.9000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4916E-07	3.7967E-05	1.3740E-06
Accumulated dose (rem)	5.0154E-06	1.2068E-03	4.3993E-05

CR Doses:

Time (h) = 0.9000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3068E-08	4.1254E-05	1.3442E-06
Accumulated dose (rem)	3.0752E-07	9.4899E-04	3.0954E-05

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DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.1810E+16
Rb-88	3.7265E+04	3.0870E-07	2.1125E+18	6.9410E+18
I-131	8.8201E+05	7.1145E-03	3.2706E+22	1.3987E+20
I-132	1.2585E+06	1.2193E-04	5.5626E+20	1.9785E+20
I-133	1.7798E+06	1.5711E-03	7.1138E+21	2.8656E+20
I-134	1.0327E+06	3.8711E-05	1.7397E+20	2.4705E+20
I-135	1.5771E+06	4.4907E-04	2.0032E+21	2.6325E+20
Xe-133	1.1456E+04	6.1205E-05	2.7713E+20	7.5983E+17
Xe-133m	8.0247E+02	1.8227E-06	8.2532E+18	5.3303E+16
Xe-135	1.3811E+05	5.4082E-05	2.4125E+20	9.0838E+18
Xe-135m	2.5793E+05	2.8333E-06	1.2639E+19	2.6839E+19
Cs-134	1.1725E+04	9.0623E-03	4.0727E+22	2.1822E+18
Cs-136	3.5705E+03	4.8717E-05	2.1572E+20	6.6528E+17
Cs-137	9.1032E+03	1.0466E-01	4.6004E+23	1.6942E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	5.3927E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.7521E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4214E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7899E-04
Total I (Ci)		6.5301E+06

DW to WW Transport Group Inventory:

Time (h) = 0.9000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5656E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1383E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3253E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.0494E-06	2.2318E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5936E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2455E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) =	0.9000	
Noble gases (atoms)	0.0000E+00	3.5936E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2455E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.9100		
Delta dose (rem)	1.1135E-06	2.8414E-04	1.0279E-05
Accumulated dose (rem)	3.7955E-05	9.1490E-03	3.3344E-04

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.9100		
Delta dose (rem)	1.5159E-07	3.8682E-05	1.3994E-06
Accumulated dose (rem)	5.1670E-06	1.2455E-03	4.5392E-05

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.9100		
Delta dose (rem)	1.3453E-08	4.2540E-05	1.3861E-06
Accumulated dose (rem)	3.2098E-07	9.9153E-04	3.2340E-05

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
0.9100				
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.1966E+16
Rb-88	3.7188E+04	3.0806E-07	2.1082E+18	6.9911E+18
I-131	8.8201E+05	7.1144E-03	3.2705E+22	1.4104E+20
I-132	1.2585E+06	1.2192E-04	5.5623E+20	1.9953E+20
I-133	1.7792E+06	1.5706E-03	7.1116E+21	2.8893E+20
I-134	1.0246E+06	3.8407E-05	1.7261E+20	2.4842E+20
I-135	1.5754E+06	4.4861E-04	2.0012E+21	2.6535E+20
Xe-133	1.1551E+04	6.1709E-05	2.7941E+20	7.7509E+17
Xe-133m	8.0904E+02	1.8377E-06	8.3208E+18	5.4371E+16
Xe-135	1.3922E+05	5.4516E-05	2.4319E+20	9.2677E+18
Xe-135m	2.5743E+05	2.8279E-06	1.2615E+19	2.7178E+19
Cs-134	1.1725E+04	9.0624E-03	4.0728E+22	2.1979E+18
Cs-136	3.5705E+03	4.8716E-05	2.1572E+20	6.7004E+17
Cs-137	9.1033E+03	1.0466E-01	4.6004E+23	1.7063E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
0.9100			
Noble gases (atoms)	5.4353E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2306E-01	1.7765E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4212E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7894E-04
Total I (Ci)			6.5197E+06

DW to WW Transport Group Inventory:

Time (h) = 0.9100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9100 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) =	0.9100	
Noble gases (atoms)	0.0000E+00	1.5946E+17

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1450E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.9100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3516E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.0933E-06	2.2480E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.9100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6650E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2618E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.9100	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6650E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2618E-05

EAB Doses:

Time (h) = 0.9200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1314E-06	2.8943E-04	1.0467E-05
Accumulated dose (rem)	3.9086E-05	9.4384E-03	3.4391E-04

LPZ Doses:

Time (h) = 0.9200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5402E-07	3.9401E-05	1.4250E-06
Accumulated dose (rem)	5.3210E-06	1.2849E-03	4.6817E-05

CR Doses:

Time (h) = 0.9200	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3844E-08	4.3849E-05	1.4286E-06
Accumulated dose (rem)	3.3482E-07	1.0354E-03	3.3769E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.9200	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.2122E+16
Rb-88	3.7112E+04	3.0743E-07	2.1038E+18	7.0411E+18
I-131	8.8199E+05	7.1143E-03	3.2705E+22	1.4222E+20
I-132	1.2584E+06	1.2191E-04	5.5619E+20	2.0121E+20
I-133	1.7786E+06	1.5701E-03	7.1094E+21	2.9130E+20
I-134	1.0165E+06	3.8106E-05	1.7125E+20	2.4978E+20
I-135	1.5738E+06	4.4814E-04	1.9991E+21	2.6745E+20
Xe-133	1.1645E+04	6.2213E-05	2.8170E+20	7.9048E+17
Xe-133m	8.1561E+02	1.8526E-06	8.3884E+18	5.5449E+16
Xe-135	1.4032E+05	5.4949E-05	2.4512E+20	9.4531E+18
Xe-135m	2.5695E+05	2.8226E-06	1.2591E+19	2.7516E+19
Cs-134	1.1725E+04	9.0625E-03	4.0728E+22	2.2135E+18
Cs-136	3.5704E+03	4.8716E-05	2.1571E+20	6.7479E+17
Cs-137	9.1034E+03	1.0466E-01	4.6005E+23	1.7185E+18

DW Transport Group Inventory:

Time (h) = 0.9200	Atmosphere	Sump
Noble gases (atoms)	5.4779E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.8009E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4210E-04

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 1.7889E-04
 Total I (Ci) 6.5094E+06

DW to WW Transport Group Inventory:
 Time (h) = 0.9200 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
 Time (h) = 0.9200 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6239E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1516E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3782E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.1372E-06	2.2642E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7370E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2781E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7370E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2781E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1493E-06	2.9475E-04	1.0656E-05
Accumulated dose (rem)	4.0236E-05	9.7331E-03	3.5456E-04

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5646E-07	4.0125E-05	1.4507E-06
Accumulated dose (rem)	5.4775E-06	1.3250E-03	4.8268E-05

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4240E-08	4.5180E-05	1.4719E-06
Accumulated dose (rem)	3.4906E-07	1.0806E-03	3.5241E-05

DW Compartment Nuclide Inventory:

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Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.2278E+16
Rb-88	3.7035E+04	3.0679E-07	2.0995E+18	7.0910E+18
I-131	8.8198E+05	7.1142E-03	3.2704E+22	1.4339E+20
I-132	1.2583E+06	1.2191E-04	5.5616E+20	2.0289E+20
I-133	1.7781E+06	1.5696E-03	7.1071E+21	2.9367E+20
I-134	1.0085E+06	3.7806E-05	1.6991E+20	2.5113E+20
I-135	1.5722E+06	4.4768E-04	1.9970E+21	2.6954E+20
Xe-133	1.1739E+04	6.2717E-05	2.8398E+20	8.0599E+17
Xe-133m	8.2218E+02	1.8675E-06	8.4559E+18	5.6535E+16
Xe-135	1.4143E+05	5.5381E-05	2.4704E+20	9.6399E+18
Xe-135m	2.5647E+05	2.8173E-06	1.2568E+19	2.7854E+19
Cs-134	1.1725E+04	9.0626E-03	4.0728E+22	2.2291E+18
Cs-136	3.5704E+03	4.8715E-05	2.1571E+20	6.7955E+17
Cs-137	9.1034E+03	1.0466E-01	4.6005E+23	1.7306E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump
Noble gases (atoms)	5.5204E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.8252E+00
Dose Effective (Ci/cc) I-131 (Thyroid)	1.4209E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)	1.7884E-04	
Total I (Ci)	6.4991E+06	

DW to WW Transport Group Inventory:

Time (h) = 0.9300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9300 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6534E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1582E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4049E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.1811E-06	2.2804E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8096E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2944E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

Time (h) =	Pathway	
	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	3.8096E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2944E-05

EAB Doses:

Time (h) =	0.9400	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1673E-06	3.0010E-04	1.0846E-05
Accumulated dose (rem)		4.1403E-05	1.0033E-02	3.6541E-04

LPZ Doses:

Time (h) =	0.9400	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5891E-07	4.0854E-05	1.4765E-06
Accumulated dose (rem)		5.6364E-06	1.3659E-03	4.9745E-05

CR Doses:

Time (h) =	0.9400	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.4641E-08	4.6533E-05	1.5159E-06
Accumulated dose (rem)		3.6370E-07	1.1271E-03	3.6757E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.9400	Ci	kg	Atoms	Decay
Rb-86		1.1709E+02	1.4390E-06	1.0077E+19	2.2434E+16
Rb-88		3.6958E+04	3.0616E-07	2.0951E+18	7.1408E+18
I-131		8.8197E+05	7.1141E-03	3.2704E+22	1.4457E+20
I-132		1.2582E+06	1.2190E-04	5.5612E+20	2.0457E+20
I-133		1.7775E+06	1.5691E-03	7.1049E+21	2.9603E+20
I-134		1.0006E+06	3.7509E-05	1.6857E+20	2.5247E+20
I-135		1.5706E+06	4.4722E-04	1.9950E+21	2.7163E+20
Xe-133		1.1834E+04	6.3220E-05	2.8626E+20	8.2162E+17
Xe-133m		8.2874E+02	1.8824E-06	8.5234E+18	5.7630E+16
Xe-135		1.4253E+05	5.5812E-05	2.4897E+20	9.8282E+18
Xe-135m		2.5600E+05	2.8122E-06	1.2545E+19	2.8191E+19
Cs-134		1.1725E+04	9.0626E-03	4.0729E+22	2.2447E+18
Cs-136		3.5703E+03	4.8714E-05	2.1571E+20	6.8430E+17
Cs-137		9.1035E+03	1.0466E-01	4.6005E+23	1.7427E+18

DW Transport Group Inventory:

Time (h) =	0.9400	Atmosphere	Sump
Noble gases (atoms)		5.5629E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2306E-01	1.8496E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4207E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7879E-04
Total I (Ci)			6.4889E+06

DW to WW Transport Group Inventory:

Time (h) = 0.9400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9400 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.9400	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.6832E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 2.1649E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 0.9400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4319E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.2250E-06	2.2966E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 0.9400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8827E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3107E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 0.9400	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8827E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3107E-05

EAB Doses:

Time (h) = 0.9500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1853E-06	3.0548E-04	1.1037E-05
Accumulated dose (rem)	4.2588E-05	1.0339E-02	3.7644E-04

LPZ Doses:

Time (h) = 0.9500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6135E-07	4.1586E-05	1.5026E-06
Accumulated dose (rem)	5.7977E-06	1.4075E-03	5.1247E-05

CR Doses:

Time (h) = 0.9500	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5048E-08	4.7908E-05	1.5606E-06
Accumulated dose (rem)	3.7875E-07	1.1750E-03	3.8317E-05

DW Compartment Nuclide Inventory:

Time (h) = 0.9500	Ci	kg	Atoms	Decay
Rb-86	1.1709E+02	1.4390E-06	1.0077E+19	2.2590E+16
Rb-88	3.6881E+04	3.0552E-07	2.0908E+18	7.1905E+18
I-131	8.8195E+05	7.1139E-03	3.2703E+22	1.4574E+20
I-132	1.2582E+06	1.2189E-04	5.5609E+20	2.0625E+20
I-133	1.7769E+06	1.5686E-03	7.1026E+21	2.9840E+20
I-134	9.9274E+05	3.7214E-05	1.6724E+20	2.5380E+20
I-135	1.5689E+06	4.4675E-04	1.9929E+21	2.7373E+20
Xe-133	1.1928E+04	6.3724E-05	2.8854E+20	8.3738E+17
Xe-133m	8.3530E+02	1.8973E-06	8.5909E+18	5.8734E+16
Xe-135	1.4363E+05	5.6242E-05	2.5089E+20	1.0018E+19
Xe-135m	2.5553E+05	2.8070E-06	1.2522E+19	2.8527E+19
Cs-134	1.1726E+04	9.0627E-03	4.0729E+22	2.2603E+18
Cs-136	3.5702E+03	4.8713E-05	2.1570E+20	6.8906E+17
Cs-137	9.1035E+03	1.0466E-01	4.6006E+23	1.7549E+18

DW Transport Group Inventory:

Time (h) = 0.9500	Atmosphere	Sump
Noble gases (atoms)	5.6054E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2306E-01	1.8740E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4205E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7873E-04
Total I (Ci)		6.4787E+06

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DW to WW Transport Group Inventory:

Time (h) = 0.9500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9500 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.9500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7132E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1715E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.9500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4591E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.2690E-06	2.3128E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.9500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9564E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3270E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.9500	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9564E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3270E-05

EAB Doses:

Time (h) =	0.9600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2033E-06	3.1090E-04	1.1229E-05
Accumulated dose (rem)		4.3791E-05	1.0650E-02	3.8767E-04

LPZ Doses:

Time (h) =	0.9600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6381E-07	4.2324E-05	1.5287E-06
Accumulated dose (rem)		5.9615E-06	1.4498E-03	5.2776E-05

CR Doses:

Time (h) =	0.9600	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5461E-08	4.9306E-05	1.6060E-06
Accumulated dose (rem)		3.9421E-07	1.2243E-03	3.9923E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.9600	Ci	kg	Atoms	Decay
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Rb-86	1.1709E+02	1.4390E-06	1.0076E+19	2.2746E+16
Rb-88	3.6804E+04	3.0488E-07	2.0864E+18	7.2401E+18
I-131	8.8193E+05	7.1138E-03	3.2702E+22	1.4692E+20
I-132	1.2581E+06	1.2188E-04	5.5605E+20	2.0793E+20
I-133	1.7764E+06	1.5681E-03	7.1002E+21	3.0077E+20
I-134	9.8493E+05	3.6921E-05	1.6593E+20	2.5511E+20
I-135	1.5673E+06	4.4629E-04	1.9908E+21	2.7581E+20
Xe-133	1.2022E+04	6.4227E-05	2.9081E+20	8.5327E+17
Xe-133m	8.4186E+02	1.9122E-06	8.6583E+18	5.9847E+16
Xe-135	1.4472E+05	5.6672E-05	2.5280E+20	1.0209E+19
Xe-135m	2.5507E+05	2.8020E-06	1.2499E+19	2.8863E+19
Cs-134	1.1726E+04	9.0627E-03	4.0729E+22	2.2760E+18
Cs-136	3.5702E+03	4.8712E-05	2.1570E+20	6.9381E+17
Cs-137	9.1036E+03	1.0466E-01	4.6006E+23	1.7670E+18

DW Transport Group Inventory:

Time (h) =	0.9600	Atmosphere	Sump
Noble gases (atoms)	5.6478E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2306E-01	1.8983E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4203E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7868E-04
Total I (Ci)			6.4686E+06

DW to WW Transport Group Inventory:

Time (h) = 0.9600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9600 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.9600	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7434E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1781E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.9600	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4864E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.3129E-06	2.3290E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.9600	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.0306E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3433E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.9600	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.0306E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3433E-05

EAB Doses:

Time (h) =	0.9700	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2213E-06	3.1634E-04	1.1423E-05
Accumulated dose (rem)		4.5013E-05	1.0966E-02	3.9910E-04

LPZ Doses:

Time (h) =	0.9700	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6626E-07	4.3065E-05	1.5550E-06
Accumulated dose (rem)		6.1278E-06	1.4928E-03	5.4331E-05

CR Doses:

Time (h) =	0.9700	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5879E-08	5.0727E-05	1.6522E-06
Accumulated dose (rem)		4.1009E-07	1.2750E-03	4.1575E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.9700	Ci	kg	Atoms	Decay
Rb-86		1.1708E+02	1.4390E-06	1.0076E+19	2.2902E+16
Rb-88		3.6727E+04	3.0424E-07	2.0820E+18	7.2896E+18
I-131		8.8191E+05	7.1136E-03	3.2702E+22	1.4809E+20
I-132		1.2580E+06	1.2187E-04	5.5601E+20	2.0960E+20
I-133		1.7758E+06	1.5676E-03	7.0979E+21	3.0313E+20
I-134		9.7718E+05	3.6630E-05	1.6462E+20	2.5642E+20
I-135		1.5657E+06	4.4582E-04	1.9888E+21	2.7790E+20
Xe-133		1.2116E+04	6.4730E-05	2.9309E+20	8.6928E+17
Xe-133m		8.4841E+02	1.9271E-06	8.7257E+18	6.0968E+16
Xe-135		1.4582E+05	5.7100E-05	2.5472E+20	1.0402E+19
Xe-135m		2.5462E+05	2.7970E-06	1.2477E+19	2.9198E+19
Cs-134		1.1726E+04	9.0627E-03	4.0729E+22	2.2916E+18
Cs-136		3.5701E+03	4.8712E-05	2.1570E+20	6.9857E+17
Cs-137		9.1036E+03	1.0466E-01	4.6006E+23	1.7791E+18

DW Transport Group Inventory:

Time (h) =	0.9700	Atmosphere	Sump
Noble gases (atoms)		5.6901E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2306E-01	1.9227E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4201E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7863E-04
Total I (Ci)			6.4585E+06

DW to WW Transport Group Inventory:

Time (h) =	0.9700	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	0.9700	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	0.9700
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.7738E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.1848E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.9700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5140E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.3568E-06	2.3452E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.9700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1054E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3596E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.9700	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1054E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3596E-05

EAB Doses:

Time (h) =	0.9800	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2394E-06	3.2182E-04	1.1617E-05
Accumulated dose (rem)		4.6252E-05	1.1288E-02	4.1071E-04

LPZ Doses:

Time (h) =	0.9800	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6873E-07	4.3811E-05	1.5814E-06
Accumulated dose (rem)		6.2965E-06	1.5367E-03	5.5912E-05

CR Doses:

Time (h) =	0.9800	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6302E-08	5.2170E-05	1.6991E-06
Accumulated dose (rem)		4.2639E-07	1.3272E-03	4.3275E-05

DW Compartment Nuclide Inventory:

Time (h) =	0.9800	Ci	kg	Atoms	Decay
Rb-86		1.1708E+02	1.4389E-06	1.0076E+19	2.3058E+16
Rb-88		3.6649E+04	3.0360E-07	2.0776E+18	7.3390E+18
I-131		8.8188E+05	7.1134E-03	3.2701E+22	1.4927E+20
I-132		1.2579E+06	1.2186E-04	5.5597E+20	2.1128E+20
I-133		1.7752E+06	1.5671E-03	7.0956E+21	3.0550E+20
I-134		9.6949E+05	3.6342E-05	1.6333E+20	2.5772E+20
I-135		1.5640E+06	4.4536E-04	1.9867E+21	2.7998E+20
Xe-133		1.2210E+04	6.5233E-05	2.9537E+20	8.8542E+17
Xe-133m		8.5496E+02	1.9420E-06	8.7931E+18	6.2098E+16
Xe-135		1.4691E+05	5.7528E-05	2.5662E+20	1.0596E+19
Xe-135m		2.5417E+05	2.7920E-06	1.2455E+19	2.9533E+19
Cs-134		1.1726E+04	9.0628E-03	4.0729E+22	2.3072E+18
Cs-136		3.5701E+03	4.8711E-05	2.1569E+20	7.0333E+17
Cs-137		9.1036E+03	1.0466E-01	4.6006E+23	1.7912E+18

DW Transport Group Inventory:

Time (h) =	0.9800	Atmosphere	Sump
Noble gases (atoms)		5.7324E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2306E-01	1.9471E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4199E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7858E-04
Total I (Ci)			6.4485E+06

DW to WW Transport Group Inventory:

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Time (h) = 0.9800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9800 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.9800	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8045E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1914E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.9800	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5418E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.4007E-06	2.3614E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.9800	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.1808E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3759E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.9800	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.1808E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3759E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.9900		
Delta dose (rem)	1.2575E-06	3.2733E-04	1.1812E-05
Accumulated dose (rem)	4.7510E-05	1.1615E-02	4.2253E-04

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.9900		
Delta dose (rem)	1.7119E-07	4.4561E-05	1.6080E-06
Accumulated dose (rem)	6.4677E-06	1.5812E-03	5.7520E-05

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) =	0.9900		
Delta dose (rem)	1.6731E-08	5.3637E-05	1.7467E-06
Accumulated dose (rem)	4.4312E-07	1.3808E-03	4.5021E-05

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) =	0.9900			
Rb-86	1.1708E+02	1.4389E-06	1.0076E+19	2.3214E+16
Rb-88	3.6572E+04	3.0296E-07	2.0732E+18	7.3883E+18

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I-131	8.8186E+05	7.1132E-03	3.2700E+22	1.5044E+20
I-132	1.2578E+06	1.2186E-04	5.5593E+20	2.1296E+20
I-133	1.7746E+06	1.5666E-03	7.0933E+21	3.0786E+20
I-134	9.6186E+05	3.6056E-05	1.6204E+20	2.5900E+20
I-135	1.5624E+06	4.4490E-04	1.9846E+21	2.8207E+20
Xe-133	1.2304E+04	6.5735E-05	2.9764E+20	9.0169E+17
Xe-133m	8.6151E+02	1.9568E-06	8.8605E+18	6.3237E+16
Xe-135	1.4800E+05	5.7955E-05	2.5853E+20	1.0792E+19
Xe-135m	2.5372E+05	2.7872E-06	1.2433E+19	2.9867E+19
Cs-134	1.1726E+04	9.0628E-03	4.0729E+22	2.3228E+18
Cs-136	3.5700E+03	4.8710E-05	2.1569E+20	7.0808E+17
Cs-137	9.1036E+03	1.0466E-01	4.6006E+23	1.8034E+18

DW Transport Group Inventory:

Time (h) =	0.9900	Atmosphere	Sump	
Noble gases (atoms)	5.7746E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2306E-01	1.9714E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)				1.4197E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				1.7853E-04
Total I (Ci)				6.4386E+06

DW to WW Transport Group Inventory:

Time (h) = 0.9900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 0.9900 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	0.9900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8354E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.1980E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	0.9900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5698E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.4446E-06	2.3776E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	0.9900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2568E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3922E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	0.9900	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2568E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3922E-05

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EAB Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2757E-06	3.3288E-04	1.2008E-05
Accumulated dose (rem)		4.8785E-05	1.1948E-02	4.3453E-04

LPZ Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7367E-07	4.5316E-05	1.6347E-06
Accumulated dose (rem)		6.6414E-06	1.6265E-03	5.9155E-05

CR Doses:

Time (h) =	1.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7166E-08	5.5125E-05	1.7951E-06
Accumulated dose (rem)		4.6029E-07	1.4360E-03	4.6816E-05

DW Compartment Nuclide Inventory:

Time (h) =	1.0000	Ci	kg	Atoms	Decay
Rb-86		1.1708E+02	1.4389E-06	1.0076E+19	2.3370E+16
Rb-88		3.6494E+04	3.0231E-07	2.0688E+18	7.4375E+18
I-131		8.8184E+05	7.1130E-03	3.2699E+22	1.5162E+20
I-132		1.2577E+06	1.2185E-04	5.5589E+20	2.1464E+20
I-133		1.7740E+06	1.5660E-03	7.0909E+21	3.1023E+20
I-134		9.5429E+05	3.5772E-05	1.6077E+20	2.6028E+20
I-135		1.5608E+06	4.4443E-04	1.9825E+21	2.8415E+20
Xe-133		1.2398E+04	6.6237E-05	2.9992E+20	9.1807E+17
Xe-133m		8.6806E+02	1.9717E-06	8.9278E+18	6.4384E+16
Xe-135		1.4909E+05	5.8381E-05	2.6043E+20	1.0989E+19
Xe-135m		2.5328E+05	2.7823E-06	1.2412E+19	3.0200E+19
Cs-134		1.1726E+04	9.0628E-03	4.0729E+22	2.3384E+18
Cs-136		3.5699E+03	4.8709E-05	2.1568E+20	7.1284E+17
Cs-137		9.1037E+03	1.0466E-01	4.6006E+23	1.8155E+18

DW Transport Group Inventory:

Time (h) =	1.0000	Atmosphere	Sump
Noble gases (atoms)		5.8169E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2306E-01	1.9958E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4195E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7848E-04
Total I (Ci)			6.4287E+06

DW to WW Transport Group Inventory:

Time (h) = 1.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 1.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	1.0000
Noble gases (atoms)	Filtered Transported
Elemental I (atoms)	0.0000E+00 1.8665E+17
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.2047E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5980E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.4885E-06	2.3938E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3332E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.4085E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3332E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.4085E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3945E-05	3.6433E-03	1.3140E-04
Accumulated dose (rem)	6.2731E-05	1.5591E-02	5.6593E-04

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8984E-06	4.9598E-04	1.7888E-05
Accumulated dose (rem)	8.5398E-06	2.1225E-03	7.7043E-05

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0391E-07	6.4068E-04	2.0865E-05
Accumulated dose (rem)	6.6420E-07	2.0766E-03	6.7682E-05

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1706E+02	1.4387E-06	1.0074E+19	2.4929E+16
Rb-88	3.1842E+04	2.6378E-07	1.8051E+18	7.9156E+18
I-131	8.8156E+05	7.1108E-03	3.2689E+22	1.6336E+20
I-132	1.2376E+06	1.1990E-04	5.4701E+20	2.3137E+20
I-133	1.7682E+06	1.5609E-03	7.0675E+21	3.3382E+20
I-134	8.8175E+05	3.3053E-05	1.4855E+20	2.7250E+20
I-135	1.5445E+06	4.3980E-04	1.9619E+21	3.0483E+20
Xe-133	1.3337E+04	7.1252E-05	3.2262E+20	1.0832E+18
Xe-133m	9.3338E+02	2.1201E-06	9.5996E+18	7.5938E+16
Xe-135	1.5969E+05	6.2531E-05	2.7894E+20	1.2967E+19
Xe-135m	2.5629E+05	2.8154E-06	1.2559E+19	3.3154E+19
Cs-134	1.1726E+04	9.0628E-03	4.0730E+22	2.4946E+18
Cs-136	3.5691E+03	4.8698E-05	2.1564E+20	7.6038E+17
Cs-137	9.1037E+03	1.0466E-01	4.6007E+23	1.9367E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	6.2372E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2304E-01	2.2394E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4172E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7788E-04
Total I (Ci)			6.3136E+06

DW to WW Transport Group Inventory:

Time (h) = 1.1000 Leakage Transport

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Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
 Time (h) = 1.1000 Leakage Transport

Noble gases (atoms) 0.0000E+00
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 1.1000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1799E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.2710E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 1.1000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8822E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	6.9277E-06	2.5558E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 1.1000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1037E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.5715E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 1.1000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1037E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.5715E-05

EAB Doses:

Time (h) = 1.2000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5844E-05	4.2318E-03	1.5220E-04
Accumulated dose (rem)	7.8575E-05	1.9823E-02	7.1813E-04

LPZ Doses:

Time (h) = 1.2000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1569E-06	5.7610E-04	2.0720E-05
Accumulated dose (rem)	1.0697E-05	2.6986E-03	9.7762E-05

CR Doses:

Time (h) = 1.2000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5304E-07	8.1540E-04	2.6537E-05
Accumulated dose (rem)	9.1724E-07	2.8920E-03	9.4219E-05

DW Compartment Nuclide Inventory:

Time (h) = 1.2000	Ci	kg	Atoms	Decay
Rb-86	1.1704E+02	1.4385E-06	1.0073E+19	2.6488E+16
Rb-88	3.1304E+04	2.5932E-07	1.7746E+18	8.3857E+18
I-131	8.8129E+05	7.1086E-03	3.2679E+22	1.7510E+20
I-132	1.2345E+06	1.1960E-04	5.4565E+20	2.4807E+20

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I-133	1.7623E+06	1.5557E-03	7.0440E+21	3.5733E+20
I-134	8.1472E+05	3.0541E-05	1.3725E+20	2.8379E+20
I-135	1.5284E+06	4.3521E-04	1.9414E+21	3.2529E+20
Xe-133	1.4272E+04	7.6246E-05	3.4524E+20	1.2607E+18
Xe-133m	9.9839E+02	2.2678E-06	1.0268E+19	8.8362E+16
Xe-135	1.7012E+05	6.6617E-05	2.9717E+20	1.5086E+19
Xe-135m	2.5792E+05	2.8333E-06	1.2639E+19	3.6143E+19
Cs-134	1.1726E+04	9.0628E-03	4.0729E+22	2.6508E+18
Cs-136	3.5684E+03	4.8688E-05	2.1559E+20	8.0792E+17
Cs-137	9.1037E+03	1.0466E-01	4.6007E+23	2.0580E+18

DW Transport Group Inventory:

Time (h) =	1.2000	Atmosphere	Sump
Noble gases (atoms)	6.6531E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.2303E-01	2.4831E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4152E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7737E-04
Total I (Ci)			6.2212E+06

DW to WW Transport Group Inventory:

Time (h) = 1.2000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 1.2000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	1.2000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5160E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.3373E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	1.2000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1869E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	7.3667E-06	2.7178E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	1.2000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9299E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.7345E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	1.2000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9299E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.7345E-05

EAB Doses:

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Time (h) =	1.3000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7766E-05	4.8499E-03	1.7396E-04
Accumulated dose (rem)		9.6341E-05	2.4673E-02	8.9209E-04

LPZ Doses:

Time (h) =	1.3000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.4186E-06	6.6023E-04	2.3682E-05
Accumulated dose (rem)		1.3115E-05	3.3588E-03	1.2144E-04

CR Doses:

Time (h) =	1.3000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.0836E-07	1.0141E-03	3.2981E-05
Accumulated dose (rem)		1.2256E-06	3.9061E-03	1.2720E-04

DW Compartment Nuclide Inventory:

Time (h) =	1.3000	Ci	kg	Atoms	Decay
Rb-86		1.1703E+02	1.4383E-06	1.0071E+19	2.8047E+16
Rb-88		3.1081E+04	2.5747E-07	1.7620E+18	8.8523E+18
I-131		8.8102E+05	7.1064E-03	3.2669E+22	1.8684E+20
I-132		1.2337E+06	1.1952E-04	5.4528E+20	2.6475E+20
I-133		1.7564E+06	1.5505E-03	7.0205E+21	3.8076E+20
I-134		7.5279E+05	2.8219E-05	1.2682E+20	2.9423E+20
I-135		1.5125E+06	4.3067E-04	1.9212E+21	3.4555E+20
Xe-133		1.5203E+04	8.1221E-05	3.6776E+20	1.4508E+18
Xe-133m		1.0631E+03	2.4147E-06	1.0934E+19	1.0165E+17
Xe-135		1.8038E+05	7.0634E-05	3.1509E+20	1.7343E+19
Xe-135m		2.5851E+05	2.8397E-06	1.2668E+19	3.9151E+19
Cs-134		1.1726E+04	9.0628E-03	4.0729E+22	2.8070E+18
Cs-136		3.5676E+03	4.8677E-05	2.1554E+20	8.5544E+17
Cs-137		9.1037E+03	1.0466E-01	4.6007E+23	2.1793E+18

DW Transport Group Inventory:

Time (h) =	1.3000	Atmosphere	Sump
Noble gases (atoms)		7.0645E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2301E-01	2.7267E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4131E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7688E-04
Total I (Ci)			6.1364E+06

DW to WW Transport Group Inventory:

Time (h) =	1.3000	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	1.3000	Leakage Transport
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	1.3000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.8745E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.4036E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	1.3000	Filtered Transported

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Noble gases (atoms)	0.0000E+00	2.5119E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	7.8058E-06	2.8797E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 1.3000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8111E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.8975E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 1.3000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.8111E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.8975E-05

EAB Doses:

Time (h) = 1.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9707E-05	5.4961E-03	1.9663E-04
Accumulated dose (rem)	1.1605E-04	3.0169E-02	1.0887E-03

LPZ Doses:

Time (h) = 1.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6827E-06	7.4821E-04	2.6768E-05
Accumulated dose (rem)	1.5798E-05	4.1070E-03	1.4821E-04

CR Doses:

Time (h) = 1.4000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6963E-07	1.2373E-03	4.0217E-05
Accumulated dose (rem)	1.5952E-06	5.1434E-03	1.6742E-04

DW Compartment Nuclide Inventory:

Time (h) = 1.4000	Ci	kg	Atoms	Decay
Rb-86	1.1701E+02	1.4380E-06	1.0070E+19	2.9606E+16
Rb-88	3.0791E+04	2.5507E-07	1.7455E+18	9.3147E+18
I-131	8.8075E+05	7.1043E-03	3.2659E+22	1.9857E+20
I-132	1.2332E+06	1.1947E-04	5.4505E+20	2.8143E+20
I-133	1.7506E+06	1.5453E-03	6.9972E+21	4.0412E+20
I-134	6.9556E+05	2.6074E-05	1.1718E+20	3.0387E+20
I-135	1.4967E+06	4.2618E-04	1.9011E+21	3.6559E+20
Xe-133	1.6131E+04	8.6176E-05	3.9020E+20	1.6532E+18
Xe-133m	1.1275E+03	2.5610E-06	1.1596E+19	1.1580E+17
Xe-135	1.9046E+05	7.4582E-05	3.3270E+20	1.9736E+19
Xe-135m	2.5831E+05	2.8375E-06	1.2658E+19	4.2166E+19
Cs-134	1.1726E+04	9.0627E-03	4.0729E+22	2.9632E+18
Cs-136	3.5668E+03	4.8666E-05	2.1550E+20	9.0296E+17
Cs-137	9.1037E+03	1.0466E-01	4.6007E+23	2.3005E+18

DW Transport Group Inventory:

Time (h) = 1.4000	Atmosphere	Sump
Noble gases (atoms)	7.4715E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2300E-01	2.9702E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4111E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7640E-04
Total I (Ci)		6.0568E+06

DW to WW Transport Group Inventory:

Time (h) = 1.4000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

WW to DW Transport Group Inventory:
Time (h) = 1.4000 Leakage Transport

Noble gases (atoms) 0.0000E+00
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2552E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.4699E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8570E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	8.2448E-06	3.0417E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7469E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0604E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.7469E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0604E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1663E-05	6.1692E-03	2.2017E-04
Accumulated dose (rem)	1.3771E-04	3.6338E-02	1.3089E-03

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9490E-06	8.3985E-04	2.9972E-05
Accumulated dose (rem)	1.8747E-05	4.9469E-03	1.7818E-04

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3670E-07	1.4855E-03	4.8259E-05
Accumulated dose (rem)	2.0319E-06	6.6290E-03	2.1568E-04

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.1699E+02	1.4378E-06	1.0068E+19	3.1164E+16
Rb-88	3.0416E+04	2.5196E-07	1.7242E+18	9.7714E+18
I-131	8.8048E+05	7.1021E-03	3.2649E+22	2.1030E+20
I-132	1.2327E+06	1.1942E-04	5.4482E+20	2.9810E+20
I-133	1.7447E+06	1.5402E-03	6.9739E+21	4.2740E+20
I-134	6.4268E+05	2.4092E-05	1.0827E+20	3.1278E+20

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I-135	1.4811E+06	4.2174E-04	1.8813E+21	3.8542E+20
Xe-133	1.7054E+04	9.1112E-05	4.1255E+20	1.8680E+18
Xe-133m	1.1916E+03	2.7065E-06	1.2255E+19	1.3081E+17
Xe-135	2.0036E+05	7.8460E-05	3.5000E+20	2.2263E+19
Xe-135m	2.5752E+05	2.8289E-06	1.2619E+19	4.5178E+19
Cs-134	1.1726E+04	9.0627E-03	4.0729E+22	3.1194E+18
Cs-136	3.5660E+03	4.8655E-05	2.1545E+20	9.5046E+17
Cs-137	9.1037E+03	1.0466E-01	4.6007E+23	2.4218E+18

DW Transport Group Inventory:

Time (h) =	1.5000	Atmosphere	Sump	
Noble gases (atoms)	7.8742E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2298E-01	3.2138E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4091E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7593E-04	
Total I (Ci)			5.9817E+06	

DW to WW Transport Group Inventory:

Time (h) = 1.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 1.5000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	1.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.6578E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.5361E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	1.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.2219E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	8.6837E-06	3.2036E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	1.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.7365E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2234E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	1.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.7365E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2234E-05

EAB Doses:

Time (h) =	1.6000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	2.3631E-05	6.8681E-03	2.4453E-04
Accumulated dose (rem)	1.6134E-04	4.3206E-02	1.5534E-03

LPZ Doses:

Time (h) =	1.6000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.2170E-06	9.3498E-04	3.3289E-05
Accumulated dose (rem)		2.1964E-05	5.8819E-03	2.1147E-04

CR Doses:

Time (h) =	1.6000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.0943E-07	1.7592E-03	5.7119E-05
Accumulated dose (rem)		2.5414E-06	8.3882E-03	2.7279E-04

DW Compartment Nuclide Inventory:

Time (h) =	1.6000	Ci	kg	Atoms	Decay
Rb-86		1.1697E+02	1.4376E-06	1.0067E+19	3.2722E+16
Rb-88		2.9973E+04	2.4829E-07	1.6991E+18	1.0221E+19
I-131		8.8021E+05	7.0999E-03	3.2639E+22	2.2203E+20
I-132		1.2321E+06	1.1937E-04	5.4459E+20	3.1476E+20
I-133		1.7389E+06	1.5351E-03	6.9507E+21	4.5060E+20
I-134		5.9383E+05	2.2260E-05	1.0004E+20	3.2101E+20
I-135		1.4656E+06	4.1734E-04	1.8617E+21	4.0504E+20
Xe-133		1.7975E+04	9.6027E-05	4.3480E+20	2.0951E+18
Xe-133m		1.2553E+03	2.8514E-06	1.2911E+19	1.4667E+17
Xe-135		2.1008E+05	8.2266E-05	3.6697E+20	2.4922E+19
Xe-135m		2.5628E+05	2.8153E-06	1.2559E+19	4.8181E+19
Cs-134		1.1726E+04	9.0627E-03	4.0729E+22	3.2755E+18
Cs-136		3.5652E+03	4.8645E-05	2.1540E+20	9.9796E+17
Cs-137		9.1037E+03	1.0466E-01	4.6007E+23	2.5431E+18

DW Transport Group Inventory:

Time (h) =	1.6000	Atmosphere	Sump
Noble gases (atoms)		8.2725E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2297E-01	3.4573E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4071E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7548E-04
Total I (Ci)			5.9108E+06

DW to WW Transport Group Inventory:

Time (h) = 1.6000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 1.6000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	1.6000	Filtered Transported
Noble gases (atoms)	0.0000E+00	4.0821E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.6024E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	1.6000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.6066E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	9.1226E-06	3.3655E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 1.6000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7795E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3863E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 1.6000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7795E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3863E-05

EAB Doses:

Time (h) = 1.7000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5611E-05	7.5915E-03	2.6968E-04
Accumulated dose (rem)	1.8695E-04	5.0798E-02	1.8231E-03

LPZ Doses:

Time (h) = 1.7000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4865E-06	1.0335E-03	3.6712E-05
Accumulated dose (rem)	2.5451E-05	6.9153E-03	2.4818E-04

CR Doses:

Time (h) = 1.7000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8776E-07	2.0587E-03	6.6807E-05
Accumulated dose (rem)	3.1291E-06	1.0447E-02	3.3960E-04

DW Compartment Nuclide Inventory:

Time (h) = 1.7000	Ci	kg	Atoms	Decay
Rb-86	1.1695E+02	1.4374E-06	1.0065E+19	3.4280E+16
Rb-88	2.9480E+04	2.4421E-07	1.6712E+18	1.0664E+19
I-131	8.7994E+05	7.0978E-03	3.2629E+22	2.3375E+20
I-132	1.2316E+06	1.1932E-04	5.4435E+20	3.3141E+20
I-133	1.7332E+06	1.5300E-03	6.9276E+21	4.7373E+20
I-134	5.4868E+05	2.0568E-05	9.2434E+19	3.2861E+20
I-135	1.4503E+06	4.1298E-04	1.8423E+21	4.2446E+20
Xe-133	1.8891E+04	1.0092E-04	4.5698E+20	2.3344E+18
Xe-133m	1.3188E+03	2.9956E-06	1.3564E+19	1.6338E+17
Xe-135	2.1962E+05	8.6000E-05	3.8363E+20	2.7709E+19
Xe-135m	2.5471E+05	2.7981E-06	1.2482E+19	5.1170E+19
Cs-134	1.1725E+04	9.0626E-03	4.0729E+22	3.4317E+18
Cs-136	3.5644E+03	4.8634E-05	2.1535E+20	1.0454E+18
Cs-137	9.1037E+03	1.0466E-01	4.6007E+23	2.6643E+18

DW Transport Group Inventory:

Time (h) = 1.7000	Atmosphere	Sump
Noble gases (atoms)	8.6665E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2296E-01	3.7008E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4051E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7503E-04
Total I (Ci)		5.8437E+06

DW to WW Transport Group Inventory:

Time (h) = 1.7000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

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WW to DW Transport Group Inventory:

Time (h) = 1.7000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 1.7000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5278E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.6687E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 1.7000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0107E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	9.5614E-06	3.5274E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 1.7000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0875E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5492E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 1.7000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0875E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5492E-05

EAB Doses:

Time (h) = 1.8000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7599E-05	8.3383E-03	2.9557E-04
Accumulated dose (rem)	2.1455E-04	5.9136E-02	2.1187E-03

LPZ Doses:

Time (h) = 1.8000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7571E-06	1.1351E-03	4.0237E-05
Accumulated dose (rem)	2.9208E-05	8.0505E-03	2.8842E-04

CR Doses:

Time (h) = 1.8000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.7163E-07	2.3842E-03	7.7333E-05
Accumulated dose (rem)	3.8007E-06	1.2831E-02	4.1693E-04

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	1.1694E+02	1.4371E-06	1.0064E+19	3.5838E+16
Rb-88	2.8951E+04	2.3983E-07	1.6412E+18	1.1099E+19
I-131	8.7967E+05	7.0956E-03	3.2619E+22	2.4547E+20
I-132	1.2311E+06	1.1926E-04	5.4411E+20	3.4806E+20
I-133	1.7274E+06	1.5249E-03	6.9045E+21	4.9677E+20
I-134	5.0697E+05	1.9004E-05	8.5407E+19	3.3564E+20
I-135	1.4352E+06	4.0868E-04	1.8230E+21	4.4368E+20
Xe-133	1.9804E+04	1.0580E-04	4.7906E+20	2.5860E+18

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Xe-133m	1.3820E+03	3.1391E-06	1.4213E+19	1.8093E+17
Xe-135	2.2898E+05	8.9663E-05	3.9997E+20	3.0623E+19
Xe-135m	2.5290E+05	2.7781E-06	1.2393E+19	5.4141E+19
Cs-134	1.1725E+04	9.0626E-03	4.0728E+22	3.5879E+18
Cs-136	3.5636E+03	4.8623E-05	2.1531E+20	1.0929E+18
Cs-137	9.1037E+03	1.0466E-01	4.6007E+23	2.7856E+18

DW Transport Group Inventory:

Time (h) =	1.8000	Atmosphere	Sump	
Noble gases (atoms)	9.0564E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	1.2294E-01	3.9442E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4031E-04	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7459E-04	
Total I (Ci)			5.7803E+06	

DW to WW Transport Group Inventory:

Time (h) =	1.8000	Leakage Transport		
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) =	1.8000	Leakage Transport		
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Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	1.8000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9948E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.7349E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	1.8000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4340E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.0000E-05	3.6893E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	1.8000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2023E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7120E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	1.8000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2023E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7120E-05

EAB Doses:

Time (h) =	1.9000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9594E-05	9.1073E-03	3.2217E-04	
Accumulated dose (rem)	2.4414E-04	6.8243E-02	2.4408E-03	

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LPZ Doses:

Time (h) =	1.9000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.0288E-06	1.2398E-03	4.3859E-05
Accumulated dose (rem)		3.3236E-05	9.2903E-03	3.3228E-04

CR Doses:

Time (h) =	1.9000	Whole Body	Thyroid	TEDE
Delta dose (rem)		7.6102E-07	2.7360E-03	8.8700E-05
Accumulated dose (rem)		4.5618E-06	1.5567E-02	5.0563E-04

DW Compartment Nuclide Inventory:

Time (h) =	1.9000	Ci	kg	Atoms	Decay
Rb-86		1.1692E+02	1.4369E-06	1.0062E+19	3.7395E+16
Rb-88		2.8397E+04	2.3523E-07	1.6098E+18	1.1525E+19
I-131		8.7941E+05	7.0934E-03	3.2609E+22	2.5719E+20
I-132		1.2305E+06	1.1921E-04	5.4386E+20	3.6470E+20
I-133		1.7216E+06	1.5198E-03	6.8815E+21	5.1974E+20
I-134		4.6843E+05	1.7559E-05	7.8915E+19	3.4213E+20
I-135		1.4202E+06	4.0441E-04	1.8040E+21	4.6270E+20
Xe-133		2.0713E+04	1.1066E-04	5.0105E+20	2.8496E+18
Xe-133m		1.4448E+03	3.2818E-06	1.4860E+19	1.9932E+17
Xe-135		2.3815E+05	9.3255E-05	4.1600E+20	3.3661E+19
Xe-135m		2.5090E+05	2.7562E-06	1.2295E+19	5.7090E+19
Cs-134		1.1725E+04	9.0626E-03	4.0728E+22	3.7441E+18
Cs-136		3.5629E+03	4.8613E-05	2.1526E+20	1.1404E+18
Cs-137		9.1037E+03	1.0466E-01	4.6007E+23	2.9068E+18

DW Transport Group Inventory:

Time (h) =	1.9000	Atmosphere	Sump
Noble gases (atoms)		9.4421E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2293E-01	4.1877E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4012E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7416E-04
Total I (Ci)			5.7202E+06

DW to WW Transport Group Inventory:

Time (h) = 1.9000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

Time (h) = 1.9000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	1.9000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 5.4828E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.8012E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	1.9000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 4.8764E+16
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.0439E-05 3.8512E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	1.9000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3223E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8749E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	1.9000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3223E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8749E-05

EAB Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.1596E-05	9.8976E-03	3.4945E-04
Accumulated dose (rem)		2.7574E-04	7.8141E-02	2.7903E-03

LPZ Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.3012E-06	1.3474E-03	4.7573E-05
Accumulated dose (rem)		3.7538E-05	1.0638E-02	3.7985E-04

CR Doses:

Time (h) =	2.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		8.5593E-07	3.1141E-03	1.0091E-04
Accumulated dose (rem)		5.4177E-06	1.8681E-02	6.0655E-04

DW Compartment Nuclide Inventory:

Time (h) =	2.0000	Ci	kg	Atoms	Decay
Rb-86		1.1690E+02	1.4367E-06	1.0060E+19	3.8953E+16
Rb-88		2.7825E+04	2.3050E-07	1.5774E+18	1.1943E+19
I-131		8.7914E+05	7.0913E-03	3.2599E+22	2.6890E+20
I-132		1.2299E+06	1.1915E-04	5.4360E+20	3.8133E+20
I-133		1.7159E+06	1.5147E-03	6.8586E+21	5.4264E+20
I-134		4.3282E+05	1.6225E-05	7.2915E+19	3.4813E+20
I-135		1.4054E+06	4.0019E-04	1.7852E+21	4.8152E+20
Xe-133		2.1619E+04	1.1550E-04	5.2296E+20	3.1254E+18
Xe-133m		1.5074E+03	3.4239E-06	1.5503E+19	2.1856E+17
Xe-135		2.4714E+05	9.6777E-05	4.3171E+20	3.6821E+19
Xe-135m		2.4877E+05	2.7328E-06	1.2191E+19	6.0016E+19
Cs-134		1.1725E+04	9.0625E-03	4.0728E+22	3.9003E+18
Cs-136		3.5621E+03	4.8602E-05	2.1521E+20	1.1878E+18
Cs-137		9.1037E+03	1.0466E-01	4.6007E+23	3.0281E+18

DW Transport Group Inventory:

Time (h) =	2.0000	Atmosphere	Sump	
Noble gases (atoms)		9.8236E+20	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		1.2292E-01	4.4311E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)				1.3992E-04
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				1.7374E-04
Total I (Ci)				5.6632E+06

DW to WW Transport Group Inventory:

Time (h) = 2.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

WW to DW Transport Group Inventory:

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Time (h) = 2.0000 Leakage Transport

Noble gases (atoms)	0.0000E+00
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	0.0000E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9916E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.8674E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3376E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.0878E-05	4.0130E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4473E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.0377E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 2.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4473E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.0377E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.0170			
Delta dose (rem)	5.5211E-06	1.7615E-03	6.2074E-05
Accumulated dose (rem)	2.8126E-04	7.9903E-02	2.8524E-03

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.0170			
Delta dose (rem)	7.5162E-07	2.3980E-04	8.4504E-06
Accumulated dose (rem)	3.8289E-05	1.0877E-02	3.8830E-04

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 2.0170			
Delta dose (rem)	1.5020E-07	5.6557E-04	1.8317E-05
Accumulated dose (rem)	5.5679E-06	1.9247E-02	6.2487E-04

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 2.0170				
Rb-86	5.9103E+01	7.2637E-07	5.0864E+18	3.9087E+16
Rb-88	1.3518E+04	1.1198E-07	7.6631E+17	1.1974E+19
I-131	4.4446E+05	3.5851E-03	1.6481E+22	2.6991E+20
I-132	6.1866E+05	5.9935E-05	2.7344E+20	3.8274E+20
I-133	8.6708E+05	7.6542E-04	3.4658E+21	5.4460E+20
I-134	2.1591E+05	8.0936E-06	3.6374E+19	3.4862E+20
I-135	7.0932E+05	2.0198E-04	9.0099E+20	4.8312E+20
Xe-133	1.4983E+04	8.0044E-05	3.6243E+20	3.1592E+18
Xe-133m	1.0446E+03	2.3727E-06	1.0743E+19	2.2091E+17
Xe-135	1.7117E+05	6.7028E-05	2.9900E+20	3.7207E+19

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Xe-135m	1.6869E+05	1.8531E-06	8.2665E+18	6.0396E+19
Cs-134	5.9283E+03	4.5820E-03	2.0592E+22	3.9137E+18
Cs-136	1.8009E+03	2.4572E-05	1.0881E+20	1.1919E+18
Cs-137	4.6028E+03	5.2917E-02	2.3261E+23	3.0385E+18

DW Transport Group Inventory:

Time (h) =	2.0170	Atmosphere	Sump
Noble gases (atoms)	6.8044E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	6.2145E-02	4.4589E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			7.0725E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			8.7793E-05
Total I (Ci)			2.8554E+06

DW to WW Transport Group Inventory:

Time (h) = 2.0170 Leakage Transport

Noble gases (atoms)	4.9351E+20
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.2581E-02

WW to DW Transport Group Inventory:

Time (h) = 2.0170 Leakage Transport

Noble gases (atoms)	2.0984E+20
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.4182E-02

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	2.0170	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.0627E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	2.8750E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	2.0170	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.4021E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.0928E-05	4.0315E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	2.0170	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4648E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.0564E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	2.0170	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.4648E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.0564E-05

EAB Doses:

Time (h) =	2.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.8057E-04	5.9665E-02	2.0948E-03
Accumulated dose (rem)		4.6183E-04	1.3957E-01	4.9472E-03

LPZ Doses:

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Time (h) =	2.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4582E-05	8.1225E-03	2.8517E-04	
Accumulated dose (rem)	6.2871E-05	1.9000E-02	6.7348E-04	

CR Doses:

Time (h) =	2.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.9879E-06	1.9192E-02	6.2105E-04	
Accumulated dose (rem)	1.0556E-05	3.8439E-02	1.2459E-03	

DW Compartment Nuclide Inventory:

Time (h) =	2.5000	Ci	kg	Atoms	Decay
Rb-86		3.0464E+01	3.7440E-07	2.6217E+18	4.1596E+16
Rb-88		2.2415E+03	1.8568E-08	1.2707E+17	1.2335E+19
I-131		2.2887E+05	1.8461E-03	8.4866E+21	2.8877E+20
I-132		2.7589E+05	2.6728E-05	1.2194E+20	4.0736E+20
I-133		4.4012E+05	3.8852E-04	1.7592E+21	5.8117E+20
I-134		7.6020E+04	2.8497E-06	1.2807E+19	3.5638E+20
I-135		3.4781E+05	9.9039E-05	4.4180E+20	5.1257E+20
Xe-133		1.4830E+04	7.9225E-05	3.5873E+20	4.0619E+18
Xe-133m		1.0311E+03	2.3421E-06	1.0605E+19	2.8376E+17
Xe-135		1.6565E+05	6.4866E-05	2.8936E+20	4.7395E+19
Xe-135m		9.4381E+04	1.0368E-06	4.6249E+18	6.7614E+19
Cs-134		3.0579E+03	2.3635E-03	1.0622E+22	4.1655E+18
Cs-136		9.2797E+02	1.2661E-05	5.6065E+19	1.2684E+18
Cs-137		2.3743E+03	2.7296E-02	1.1999E+23	3.2341E+18

DW Transport Group Inventory:

Time (h) =	2.5000	Atmosphere	Sump
Noble gases (atoms)	6.6331E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.2036E-02	4.4997E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)		3.6205E-05	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.4597E-05	
Total I (Ci)		1.3687E+06	

DW to WW Transport Group Inventory:

Time (h) = 2.5000 Leakage Transport

Noble gases (atoms)	1.1674E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.2217E-01

WW to DW Transport Group Inventory:

Time (h) = 2.5000 Leakage Transport

Noble gases (atoms)	1.2059E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.5290E-01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	2.5000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 7.6745E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 2.9860E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	2.5000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 6.8633E+16
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.1662E-05 4.3026E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8610E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.3291E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8610E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.3291E-05

EAB Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2501E-04	8.0007E-02	2.7885E-03
Accumulated dose (rem)	6.8684E-04	2.1957E-01	7.7357E-03

LPZ Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0631E-05	1.0892E-02	3.7962E-04
Accumulated dose (rem)	9.3503E-05	2.9892E-02	1.0531E-03

CR Doses:

Time (h) =	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8169E-06	2.7433E-02	8.8624E-04
Accumulated dose (rem)	1.7373E-05	6.5873E-02	2.1322E-03

DW Compartment Nuclide Inventory:

Time (h) =	Ci	kg	Atoms	Decay
Rb-86	1.6614E+01	2.0418E-07	1.4298E+18	4.3028E+16
Rb-88	3.7785E+02	3.1301E-09	2.1420E+16	1.2401E+19
I-131	1.2469E+05	1.0057E-03	4.6234E+21	2.9952E+20
I-132	1.2951E+05	1.2547E-05	5.7242E+19	4.1948E+20
I-133	2.3624E+05	2.0854E-04	9.4425E+20	6.0170E+20
I-134	2.7941E+04	1.0474E-06	4.7072E+18	3.5939E+20
I-135	1.8013E+05	5.1292E-05	2.2881E+20	5.2854E+20
Xe-133	1.5615E+04	8.3424E-05	3.7774E+20	5.0730E+18
Xe-133m	1.0823E+03	2.4583E-06	1.1131E+19	3.5394E+17
Xe-135	1.6959E+05	6.6407E-05	2.9623E+20	5.8525E+19
Xe-135m	5.2863E+04	5.8070E-07	2.5904E+18	7.2062E+19
Cs-134	1.6689E+03	1.2899E-03	5.7969E+21	4.3092E+18
Cs-136	5.0590E+02	6.9027E-06	3.0565E+19	1.3120E+18
Cs-137	1.2958E+03	1.4897E-02	6.5485E+22	3.3456E+18

DW Transport Group Inventory:

Time (h) =	Atmosphere	Sump	
Noble gases (atoms)	6.8769E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.7474E-02	4.5235E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.9609E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.3984E-05
Total I (Ci)			6.9850E+05

DW to WW Transport Group Inventory:

Time (h) = 3.0000 Leakage Transport

Noble gases (atoms)	2.4290E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.2712E+00

WW to DW Transport Group Inventory:

Time (h) = 3.0000 Leakage Transport

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Noble gases (atoms)	2.4672E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.3112E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 3.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4933E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0507E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 3.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.5121E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2091E-05	4.4607E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 3.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3081E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.4882E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 3.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3081E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.4882E-05

EAB Doses:

Time (h) = 3.1570	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6851E-05	2.8575E-02	9.9174E-04
Accumulated dose (rem)	7.6369E-04	2.4815E-01	8.7274E-03

LPZ Doses:

Time (h) = 3.1570	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0462E-05	3.8900E-03	1.3501E-04
Accumulated dose (rem)	1.0396E-04	3.3782E-02	1.1881E-03

CR Doses:

Time (h) = 3.1570	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5426E-06	1.0435E-02	3.3680E-04
Accumulated dose (rem)	1.9915E-05	7.6308E-02	2.4690E-03

DW Compartment Nuclide Inventory:

Time (h) = 3.1570	Ci	kg	Atoms	Decay
Rb-86	1.3733E+01	1.6878E-07	1.1819E+18	4.3328E+16
Rb-88	2.1604E+02	1.7896E-09	1.2247E+16	1.2406E+19
I-131	1.0304E+05	8.3111E-04	3.8207E+21	3.0177E+20
I-132	1.0214E+05	9.8949E-06	4.5143E+19	4.2177E+20
I-133	1.9431E+05	1.7153E-04	7.7667E+20	6.0595E+20
I-134	2.0406E+04	7.6494E-07	3.4377E+18	3.5986E+20
I-135	1.4651E+05	4.1718E-05	1.8610E+20	5.3177E+20
Xe-133	1.5774E+04	8.4270E-05	3.8157E+20	5.4003E+18
Xe-133m	1.0921E+03	2.4806E-06	1.1232E+19	3.7661E+17
Xe-135	1.6967E+05	6.6441E-05	2.9638E+20	6.2061E+19
Xe-135m	4.3536E+04	4.7824E-07	2.1334E+18	7.3009E+19
Cs-134	1.3799E+03	1.0665E-03	4.7931E+21	4.3394E+18

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Cs-136	4.1816E+02	5.7054E-06	2.5264E+19	1.3211E+18
Cs-137	1.0714E+03	1.2318E-02	5.4145E+22	3.3691E+18

DW Transport Group Inventory:

Time (h) =	3.1570	Atmosphere	Sump
Noble gases (atoms)	6.9132E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	1.4445E-02	4.5284E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.6175E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9744E-05
Total I (Ci)			5.6640E+05

DW to WW Transport Group Inventory:

Time (h) = 3.1570 Leakage Transport

Noble gases (atoms)	2.8332E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.3646E+00

WW to DW Transport Group Inventory:

Time (h) = 3.1570 Leakage Transport

Noble gases (atoms)	2.8713E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.4065E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	3.1570	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0076E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0641E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	3.1570	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.0402E+16
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2180E-05	4.4936E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	3.1570	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.4513E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.5213E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	3.1570	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.4513E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.5213E-05

EAB Doses:

Time (h) =	3.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7618E-04	6.7572E-02	2.3386E-03
Accumulated dose (rem)		9.3988E-04	3.1572E-01	1.1066E-02

LPZ Doses:

Time (h) =	3.5000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	2.3985E-05	9.1988E-03	3.1836E-04
Accumulated dose (rem)	1.2795E-04	4.2980E-02	1.5065E-03

CR Doses:

Time (h) =	3.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		6.3121E-06	2.6061E-02	8.4064E-04
Accumulated dose (rem)		2.6227E-05	1.0237E-01	3.3096E-03

DW Compartment Nuclide Inventory:

Time (h) =	3.5000	Ci	kg	Atoms	Decay
Rb-86		9.0602E+00	1.1135E-07	7.7972E+17	4.3812E+16
Rb-88		6.3696E+01	5.2765E-10	3.6109E+15	1.2412E+19
I-131		6.7928E+04	5.4792E-04	2.5188E+21	3.0541E+20
I-132		6.0796E+04	5.8899E-06	2.6871E+19	4.2520E+20
I-133		1.2680E+05	1.1193E-04	5.0683E+20	6.1278E+20
I-134		1.0270E+04	3.8498E-07	1.7301E+18	3.6050E+20
I-135		9.3288E+04	2.6564E-05	1.1850E+20	5.3685E+20
Xe-133		1.6018E+04	8.5575E-05	3.8748E+20	6.1252E+18
Xe-133m		1.1064E+03	2.5130E-06	1.1379E+19	4.2674E+17
Xe-135		1.6857E+05	6.6011E-05	2.9447E+20	6.9771E+19
Xe-135m		2.8305E+04	3.1093E-07	1.3870E+18	7.4524E+19
Cs-134		9.1082E+02	7.0397E-04	3.1637E+21	4.3881E+18
Cs-136		2.7580E+02	3.7631E-06	1.6663E+19	1.3359E+18
Cs-137		7.0721E+02	8.1306E-03	3.5740E+22	3.4069E+18

DW Transport Group Inventory:

Time (h) =	3.5000	Atmosphere	Sump
Noble gases (atoms)		6.9471E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		9.5311E-03	4.5364E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0623E-05
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.2911E-05
Total I (Ci)			3.5908E+05

DW to WW Transport Group Inventory:

Time (h) = 3.5000 Leakage Transport

Noble gases (atoms)	3.7216E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.5161E+00

WW to DW Transport Group Inventory:

Time (h) = 3.5000 Leakage Transport

Noble gases (atoms)	3.7597E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.5611E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	3.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.1357E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.0860E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	3.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.0201E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2325E-05	4.5470E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Pathway

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Time (h) =	3.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	2.7662E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	4.5750E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	3.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	2.7662E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	4.5750E-05

EAB Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.7268E-04	1.0963E-01	3.7783E-03
Accumulated dose (rem)		1.2126E-03	4.2535E-01	1.4844E-02

LPZ Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.7120E-05	1.4925E-02	5.1435E-04
Accumulated dose (rem)		1.6507E-04	5.7905E-02	2.0208E-03

CR Doses:

Time (h) =	4.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1139E-05	4.6324E-02	1.4929E-03
Accumulated dose (rem)		3.7366E-05	1.4869E-01	4.8025E-03

DW Compartment Nuclide Inventory:

Time (h) =	4.0000	Ci	kg	Atoms	Decay
Rb-86		4.9410E+00	6.0724E-08	4.2522E+17	4.4238E+16
Rb-88		1.0738E+01	8.8948E-11	6.0870E+14	1.2413E+19
I-131		3.7007E+04	2.9850E-04	1.3722E+21	3.0860E+20
I-132		2.8540E+04	2.7649E-06	1.2614E+19	4.2787E+20
I-133		6.8060E+04	6.0081E-05	2.7204E+20	6.1869E+20
I-134		3.7748E+03	1.4150E-07	6.3592E+17	3.6091E+20
I-135		4.8313E+04	1.3757E-05	6.1369E+19	5.4114E+20
Xe-133		1.6210E+04	8.6601E-05	3.9212E+20	7.1975E+18
Xe-133m		1.1156E+03	2.5340E-06	1.1474E+19	5.0068E+17
Xe-135		1.6500E+05	6.4612E-05	2.8823E+20	8.0869E+19
Xe-135m		1.4943E+04	1.6415E-07	7.3227E+17	7.5826E+19
Cs-134		4.9709E+02	3.8420E-04	1.7267E+21	4.4309E+18
Cs-136		1.5036E+02	2.0515E-06	9.0843E+18	1.3488E+18
Cs-137		3.8598E+02	4.4374E-03	1.9506E+22	3.4401E+18

DW Transport Group Inventory:

Time (h) =	4.0000	Atmosphere	Sump	
Noble gases (atoms)	6.9255E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	5.1990E-03	4.5435E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			5.7560E-06	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.9558E-06	
Total I (Ci)			1.8569E+05	

DW to WW Transport Group Inventory:

Time (h) = 4.0000 Leakage Transport

Noble gases (atoms)	5.0193E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.6497E+00

WW to DW Transport Group Inventory:

Time (h) = 4.0000 Leakage Transport

Noble gases (atoms)	5.0573E+22
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.6974E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3227E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1052E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1897E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2452E-05	4.5940E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2261E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6223E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 4.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2261E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6223E-05

EAB Doses:

Time (h) = 4.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8540E-04	1.2051E-01	4.1355E-03
Accumulated dose (rem)	1.4980E-03	5.4586E-01	1.8980E-02

LPZ Doses:

Time (h) = 4.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8853E-05	1.6405E-02	5.6299E-04
Accumulated dose (rem)	2.0392E-04	7.4310E-02	2.5838E-03

CR Doses:

Time (h) = 4.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3511E-05	5.6369E-02	1.8150E-03
Accumulated dose (rem)	5.0878E-05	2.0506E-01	6.6176E-03

DW Compartment Nuclide Inventory:

Time (h) = 4.5000	Ci	kg	Atoms	Decay
Rb-86	2.6946E+00	3.3116E-08	2.3189E+17	4.4470E+16
Rb-88	1.8101E+00	1.4994E-11	1.0261E+14	1.2414E+19
I-131	2.0161E+04	1.6262E-04	7.4758E+20	3.1033E+20
I-132	1.3397E+04	1.2979E-06	5.9214E+18	4.2913E+20
I-133	3.6532E+04	3.2249E-05	1.4602E+20	6.2187E+20
I-134	1.3874E+03	5.2009E-08	2.3374E+17	3.6105E+20
I-135	2.5021E+04	7.1248E-06	3.1782E+19	5.4335E+20
Xe-133	1.6291E+04	8.7034E-05	3.9408E+20	8.2793E+18
Xe-133m	1.1170E+03	2.5372E-06	1.1488E+19	5.7499E+17
Xe-135	1.6023E+05	6.2742E-05	2.7988E+20	9.1694E+19
Xe-135m	7.8145E+03	8.5843E-08	3.8293E+17	7.6510E+19
Cs-134	2.7129E+02	2.0968E-04	9.4234E+20	4.4543E+18
Cs-136	8.1972E+01	1.1184E-06	4.9525E+18	1.3559E+18
Cs-137	2.1065E+02	2.4218E-03	1.0646E+22	3.4582E+18

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DW Transport Group Inventory:

Time (h) =	4.5000	Atmosphere	Sump
Noble gases (atoms)	6.8584E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	2.8360E-03	4.5474E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.1194E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.7499E-06
Total I (Ci)			9.6499E+04

DW to WW Transport Group Inventory:

Time (h) = 4.5000 Leakage Transport

Noble gases (atoms)	6.3091E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.7225E+00

WW to DW Transport Group Inventory:

Time (h) = 4.5000 Leakage Transport

Noble gases (atoms)	6.3471E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.7718E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	4.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5087E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1158E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	4.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.3583E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2522E-05	4.6197E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	4.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.6831E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6482E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	4.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	3.6831E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6482E-05

EAB Doses:

Time (h) =	5.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9262E-04	1.2898E-01	4.4105E-03
Accumulated dose (rem)		1.7906E-03	6.7484E-01	2.3390E-02

LPZ Doses:

Time (h) =	5.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		3.9835E-05	1.7559E-02	6.0042E-04
Accumulated dose (rem)		2.4376E-04	9.1869E-02	3.1842E-03

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CR Doses:

Time (h) =	5.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.5928E-05	6.6212E-02	2.1304E-03
Accumulated dose (rem)		6.6805E-05	2.7127E-01	8.7480E-03

DW Compartment Nuclide Inventory:

Time (h) =	5.0000	Ci	kg	Atoms	Decay
Rb-86		1.4695E+00	1.8060E-08	1.2646E+17	4.4597E+16
Rb-88		3.0513E-01	2.5277E-12	1.7298E+13	1.2414E+19
I-131		1.0984E+04	8.8595E-05	4.0728E+20	3.1128E+20
I-132		6.2891E+03	6.0928E-07	2.7797E+18	4.2972E+20
I-133		1.9609E+04	1.7310E-05	7.8377E+19	6.2357E+20
I-134		5.0996E+02	1.9116E-08	8.5910E+16	3.6111E+20
I-135		1.2958E+04	3.6899E-06	1.6460E+19	5.4450E+20
Xe-133		1.6313E+04	8.7148E-05	3.9460E+20	9.3648E+18
Xe-133m		1.1142E+03	2.5309E-06	1.1460E+19	6.4927E+17
Xe-135		1.5493E+05	6.0669E-05	2.7064E+20	1.0218E+20
Xe-135m		4.0664E+03	4.4670E-08	1.9927E+17	7.6868E+19
Cs-134		1.4806E+02	1.1444E-04	5.1429E+20	4.4670E+18
Cs-136		4.4689E+01	6.0974E-07	2.7000E+18	1.3597E+18
Cs-137		1.1497E+02	1.3218E-03	5.8101E+21	3.4681E+18

DW Transport Group Inventory:

Time (h) =	5.0000	Atmosphere	Sump
Noble gases (atoms)		6.7690E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.5471E-03	4.5495E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			1.6908E-06
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.0227E-06
Total I (Ci)			5.0349E+04

DW to WW Transport Group Inventory:

Time (h) = 5.0000 Leakage Transport

Noble gases (atoms)	7.5844E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.7623E+00

WW to DW Transport Group Inventory:

Time (h) = 5.0000 Leakage Transport

Noble gases (atoms)	7.6224E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8124E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	5.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.6925E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.1215E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	5.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.5250E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.2560E-05 4.6337E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) =	5.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 4.1351E+17

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6622E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 5.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1351E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6622E-05

EAB Doses:

Time (h) = 5.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9558E-04	1.3532E-01	4.6129E-03
Accumulated dose (rem)	2.0862E-03	8.1016E-01	2.8003E-02

LPZ Doses:

Time (h) = 5.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0239E-05	1.8421E-02	6.2797E-04
Accumulated dose (rem)	2.8400E-04	1.1029E-01	3.8122E-03

CR Doses:

Time (h) = 5.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8327E-05	7.5537E-02	2.4289E-03
Accumulated dose (rem)	8.5133E-05	3.4681E-01	1.1177E-02

DW Compartment Nuclide Inventory:

Time (h) = 5.5000	Ci	kg	Atoms	Decay
Rb-86	8.0138E-01	9.8489E-09	6.8967E+16	4.4666E+16
Rb-88	5.1437E-02	4.2610E-13	2.9159E+12	1.2414E+19
I-131	5.9838E+03	4.8266E-05	2.2188E+20	3.1180E+20
I-132	2.9523E+03	2.8601E-07	1.3049E+18	4.2999E+20
I-133	1.0525E+04	9.2910E-06	4.2069E+19	6.2448E+20
I-134	1.8744E+02	7.0262E-09	3.1577E+16	3.6113E+20
I-135	6.7110E+03	1.9110E-06	8.5245E+18	5.4510E+20
Xe-133	1.6302E+04	8.7092E-05	3.9435E+20	1.0451E+19
Xe-133m	1.1093E+03	2.5196E-06	1.1409E+19	7.2330E+17
Xe-135	1.4948E+05	5.8532E-05	2.6110E+20	1.1232E+20
Xe-135m	2.1109E+03	2.3189E-08	1.0344E+17	7.7053E+19
Cs-134	8.0806E+01	6.2455E-05	2.8068E+20	4.4740E+18
Cs-136	2.4363E+01	3.3241E-07	1.4719E+18	1.3618E+18
Cs-137	6.2747E+01	7.2138E-04	3.1710E+21	3.4735E+18

DW Transport Group Inventory:

Time (h) = 5.5000	Atmosphere	Sump
Noble gases (atoms)	6.6696E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	8.4394E-04	4.5506E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		9.1663E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.0916E-06
Total I (Ci)		2.6359E+04

DW to WW Transport Group Inventory:

Time (h) = 5.5000 Leakage Transport

Noble gases (atoms)	8.8421E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.7840E+00

WW to DW Transport Group Inventory:

Time (h) = 5.5000 Leakage Transport

Noble gases (atoms)	8.8801E+22
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8345E+00

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	5.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8738E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1246E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	5.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6893E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2581E-05	4.6413E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	5.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5808E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6699E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	5.5000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5808E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6699E-05

EAB Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.9526E-04	1.3977E-01	4.7521E-03
Accumulated dose (rem)		2.3814E-03	9.4993E-01	3.2755E-02

LPZ Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.0195E-05	1.9028E-02	6.4693E-04
Accumulated dose (rem)		3.2419E-04	1.2932E-01	4.4591E-03

CR Doses:

Time (h) =	6.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0664E-05	8.4123E-02	2.7036E-03
Accumulated dose (rem)		1.0580E-04	4.3093E-01	1.3881E-02

DW Compartment Nuclide Inventory:

Time (h) =	6.0000	Ci	kg	Atoms	Decay
Rb-86		4.3703E-01	5.3711E-09	3.7611E+16	4.4703E+16
Rb-88		8.6710E-03	7.1829E-14	4.9155E+11	1.2414E+19
I-131		3.2599E+03	2.6295E-05	1.2088E+20	3.1208E+20
I-132		1.3859E+03	1.3426E-07	6.1254E+17	4.3012E+20
I-133		5.6493E+03	4.9870E-06	2.2581E+19	6.2497E+20
I-134		6.8893E+01	2.5825E-09	1.1606E+16	3.6114E+20
I-135		3.4756E+03	9.8968E-07	4.4148E+18	5.4540E+20
Xe-133		1.6274E+04	8.6944E-05	3.9368E+20	1.1535E+19
Xe-133m		1.1031E+03	2.5056E-06	1.1345E+19	7.9697E+17
Xe-135		1.4404E+05	5.6402E-05	2.5160E+20	1.2209E+20
Xe-135m		1.0945E+03	1.2023E-08	5.3634E+16	7.7150E+19
Cs-134		4.4101E+01	3.4086E-05	1.5319E+20	4.4778E+18
Cs-136		1.3282E+01	1.8122E-07	8.0246E+17	1.3630E+18
Cs-137		3.4246E+01	3.9371E-04	1.7306E+21	3.4765E+18

DW Transport Group Inventory:

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Time (h) =	6.0000	Atmosphere	Sump	
Noble gases (atoms)	6.5668E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	4.6039E-04	4.5513E+00		
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.9699E-07	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.8937E-07	
Total I (Ci)			1.3840E+04	

DW to WW Transport Group Inventory:

Time (h) = 6.0000 Leakage Transport

Noble gases (atoms)	1.0081E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.7958E+00

WW to DW Transport Group Inventory:

Time (h) = 6.0000 Leakage Transport

Noble gases (atoms)	1.0119E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8466E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.0524E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1263E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.8512E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2592E-05	4.6455E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.0198E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6741E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	6.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.0198E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6741E-05

EAB Doses:

Time (h) =	6.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9239E-04	1.4261E-01	4.8374E-03	
Accumulated dose (rem)	2.6738E-03	1.0925E+00	3.7593E-02	

LPZ Doses:

Time (h) =	6.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9805E-05	1.9414E-02	6.5853E-04	
Accumulated dose (rem)	3.6400E-04	1.4873E-01	5.1177E-03	

CR Doses:

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Time (h) =	6.5000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.2898E-05	9.1826E-02	2.9499E-03
Accumulated dose (rem)		1.2869E-04	5.2276E-01	1.6830E-02

DW Compartment Nuclide Inventory:

Time (h) =	6.5000	Ci	kg	Atoms	Decay
Rb-86		4.3999E-01	5.4075E-09	3.7866E+16	4.4733E+16
Rb-88		2.6985E-03	2.2354E-14	1.5297E+11	1.2414E+19
I-131		3.2786E+03	2.6446E-05	1.2157E+20	3.1230E+20
I-132		1.2010E+03	1.1635E-07	5.3084E+17	4.3021E+20
I-133		5.5979E+03	4.9416E-06	2.2375E+19	6.2535E+20
I-134		4.6747E+01	1.7523E-09	7.8752E+15	3.6114E+20
I-135		3.3230E+03	9.4621E-07	4.2209E+18	5.4563E+20
Xe-133		1.6242E+04	8.6771E-05	3.9289E+20	1.2618E+19
Xe-133m		1.0967E+03	2.4910E-06	1.1279E+19	8.7021E+17
Xe-135		1.3874E+05	5.4327E-05	2.4235E+20	1.3150E+20
Xe-135m		7.1327E+02	7.8353E-09	3.4952E+16	7.7203E+19
Cs-134		4.4433E+01	3.4342E-05	1.5434E+20	4.4807E+18
Cs-136		1.3368E+01	1.8239E-07	8.0763E+17	1.3639E+18
Cs-137		3.4504E+01	3.9668E-04	1.7437E+21	3.4788E+18

DW Transport Group Inventory:

Time (h) =	6.5000	Atmosphere	Sump
Noble gases (atoms)		6.4655E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		4.6366E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			4.9752E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.8767E-07
Total I (Ci)			1.3447E+04

DW to WW Transport Group Inventory:

Time (h) = 6.5000 Leakage Transport

Noble gases (atoms)	1.1301E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8045E+00

WW to DW Transport Group Inventory:

Time (h) = 6.5000 Leakage Transport

Noble gases (atoms)	1.1339E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8552E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	6.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.2283E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1276E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	6.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.0106E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2600E-05	4.6486E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	6.5000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.4520E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 4.6772E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 6.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4520E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6772E-05

EAB Doses:

Time (h) = 7.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8757E-04	1.4407E-01	4.8769E-03
Accumulated dose (rem)	2.9614E-03	1.2366E+00	4.2470E-02

LPZ Doses:

Time (h) = 7.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9148E-05	1.9613E-02	6.6391E-04
Accumulated dose (rem)	4.0314E-04	1.6835E-01	5.7816E-03

CR Doses:

Time (h) = 7.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5001E-05	9.8565E-02	3.1652E-03
Accumulated dose (rem)	1.5370E-04	6.2132E-01	1.9996E-02

DW Compartment Nuclide Inventory:

Time (h) = 7.0000	Ci	kg	Atoms	Decay
Rb-86	4.3950E-01	5.4014E-09	3.7823E+16	4.4762E+16
Rb-88	8.3319E-04	6.9020E-15	4.7233E+10	1.2414E+19
I-131	3.2716E+03	2.6389E-05	1.2131E+20	3.1251E+20
I-132	1.0327E+03	1.0004E-07	4.5642E+17	4.3028E+20
I-133	5.5035E+03	4.8582E-06	2.1998E+19	6.2572E+20
I-134	3.1471E+01	1.1797E-09	5.3018E+15	3.6114E+20
I-135	3.1521E+03	8.9756E-07	4.0039E+18	5.4585E+20
Xe-133	1.6209E+04	8.6598E-05	3.9211E+20	1.3698E+19
Xe-133m	1.0902E+03	2.4764E-06	1.1213E+19	9.4303E+17
Xe-135	1.3362E+05	5.2325E-05	2.3342E+20	1.4057E+20
Xe-135m	5.9287E+02	6.5127E-09	2.9052E+16	7.7241E+19
Cs-134	4.4417E+01	3.4330E-05	1.5428E+20	4.4837E+18
Cs-136	1.3348E+01	1.8212E-07	8.0646E+17	1.3648E+18
Cs-137	3.4492E+01	3.9654E-04	1.7431E+21	3.4811E+18

DW Transport Group Inventory:

Time (h) = 7.0000	Atmosphere	Sump
Noble gases (atoms)	6.3676E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6330E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.9421E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.8158E-07
Total I (Ci)		1.2991E+04

DW to WW Transport Group Inventory:

Time (h) = 7.0000 Leakage Transport

Noble gases (atoms)	1.2502E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8131E+00

WW to DW Transport Group Inventory:

Time (h) = 7.0000 Leakage Transport

Noble gases (atoms)	1.2540E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8639E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) =	7.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4014E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1288E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	7.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1676E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2609E-05	4.6516E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	7.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8776E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6803E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	7.0000	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8776E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6803E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 7.5000			
Delta dose (rem)	2.8126E-04	1.4437E-01	4.8781E-03
Accumulated dose (rem)	3.2426E-03	1.3810E+00	4.7348E-02

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 7.5000			
Delta dose (rem)	3.8290E-05	1.9654E-02	6.6407E-04
Accumulated dose (rem)	4.4143E-04	1.8800E-01	6.4456E-03

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 7.5000			
Delta dose (rem)	2.6948E-05	1.0431E-01	3.3486E-03
Accumulated dose (rem)	1.8064E-04	7.2563E-01	2.3344E-02

DW Compartment Nuclide Inventory:

Time (h) =	7.5000	Ci	kg	Atoms	Decay
Rb-86		4.3900E-01	5.3953E-09	3.7781E+16	4.4791E+16
Rb-88		2.5726E-04	2.1311E-15	1.4584E+10	1.2414E+19
I-131		3.2646E+03	2.6333E-05	1.2105E+20	3.1273E+20
I-132		8.8790E+02	8.6019E-08	3.9244E+17	4.3035E+20
I-133		5.4106E+03	4.7763E-06	2.1627E+19	6.2608E+20
I-134		2.1187E+01	7.9421E-10	3.5693E+15	3.6114E+20
I-135		2.9900E+03	8.5142E-07	3.7980E+18	5.4605E+20
Xe-133		1.6177E+04	8.6423E-05	3.9132E+20	1.4777E+19
Xe-133m		1.0838E+03	2.4619E-06	1.1147E+19	1.0154E+18
Xe-135		1.2870E+05	5.0396E-05	2.2481E+20	1.4930E+20
Xe-135m		5.4088E+02	5.9416E-09	2.6505E+16	7.7274E+19
Cs-134		4.4400E+01	3.4317E-05	1.5422E+20	4.4867E+18
Cs-136		1.3329E+01	1.8186E-07	8.0528E+17	1.3656E+18
Cs-137		3.4480E+01	3.9640E-04	1.7425E+21	3.4834E+18

DW Transport Group Inventory:

Time (h) =	7.5000	Atmosphere	Sump
Noble gases (atoms)		6.2730E+20	0.0000E+00

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6295E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.9097E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.7573E-07
Total I (Ci)		1.2574E+04

DW to WW Transport Group Inventory:
Time (h) = 7.5000 Leakage Transport

Noble gases (atoms)	1.3684E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8218E+00

WW to DW Transport Group Inventory:
Time (h) = 7.5000 Leakage Transport

Noble gases (atoms)	1.3722E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8726E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 7.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5719E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1301E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 7.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3222E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2617E-05	4.6547E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 7.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.2968E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6833E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 7.5000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.2968E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6833E-05

EAB Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7385E-04	1.4370E-01	4.8474E-03
Accumulated dose (rem)	3.5165E-03	1.5247E+00	5.2195E-02

LPZ Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7281E-05	1.9563E-02	6.5990E-04
Accumulated dose (rem)	4.7872E-04	2.0756E-01	7.1055E-03

CR Doses:

Time (h) = 8.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem) 2.8722E-05 1.0906E-01 3.5001E-03
 Accumulated dose (rem) 2.0937E-04 8.3469E-01 2.6844E-02

DW Compartment Nuclide Inventory:

Time (h) = 8.0000	Ci	kg	Atoms	Decay
Rb-86	4.3851E-01	5.3893E-09	3.7738E+16	4.4821E+16
Rb-88	7.9432E-05	6.5800E-16	4.5029E+09	1.2414E+19
I-131	3.2576E+03	2.6276E-05	1.2079E+20	3.1295E+20
I-132	7.6343E+02	7.3961E-08	3.3743E+17	4.3040E+20
I-133	5.3193E+03	4.6957E-06	2.1262E+19	6.2644E+20
I-134	1.4263E+01	5.3468E-10	2.4029E+15	3.6115E+20
I-135	2.8363E+03	8.0764E-07	3.6028E+18	5.4625E+20
Xe-133	1.6144E+04	8.6247E-05	3.9052E+20	1.5853E+19
Xe-133m	1.0775E+03	2.4474E-06	1.1082E+19	1.0874E+18
Xe-135	1.2395E+05	4.8537E-05	2.1651E+20	1.5772E+20
Xe-135m	5.0755E+02	5.5755E-09	2.4871E+16	7.7305E+19
Cs-134	4.4384E+01	3.4304E-05	1.5417E+20	4.4896E+18
Cs-136	1.3309E+01	1.8160E-07	8.0411E+17	1.3665E+18
Cs-137	3.4467E+01	3.9626E-04	1.7419E+21	3.4857E+18

DW Transport Group Inventory:

Time (h) = 8.0000	Atmosphere	Sump
Noble gases (atoms)	6.1814E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6261E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.8781E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.7010E-07
Total I (Ci)		1.2191E+04

DW to WW Transport Group Inventory:

Time (h) = 8.0000 Leakage Transport

Noble gases (atoms)	1.4850E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8305E+00

WW to DW Transport Group Inventory:

Time (h) = 8.0000 Leakage Transport

Noble gases (atoms)	1.4888E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8812E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 8.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7399E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1313E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 8.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4745E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2625E-05	4.6577E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 8.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7098E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6864E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	8.0000	
Noble gases (atoms)	0.0000E+00	6.7098E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6864E-05

EAB Doses:

Time (h) =	9.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.2245E-04	2.8231E-01	9.5022E-03
Accumulated dose (rem)		4.0389E-03	1.8070E+00	6.1697E-02

LPZ Doses:

Time (h) =	9.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		4.7854E-05	1.3299E-02	4.7086E-04
Accumulated dose (rem)		5.2657E-04	2.2086E-01	7.5764E-03

CR Doses:

Time (h) =	9.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		5.3481E-05	2.0177E-01	6.4723E-03
Accumulated dose (rem)		2.6285E-04	1.0365E+00	3.3317E-02

DW Compartment Nuclide Inventory:

Time (h) =	9.0000	Ci	kg	Atoms	Decay
Rb-86		4.3752E-01	5.3771E-09	3.7653E+16	4.4879E+16
Rb-88		7.5727E-06	6.2731E-17	4.2929E+08	1.2414E+19
I-131		3.2436E+03	2.6163E-05	1.2027E+20	3.1338E+20
I-132		5.6440E+02	5.4678E-08	2.4945E+17	4.3049E+20
I-133		5.1414E+03	4.5386E-06	2.0551E+19	6.2714E+20
I-134		6.4645E+00	2.4233E-10	1.0891E+15	3.6115E+20
I-135		2.5522E+03	7.2673E-07	3.2418E+18	5.4660E+20
Xe-133		1.6078E+04	8.5894E-05	3.8892E+20	1.7999E+19
Xe-133m		1.0648E+03	2.4186E-06	1.0951E+19	1.2300E+18
Xe-135		1.1497E+05	4.5020E-05	2.0083E+20	1.7362E+20
Xe-135m		4.5499E+02	4.9981E-09	2.2296E+16	7.7361E+19
Cs-134		4.4351E+01	3.4279E-05	1.5405E+20	4.4955E+18
Cs-136		1.3271E+01	1.8107E-07	8.0178E+17	1.3683E+18
Cs-137		3.4443E+01	3.9598E-04	1.7406E+21	3.4903E+18

DW Transport Group Inventory:

Time (h) =	9.0000	Atmosphere	Sump
Noble gases (atoms)		6.0072E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		4.6193E-04	4.5513E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)		4.8170E-07
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		5.5944E-07
Total I (Ci)			1.1508E+04

DW to WW Transport Group Inventory:

Time (h) = 9.0000 Leakage Transport

Noble gases (atoms)	1.7131E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8477E+00

WW to DW Transport Group Inventory:

Time (h) = 9.0000 Leakage Transport

Noble gases (atoms)	1.7169E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8985E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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Time (h) =	9.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	3.0687E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	3.1338E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway		
Time (h) =	9.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	2.7726E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2642E-05	0.0000E+00	4.6638E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway		
Time (h) =	9.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	7.5181E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	4.6925E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway		
Time (h) =	9.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	0.0000E+00	7.5181E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	0.0000E+00	4.6925E-05

EAB Doses:

Time (h) =	10.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8585E-04	2.7169E-01	9.1219E-03	
Accumulated dose (rem)	4.5248E-03	2.0787E+00	7.0819E-02	

LPZ Doses:

Time (h) =	10.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4502E-05	1.2798E-02	4.5132E-04	
Accumulated dose (rem)	5.7107E-04	2.3366E-01	8.0277E-03	

CR Doses:

Time (h) =	10.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5799E-05	1.6884E-01	5.4137E-03	
Accumulated dose (rem)	3.0864E-04	1.2053E+00	3.8730E-02	

DW Compartment Nuclide Inventory:

Time (h) =	10.0000	Ci	kg	Atoms	Decay
Rb-86	4.3654E-01	5.3651E-09	3.7569E+16	4.4937E+16	
Rb-88	7.2194E-07	5.9805E-18	4.0926E+07	1.2414E+19	
I-131	3.2297E+03	2.6051E-05	1.1976E+20	3.1381E+20	
I-132	4.1725E+02	4.0423E-08	1.8442E+17	4.3056E+20	
I-133	4.9694E+03	4.3868E-06	1.9863E+19	6.2781E+20	
I-134	2.9299E+00	1.0983E-10	4.9359E+14	3.6115E+20	
I-135	2.2965E+03	6.5392E-07	2.9170E+18	5.4693E+20	
Xe-133	1.6011E+04	8.5537E-05	3.8730E+20	2.0135E+19	
Xe-133m	1.0523E+03	2.3901E-06	1.0822E+19	1.3710E+18	
Xe-135	1.0663E+05	4.1755E-05	1.8626E+20	1.8837E+20	
Xe-135m	4.0930E+02	4.4962E-09	2.0057E+16	7.7412E+19	
Cs-134	4.4318E+01	3.4253E-05	1.5394E+20	4.5014E+18	
Cs-136	1.3232E+01	1.8054E-07	7.9945E+17	1.3701E+18	
Cs-137	3.4419E+01	3.9570E-04	1.7394E+21	3.4949E+18	

DW Transport Group Inventory:

Time (h) =	10.0000	Atmosphere	Sump
Noble gases (atoms)	5.8441E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	

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Aerosols (kg)	4.6127E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.7584E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.4946E-07
Total I (Ci)			1.0916E+04

DW to WW Transport Group Inventory:

Time (h) = 10.0000 Leakage Transport

Noble gases (atoms)	1.9348E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8650E+00

WW to DW Transport Group Inventory:

Time (h) = 10.0000 Leakage Transport

Noble gases (atoms)	1.9386E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9157E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 10.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3884E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1363E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 10.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0624E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2658E-05	4.6699E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 10.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.3039E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6986E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 10.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.3039E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.6986E-05

EAB Doses:

Time (h) = 11.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4786E-04	2.5792E-01	8.6415E-03
Accumulated dose (rem)	4.9726E-03	2.3366E+00	7.9461E-02

LPZ Doses:

Time (h) = 11.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1022E-05	1.2150E-02	4.2700E-04
Accumulated dose (rem)	6.1209E-04	2.4581E-01	8.4547E-03

CR Doses:

Time (h) = 11.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0742E-05	1.4481E-01	4.6418E-03
Accumulated dose (rem)	3.4939E-04	1.3501E+00	4.3372E-02

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DW Compartment Nuclide Inventory:

Time (h) = 11.0000	Ci	kg	Atoms	Decay
Rb-86	4.3556E-01	5.3530E-09	3.7484E+16	4.4995E+16
Rb-88	6.8827E-08	5.7015E-19	3.9017E+06	1.2414E+19
I-131	3.2159E+03	2.5940E-05	1.1925E+20	3.1424E+20
I-132	3.0847E+02	2.9884E-08	1.3634E+17	4.3060E+20
I-133	4.8031E+03	4.2400E-06	1.9198E+19	6.2846E+20
I-134	1.3279E+00	4.9778E-11	2.2371E+14	3.6115E+20
I-135	2.0664E+03	5.8841E-07	2.6248E+18	5.4722E+20
Xe-133	1.5944E+04	8.5177E-05	3.8568E+20	2.2263E+19
Xe-133m	1.0398E+03	2.3618E-06	1.0694E+19	1.5103E+18
Xe-135	9.8895E+04	3.8726E-05	1.7275E+20	2.0205E+20
Xe-135m	3.6829E+02	4.0456E-09	1.8047E+16	7.7457E+19
Cs-134	4.4285E+01	3.4228E-05	1.5382E+20	4.5073E+18
Cs-136	1.3194E+01	1.8002E-07	7.9713E+17	1.3718E+18
Cs-137	3.4395E+01	3.9542E-04	1.7382E+21	3.4994E+18

DW Transport Group Inventory:

Time (h) = 11.0000	Atmosphere	Sump
Noble gases (atoms)	5.6914E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6063E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.7021E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.4008E-07
Total I (Ci)		1.0395E+04

DW to WW Transport Group Inventory:

Time (h) = 11.0000 Leakage Transport

Noble gases (atoms)	2.1507E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8822E+00

WW to DW Transport Group Inventory:

Time (h) = 11.0000 Leakage Transport

Noble gases (atoms)	2.1545E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9330E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 11.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	3.6996E+18
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	3.1388E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 11.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	3.3445E+17
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2675E-05	4.6759E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 11.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	9.0688E+17
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	4.7047E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
Time (h) = 11.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.0688E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7047E-05

EAB Doses:

Time (h) = 12.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1010E-04	2.4229E-01	8.1033E-03
Accumulated dose (rem)	5.3827E-03	2.5789E+00	8.7564E-02

LPZ Doses:

Time (h) = 12.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7563E-05	1.1414E-02	3.9997E-04
Accumulated dose (rem)	6.4966E-04	2.5722E-01	8.8547E-03

CR Doses:

Time (h) = 12.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7082E-05	1.2665E-01	4.0589E-03
Accumulated dose (rem)	3.8647E-04	1.4768E+00	4.7431E-02

DW Compartment Nuclide Inventory:

Time (h) = 12.0000	Ci	kg	Atoms	Decay
Rb-86	4.3458E-01	5.3410E-09	3.7400E+16	4.5053E+16
Rb-88	6.5616E-09	5.4356E-20	3.7197E+05	1.2414E+19
I-131	3.2021E+03	2.5828E-05	1.1873E+20	3.1467E+20
I-132	2.2804E+02	2.2093E-08	1.0079E+17	4.3064E+20
I-133	4.6424E+03	4.0982E-06	1.8556E+19	6.2909E+20
I-134	6.0184E-01	2.2560E-11	1.0139E+14	3.6115E+20
I-135	1.8594E+03	5.2946E-07	2.3618E+18	5.4748E+20
Xe-133	1.5876E+04	8.4815E-05	3.8403E+20	2.4382E+19
Xe-133m	1.0275E+03	2.3338E-06	1.0567E+19	1.6480E+18
Xe-135	9.1715E+04	3.5914E-05	1.6021E+20	2.1474E+20
Xe-135m	3.3139E+02	3.6403E-09	1.6239E+16	7.7498E+19
Cs-134	4.4252E+01	3.4203E-05	1.5371E+20	4.5132E+18
Cs-136	1.3155E+01	1.7950E-07	7.9482E+17	1.3736E+18
Cs-137	3.4370E+01	3.9514E-04	1.7369E+21	3.5040E+18

DW Transport Group Inventory:

Time (h) = 12.0000	Atmosphere	Sump
Noble gases (atoms)	5.5482E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.6001E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.6479E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.3121E-07
Total I (Ci)		9.9325E+03

DW to WW Transport Group Inventory:

Time (h) = 12.0000 Leakage Transport

Noble gases (atoms)	2.3610E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.8994E+00

WW to DW Transport Group Inventory:

Time (h) = 12.0000 Leakage Transport

Noble gases (atoms)	2.3648E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9502E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 12.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0028E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1413E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 12.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6193E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2691E-05	4.6820E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 12.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8140E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7108E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 12.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8140E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7108E-05

EAB Doses:

Time (h) = 13.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7485E-04	2.2587E-01	7.5436E-03
Accumulated dose (rem)	5.7576E-03	2.8048E+00	9.5108E-02

LPZ Doses:

Time (h) = 13.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4335E-05	1.0640E-02	3.7203E-04
Accumulated dose (rem)	6.8399E-04	2.6786E-01	9.2267E-03

CR Doses:

Time (h) = 13.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4463E-05	1.1247E-01	3.6045E-03
Accumulated dose (rem)	4.2093E-04	1.5892E+00	5.1036E-02

DW Compartment Nuclide Inventory:

Time (h) = 13.0000	Ci	kg	Atoms	Decay
Rb-86	4.3360E-01	5.3290E-09	3.7316E+16	4.5111E+16
Rb-88	6.2556E-10	5.1820E-21	3.5462E+04	1.2414E+19
I-131	3.1884E+03	2.5718E-05	1.1823E+20	3.1510E+20
I-132	1.6859E+02	1.6333E-08	7.4514E+16	4.3067E+20
I-133	4.4871E+03	3.9611E-06	1.7935E+19	6.2970E+20
I-134	2.7277E-01	1.0225E-11	4.5952E+13	3.6115E+20
I-135	1.6731E+03	4.7641E-07	2.1252E+18	5.4771E+20
Xe-133	1.5807E+04	8.4449E-05	3.8238E+20	2.6492E+19
Xe-133m	1.0152E+03	2.3060E-06	1.0442E+19	1.7840E+18
Xe-135	8.5051E+04	3.3305E-05	1.4857E+20	2.2650E+20
Xe-135m	3.8351E+02	4.2129E-09	1.8793E+16	7.7531E+19
Cs-134	4.4220E+01	3.4177E-05	1.5360E+20	4.5191E+18
Cs-136	1.3117E+01	1.7897E-07	7.9251E+17	1.3753E+18
Cs-137	3.4346E+01	3.9487E-04	1.7357E+21	3.5086E+18

DW Transport Group Inventory:

Time (h) = 13.0000	Atmosphere	Sump
Noble gases (atoms)	5.4141E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5940E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.5956E-07

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 5.2281E-07
 Total I (Ci) 9.5174E+03

DW to WW Transport Group Inventory:
 Time (h) = 13.0000 Leakage Transport

Noble gases (atoms) 2.5664E+23
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.9166E+00

WW to DW Transport Group Inventory:
 Time (h) = 13.0000 Leakage Transport

Noble gases (atoms) 2.5702E+23
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.9674E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 13.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2989E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1437E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 13.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8877E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2707E-05	4.6881E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 13.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0542E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7169E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 13.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0542E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7169E-05

EAB Doses:

Time (h) = 14.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5372E-04	2.0989E-01	7.0133E-03
Accumulated dose (rem)	6.1113E-03	3.0147E+00	1.0212E-01

LPZ Doses:

Time (h) = 14.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2400E-05	9.8870E-03	3.4611E-04
Accumulated dose (rem)	7.1639E-04	2.7775E-01	9.5728E-03

CR Doses:

Time (h) = 14.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3403E-05	1.0137E-01	3.2502E-03
Accumulated dose (rem)	4.5434E-04	1.6906E+00	5.4286E-02

DW Compartment Nuclide Inventory:

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Time (h) = 14.0000	Ci	kg	Atoms	Decay
Rb-86	4.3263E-01	5.3170E-09	3.7232E+16	4.5169E+16
I-131	3.1747E+03	2.5608E-05	1.1772E+20	3.1552E+20
I-132	1.2464E+02	1.2075E-08	5.5087E+16	4.3068E+20
I-133	4.3370E+03	3.8286E-06	1.7335E+19	6.3029E+20
I-134	1.2363E-01	4.6342E-12	2.0827E+13	3.6115E+20
I-135	1.5055E+03	4.2868E-07	1.9123E+18	5.4792E+20
Xe-133	1.5739E+04	8.4082E-05	3.8072E+20	2.8590E+19
Xe-133m	1.0031E+03	2.2785E-06	1.0317E+19	1.9183E+18
Xe-135	7.8864E+04	3.0882E-05	1.3776E+20	2.3740E+20
Xe-135m	6.7246E+02	7.3870E-09	3.2952E+16	7.7548E+19
Cs-134	4.4187E+01	3.4152E-05	1.5348E+20	4.5250E+18
Cs-136	1.3079E+01	1.7846E-07	7.9021E+17	1.3771E+18
Cs-137	3.4322E+01	3.9459E-04	1.7345E+21	3.5132E+18

DW Transport Group Inventory:

Time (h) = 14.0000	Atmosphere	Sump	
Noble gases (atoms)	5.2883E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5880E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.5451E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.1481E-07
Total I (Ci)			9.1419E+03

DW to WW Transport Group Inventory:

Time (h) = 14.0000 Leakage Transport

Noble gases (atoms)	2.7687E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9338E+00

WW to DW Transport Group Inventory:

Time (h) = 14.0000 Leakage Transport

Noble gases (atoms)	2.7725E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9845E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 14.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	4.5905E+18
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	3.1462E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 14.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	4.1521E+17
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.2724E-05	4.6941E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 14.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	1.1259E+18
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	4.7230E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

Time (h) = 14.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	1.1259E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7230E-05

EAB Doses:

Time (h) = 15.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4128E-04	1.9319E-01	6.4689E-03
Accumulated dose (rem)	6.4526E-03	3.2079E+00	1.0859E-01

LPZ Doses:

Time (h) = 15.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1260E-05	9.1008E-03	3.1991E-04
Accumulated dose (rem)	7.4765E-04	2.8685E-01	9.8927E-03

CR Doses:

Time (h) = 15.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1597E-05	9.1486E-02	2.9336E-03
Accumulated dose (rem)	4.8593E-04	1.7821E+00	5.7219E-02

DW Compartment Nuclide Inventory:

Time (h) = 15.0000	Ci	kg	Atoms	Decay
Rb-86	4.3166E-01	5.3050E-09	3.7148E+16	4.5226E+16
I-131	3.1611E+03	2.5498E-05	1.1721E+20	3.1594E+20
I-132	9.2142E+01	8.9266E-09	4.0725E+16	4.3070E+20
I-133	4.1919E+03	3.7005E-06	1.6755E+19	6.3085E+20
I-134	5.6030E-02	2.1003E-12	9.4392E+12	3.6115E+20
I-135	1.3546E+03	3.8574E-07	1.7207E+18	5.4811E+20
Xe-133	1.5669E+04	8.3713E-05	3.7904E+20	3.0679E+19
Xe-133m	9.9113E+02	2.2513E-06	1.0194E+19	2.0509E+18
Xe-135	7.3132E+04	2.8638E-05	1.2775E+20	2.4751E+20
Xe-135m	6.2668E+02	6.8841E-09	3.0709E+16	7.7579E+19
Cs-134	4.4154E+01	3.4127E-05	1.5337E+20	4.5309E+18
Cs-136	1.3041E+01	1.7794E-07	7.8791E+17	1.3788E+18
Cs-137	3.4298E+01	3.9431E-04	1.7333E+21	3.5177E+18

DW Transport Group Inventory:

Time (h) = 15.0000	Atmosphere	Sump
Noble gases (atoms)	5.1702E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5821E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.4963E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.0719E-07
Total I (Ci)		8.7999E+03

DW to WW Transport Group Inventory:

Time (h) = 15.0000 Leakage Transport

Noble gases (atoms)	2.9663E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9509E+00

WW to DW Transport Group Inventory:

Time (h) = 15.0000 Leakage Transport

Noble gases (atoms)	2.9701E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0017E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 15.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 4.8754E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.1487E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 15.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4103E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2740E-05	4.7001E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 15.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1959E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7291E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 15.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1959E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7291E-05

EAB Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0763E-04	1.7706E-01	5.9216E-03
Accumulated dose (rem)	6.7602E-03	3.3849E+00	1.1451E-01

LPZ Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8178E-05	8.3408E-03	2.9263E-04
Accumulated dose (rem)	7.7583E-04	2.9519E-01	1.0185E-02

CR Doses:

Time (h) = 16.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9576E-05	8.2922E-02	2.6589E-03
Accumulated dose (rem)	5.1551E-04	1.8650E+00	5.9878E-02

DW Compartment Nuclide Inventory:

Time (h) = 16.0000	Ci	kg	Atoms	Decay
Rb-86	4.3069E-01	5.2931E-09	3.7065E+16	4.5284E+16
I-131	3.1475E+03	2.5389E-05	1.1671E+20	3.1636E+20
I-132	6.8119E+01	6.5993E-09	3.0108E+16	4.3071E+20
I-133	4.0517E+03	3.5767E-06	1.6195E+19	6.3140E+20
I-134	2.5394E-02	9.5193E-13	4.2781E+12	3.6115E+20
I-135	1.2189E+03	3.4709E-07	1.5483E+18	5.4829E+20
Xe-133	1.5600E+04	8.3341E-05	3.7736E+20	3.2759E+19
Xe-133m	9.7924E+02	2.2243E-06	1.0071E+19	2.1820E+18
Xe-135	6.7815E+04	2.6555E-05	1.1846E+20	2.5688E+20
Xe-135m	5.6532E+02	6.2101E-09	2.7702E+16	7.7608E+19
Cs-134	4.4121E+01	3.4101E-05	1.5326E+20	4.5368E+18
Cs-136	1.3003E+01	1.7742E-07	7.8563E+17	1.3805E+18
Cs-137	3.4273E+01	3.9403E-04	1.7320E+21	3.5223E+18

DW Transport Group Inventory:

Time (h) = 16.0000	Atmosphere	Sump	
Noble gases (atoms)	5.0592E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5763E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.4491E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.9990E-07
Total I (Ci)			8.4863E+03

DW to WW Transport Group Inventory:

Time (h) = 16.0000 Leakage Transport

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Noble gases (atoms) 3.1594E+23
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.9680E+00

WW to DW Transport Group Inventory:
 Time (h) = 16.0000 Leakage Transport

Noble gases (atoms) 3.1633E+23
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 2.0188E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1539E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1511E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6628E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2756E-05	4.7062E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2644E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7352E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 16.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2644E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7352E-05

EAB Doses:

Time (h) = 17.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7572E-04	1.6170E-01	5.4011E-03
Accumulated dose (rem)	7.0359E-03	3.5466E+00	1.1991E-01

LPZ Doses:

Time (h) = 17.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5255E-05	7.6173E-03	2.6669E-04
Accumulated dose (rem)	8.0108E-04	3.0281E-01	1.0452E-02

CR Doses:

Time (h) = 17.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7629E-05	7.5340E-02	2.4158E-03
Accumulated dose (rem)	5.4314E-04	1.9404E+00	6.2294E-02

DW Compartment Nuclide Inventory:

Time (h) = 17.0000	Ci	kg	Atoms	Decay
Rb-86	4.2972E-01	5.2812E-09	3.6981E+16	4.5341E+16
I-131	3.1340E+03	2.5280E-05	1.1621E+20	3.1678E+20
I-132	5.0359E+01	4.8788E-09	2.2258E+16	4.3072E+20

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I-133	3.9161E+03	3.4570E-06	1.5653E+19	6.3193E+20
I-134	1.1509E-02	4.3144E-13	1.9389E+12	3.6115E+20
I-135	1.0968E+03	3.1232E-07	1.3932E+18	5.4844E+20
Xe-133	1.5530E+04	8.2967E-05	3.7567E+20	3.4830E+19
Xe-133m	9.6745E+02	2.1975E-06	9.9501E+18	2.3115E+18
Xe-135	6.2882E+04	2.4623E-05	1.0984E+20	2.6557E+20
Xe-135m	5.0878E+02	5.5889E-09	2.4931E+16	7.7634E+19
Cs-134	4.4089E+01	3.4076E-05	1.5314E+20	4.5426E+18
Cs-136	1.2966E+01	1.7691E-07	7.8334E+17	1.3823E+18
Cs-137	3.4249E+01	3.9375E-04	1.7308E+21	3.5269E+18

DW Transport Group Inventory:

Time (h) = 17.0000	Atmosphere	Sump
Noble gases (atoms)	4.9549E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5706E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.4033E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.9292E-07
Total I (Ci)		8.1974E+03

DW to WW Transport Group Inventory:

Time (h) = 17.0000 Leakage Transport

Noble gases (atoms)	3.3485E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.9851E+00

WW to DW Transport Group Inventory:

Time (h) = 17.0000 Leakage Transport

Noble gases (atoms)	3.3523E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0359E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 17.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4264E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1536E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 17.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9099E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2773E-05	4.7122E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 17.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3314E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7412E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 17.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3314E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7412E-05

EAB Doses:

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Time (h) = 18.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4683E-04	1.4725E-01	4.9127E-03
Accumulated dose (rem)	7.2828E-03	3.6939E+00	1.2483E-01

LPZ Doses:

Time (h) = 18.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2608E-05	6.9364E-03	2.4240E-04
Accumulated dose (rem)	8.2369E-04	3.0975E-01	1.0694E-02

CR Doses:

Time (h) = 18.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5789E-05	6.8524E-02	2.1973E-03
Accumulated dose (rem)	5.6893E-04	2.0089E+00	6.4491E-02

DW Compartment Nuclide Inventory:

Time (h) = 18.0000	Ci	kg	Atoms	Decay
Rb-86	4.2875E-01	5.2693E-09	3.6898E+16	4.5398E+16
I-131	3.1206E+03	2.5171E-05	1.1571E+20	3.1720E+20
I-132	3.7230E+01	3.6068E-09	1.6455E+16	4.3072E+20
I-133	3.7851E+03	3.3414E-06	1.5129E+19	6.3245E+20
I-134	5.2164E-03	1.9554E-13	8.7878E+11	3.6115E+20
I-135	9.8693E+02	2.8103E-07	1.2536E+18	5.4858E+20
Xe-133	1.5460E+04	8.2592E-05	3.7397E+20	3.6891E+19
Xe-133m	9.5578E+02	2.1710E-06	9.8300E+18	2.4394E+18
Xe-135	5.8305E+04	2.2831E-05	1.0185E+20	2.7363E+20
Xe-135m	4.5781E+02	5.0291E-09	2.2434E+16	7.7657E+19
Cs-134	4.4056E+01	3.4051E-05	1.5303E+20	4.5485E+18
Cs-136	1.2928E+01	1.7639E-07	7.8107E+17	1.3840E+18
Cs-137	3.4225E+01	3.9347E-04	1.7296E+21	3.5314E+18

DW Transport Group Inventory:

Time (h) = 18.0000	Atmosphere	Sump
Noble gases (atoms)	4.8567E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5650E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.3589E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.8622E-07
Total I (Ci)		7.9299E+03

DW to WW Transport Group Inventory:

Time (h) = 18.0000 Leakage Transport

Noble gases (atoms)	3.5336E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0022E+00

WW to DW Transport Group Inventory:

Time (h) = 18.0000 Leakage Transport

Noble gases (atoms)	3.5374E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0530E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 18.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6933E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1561E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 18.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1518E+17

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2789E-05	4.7182E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 18.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3970E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7473E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 18.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3970E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7473E-05

EAB Doses:

Time (h) = 19.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2086E-04	1.3377E-01	4.4587E-03
Accumulated dose (rem)	7.5036E-03	3.8276E+00	1.2928E-01

LPZ Doses:

Time (h) = 19.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0230E-05	6.3016E-03	2.1986E-04
Accumulated dose (rem)	8.4392E-04	3.1605E-01	1.0914E-02

CR Doses:

Time (h) = 19.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4040E-05	6.2336E-02	1.9989E-03
Accumulated dose (rem)	5.9297E-04	2.0712E+00	6.6490E-02

DW Compartment Nuclide Inventory:

Time (h) = 19.0000	Ci	kg	Atoms	Decay
Rb-86	4.2779E-01	5.2575E-09	3.6815E+16	4.5455E+16
I-131	3.1072E+03	2.5063E-05	1.1522E+20	3.1761E+20
I-132	2.7524E+01	2.6665E-09	1.2165E+16	4.3073E+20
I-133	3.6585E+03	3.2296E-06	1.4623E+19	6.3294E+20
I-134	2.3642E-03	8.8624E-14	3.9829E+11	3.6115E+20
I-135	8.8805E+02	2.5287E-07	1.1280E+18	5.4870E+20
Xe-133	1.5389E+04	8.2215E-05	3.7226E+20	3.8943E+19
Xe-133m	9.4422E+02	2.1447E-06	9.7110E+18	2.5658E+18
Xe-135	5.4059E+04	2.1169E-05	9.4430E+19	2.8110E+20
Xe-135m	4.1195E+02	4.5252E-09	2.0186E+16	7.7678E+19
Cs-134	4.4023E+01	3.4026E-05	1.5292E+20	4.5544E+18
Cs-136	1.2890E+01	1.7588E-07	7.7880E+17	1.3857E+18
Cs-137	3.4201E+01	3.9320E-04	1.7284E+21	3.5360E+18

DW Transport Group Inventory:

Time (h) = 19.0000	Atmosphere	Sump	
Noble gases (atoms)	4.7642E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5595E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.3158E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.7979E-07
Total I (Ci)			7.6813E+03

DW to WW Transport Group Inventory:

Time (h) = 19.0000 Leakage Transport

Noble gases (atoms)	3.7151E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0193E+00

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WW to DW Transport Group Inventory:

Time (h) = 19.0000 Leakage Transport

Noble gases (atoms)	3.7189E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0700E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 19.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9549E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1585E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 19.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3890E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2805E-05	4.7242E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 19.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4613E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7533E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 19.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4613E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7533E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 20.0000			
Delta dose (rem)	1.9761E-04	1.2130E-01	4.0394E-03
Accumulated dose (rem)	7.7012E-03	3.9489E+00	1.3332E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 20.0000			
Delta dose (rem)	1.8101E-05	5.7141E-03	1.9908E-04
Accumulated dose (rem)	8.6202E-04	3.2176E-01	1.1113E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 20.0000			
Delta dose (rem)	2.2371E-05	5.6686E-02	1.8178E-03
Accumulated dose (rem)	6.1534E-04	2.1279E+00	6.8308E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 20.0000				
Rb-86	4.2683E-01	5.2457E-09	3.6733E+16	4.5512E+16
I-131	3.0939E+03	2.4956E-05	1.1472E+20	3.1802E+20
I-132	2.0348E+01	1.9713E-09	8.9934E+15	4.3073E+20
I-133	3.5361E+03	3.1215E-06	1.4134E+19	6.3342E+20
I-134	1.0715E-03	4.0167E-14	1.8051E+11	3.6115E+20
I-135	7.9908E+02	2.2754E-07	1.0150E+18	5.4882E+20
Xe-133	1.5318E+04	8.1836E-05	3.7055E+20	4.0986E+19
Xe-133m	9.3276E+02	2.1187E-06	9.5932E+18	2.6907E+18

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Xe-135	5.0120E+04	1.9626E-05	8.7549E+19	2.8803E+20
Xe-135m	3.7068E+02	4.0719E-09	1.8164E+16	7.7697E+19
Cs-134	4.3991E+01	3.4000E-05	1.5280E+20	4.5602E+18
Cs-136	1.2853E+01	1.7537E-07	7.7654E+17	1.3874E+18
Cs-137	3.4177E+01	3.9292E-04	1.7272E+21	3.5405E+18

DW Transport Group Inventory:

Time (h) =	20.0000	Atmosphere	Sump	
Noble gases (atoms)	4.6771E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	4.5541E-04	4.5513E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)			4.2739E-07	
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.7359E-07	
Total I (Ci)			7.4494E+03	

DW to WW Transport Group Inventory:

Time (h) = 20.0000 Leakage Transport

Noble gases (atoms)	3.8931E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0363E+00

WW to DW Transport Group Inventory:

Time (h) = 20.0000 Leakage Transport

Noble gases (atoms)	3.8969E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0871E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	20.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.2115E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1610E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	20.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.6216E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2822E-05	4.7302E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	20.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5244E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7593E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	20.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.5244E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7593E-05

EAB Doses:

Time (h) =	21.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.7685E-04	1.0983E-01	3.6546E-03
Accumulated dose (rem)		7.8781E-03	4.0588E+00	1.3698E-01

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LPZ Doses:

Time (h) =	21.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.6199E-05	5.1737E-03	1.8002E-04
Accumulated dose (rem)		8.7822E-04	3.2694E-01	1.1293E-02

CR Doses:

Time (h) =	21.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		2.0779E-05	5.1512E-02	1.6520E-03
Accumulated dose (rem)		6.3612E-04	2.1794E+00	6.9960E-02

DW Compartment Nuclide Inventory:

Time (h) =	21.0000	Ci	kg	Atoms	Decay
Rb-86		4.2587E-01	5.2339E-09	3.6650E+16	4.5569E+16
I-131		3.0807E+03	2.4849E-05	1.1423E+20	3.1843E+20
I-132		1.5043E+01	1.4573E-09	6.6487E+15	4.3073E+20
I-133		3.4178E+03	3.0171E-06	1.3661E+19	6.3388E+20
I-134		4.8564E-04	1.8204E-14	8.1813E+10	3.6115E+20
I-135		7.1903E+02	2.0474E-07	9.1332E+17	5.4892E+20
Xe-133		1.5247E+04	8.1456E-05	3.6882E+20	4.3019E+19
Xe-133m		9.2142E+02	2.0929E-06	9.4766E+18	2.8141E+18
Xe-135		4.6466E+04	1.8195E-05	8.1167E+19	2.9445E+20
Xe-135m		3.3354E+02	3.6639E-09	1.6344E+16	7.7714E+19
Cs-134		4.3958E+01	3.3975E-05	1.5269E+20	4.5661E+18
Cs-136		1.2816E+01	1.7486E-07	7.7429E+17	1.3891E+18
Cs-137		3.4153E+01	3.9264E-04	1.7259E+21	3.5451E+18

DW Transport Group Inventory:

Time (h) =	21.0000	Atmosphere	Sump
Noble gases (atoms)		4.5949E+20	0.0000E+00
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		4.5487E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)			4.2332E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.6763E-07
Total I (Ci)			7.2325E+03

DW to WW Transport Group Inventory:

Time (h) = 21.0000 Leakage Transport

Noble gases (atoms)	4.0679E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0533E+00

WW to DW Transport Group Inventory:

Time (h) = 21.0000 Leakage Transport

Noble gases (atoms)	4.0717E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1041E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	21.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.4635E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1634E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	21.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	5.8500E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2838E-05	4.7362E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) = 21.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5863E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7654E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 21.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5863E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7654E-05

EAB Doses:

Time (h) = 22.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5836E-04	9.9327E-02	3.3029E-03
Accumulated dose (rem)	8.0364E-03	4.1581E+00	1.4028E-01

LPZ Doses:

Time (h) = 22.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4505E-05	4.6790E-03	1.6264E-04
Accumulated dose (rem)	8.9273E-04	3.3161E-01	1.1456E-02

CR Doses:

Time (h) = 22.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9266E-05	4.6771E-02	1.5001E-03
Accumulated dose (rem)	6.5538E-04	2.2262E+00	7.1460E-02

DW Compartment Nuclide Inventory:

Time (h) = 22.0000	Ci	kg	Atoms	Decay
Rb-86	4.2491E-01	5.2221E-09	3.6568E+16	4.5625E+16
I-131	3.0675E+03	2.4743E-05	1.1374E+20	3.1884E+20
I-132	1.1121E+01	1.0774E-09	4.9153E+15	4.3073E+20
I-133	3.3035E+03	2.9162E-06	1.3204E+19	6.3433E+20
I-134	2.2010E-04	8.2507E-15	3.7080E+10	3.6115E+20
I-135	6.4699E+02	1.8423E-07	8.2182E+17	5.4901E+20
Xe-133	1.5176E+04	8.1074E-05	3.6710E+20	4.5043E+19
Xe-133m	9.1018E+02	2.0674E-06	9.3610E+18	2.9359E+18
Xe-135	4.3077E+04	1.6868E-05	7.5247E+19	3.0041E+20
Xe-135m	3.0012E+02	3.2969E-09	1.4707E+16	7.7729E+19
Cs-134	4.3925E+01	3.3950E-05	1.5258E+20	4.5719E+18
Cs-136	1.2778E+01	1.7435E-07	7.7204E+17	1.3908E+18
Cs-137	3.4129E+01	3.9237E-04	1.7247E+21	3.5496E+18

DW Transport Group Inventory:

Time (h) = 22.0000	Atmosphere	Sump
Noble gases (atoms)	4.5172E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5434E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.1936E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.6187E-07
Total I (Ci)		7.0290E+03

DW to WW Transport Group Inventory:

Time (h) = 22.0000 Leakage Transport

Noble gases (atoms)	4.2396E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0703E+00

WW to DW Transport Group Inventory:

Time (h) = 22.0000 Leakage Transport

Noble gases (atoms)	4.2434E+23
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Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1211E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 22.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7110E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1659E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 22.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0744E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2854E-05	4.7422E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 22.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6471E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7714E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 22.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6471E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7714E-05

EAB Doses:

Time (h) = 23.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4190E-04	8.9754E-02	2.9829E-03
Accumulated dose (rem)	8.1783E-03	4.2479E+00	1.4326E-01

LPZ Doses:

Time (h) = 23.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2997E-05	4.2280E-03	1.4683E-04
Accumulated dose (rem)	9.0573E-04	3.3584E-01	1.1603E-02

CR Doses:

Time (h) = 23.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7832E-05	4.2429E-02	1.3609E-03
Accumulated dose (rem)	6.7321E-04	2.2686E+00	7.2821E-02

DW Compartment Nuclide Inventory:

Time (h) = 23.0000	Ci	kg	Atoms	Decay
Rb-86	4.2395E-01	5.2104E-09	3.6485E+16	4.5682E+16
I-131	3.0543E+03	2.4637E-05	1.1326E+20	3.1925E+20
I-132	8.2215E+00	7.9650E-10	3.6338E+15	4.3074E+20
I-133	3.1929E+03	2.8186E-06	1.2762E+19	6.3476E+20
I-134	9.9756E-05	3.7394E-15	1.6806E+10	3.6115E+20
I-135	5.8217E+02	1.6577E-07	7.3949E+17	5.4909E+20
Xe-133	1.5104E+04	8.0692E-05	3.6537E+20	4.7058E+19
Xe-133m	8.9906E+02	2.0421E-06	9.2466E+18	3.0563E+18
Xe-135	3.9934E+04	1.5638E-05	6.9757E+19	3.0593E+20
Xe-135m	2.7006E+02	2.9666E-09	1.3233E+16	7.7743E+19
Cs-134	4.3893E+01	3.3925E-05	1.5246E+20	4.5778E+18
Cs-136	1.2741E+01	1.7385E-07	7.6980E+17	1.3925E+18
Cs-137	3.4105E+01	3.9209E-04	1.7235E+21	3.5542E+18

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DW Transport Group Inventory:

Time (h) =	23.0000	Atmosphere	Sump
Noble gases (atoms)	4.4438E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5381E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.1550E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.5632E-07
Total I (Ci)			6.8376E+03

DW to WW Transport Group Inventory:

Time (h) = 23.0000 Leakage Transport

Noble gases (atoms)	4.4084E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.0873E+00

WW to DW Transport Group Inventory:

Time (h) = 23.0000 Leakage Transport

Noble gases (atoms)	4.4122E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1381E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	23.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.9543E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1683E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	23.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	6.2950E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2870E-05	4.7482E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	23.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7070E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7774E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	23.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	1.7070E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7774E-05

EAB Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.2727E-04	8.1058E-02	2.6926E-03
Accumulated dose (rem)		8.3056E-03	4.3289E+00	1.4596E-01

LPZ Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)		1.1658E-05	3.8184E-03	1.3250E-04
Accumulated dose (rem)		9.1738E-04	3.3966E-01	1.1735E-02

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CR Doses:

Time (h) =	24.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6479E-05	3.8457E-02	1.2336E-03	
Accumulated dose (rem)	6.8969E-04	2.3071E+00	7.4055E-02	

DW Compartment Nuclide Inventory:

Time (h) =	24.0000	Ci	kg	Atoms	Decay
Rb-86	4.2300E-01	5.1986E-09	3.6403E+16	4.5738E+16	
I-131	3.0412E+03	2.4531E-05	1.1277E+20	3.1966E+20	
I-132	6.0781E+00	5.8884E-10	2.6864E+15	4.3074E+20	
I-133	3.0861E+03	2.7243E-06	1.2335E+19	6.3518E+20	
I-134	4.5212E-05	1.6948E-15	7.6167E+09	3.6115E+20	
I-135	5.2385E+02	1.4917E-07	6.6540E+17	5.4916E+20	
Xe-133	1.5032E+04	8.0308E-05	3.6363E+20	4.9063E+19	
Xe-133m	8.8805E+02	2.0171E-06	9.1333E+18	3.1752E+18	
Xe-135	3.7019E+04	1.4496E-05	6.4665E+19	3.1105E+20	
Xe-135m	2.4300E+02	2.6694E-09	1.1908E+16	7.7755E+19	
Cs-134	4.3860E+01	3.3900E-05	1.5235E+20	4.5836E+18	
Cs-136	1.2704E+01	1.7334E-07	7.6756E+17	1.3942E+18	
Cs-137	3.4081E+01	3.9181E-04	1.7223E+21	3.5587E+18	

DW Transport Group Inventory:

Time (h) =	24.0000	Atmosphere	Sump
Noble gases (atoms)	4.3744E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5330E-04	4.5513E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)	4.1174E-07	
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	4.5094E-07	
Total I (Ci)		6.6573E+03	

DW to WW Transport Group Inventory:

Time (h) = 24.0000 Leakage Transport

Noble gases (atoms)	4.5744E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1043E+00

WW to DW Transport Group Inventory:

Time (h) = 24.0000 Leakage Transport

Noble gases (atoms)	4.5782E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1550E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) =	24.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 7.1937E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.1708E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) =	24.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 6.5120E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.2886E-05 4.7542E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) =	24.0000
	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.7658E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7834E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 24.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7658E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7834E-05

EAB Doses:

Time (h) = 26.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1114E-04	7.2874E-02	2.4170E-03
Accumulated dose (rem)	8.4168E-03	4.4018E+00	1.4837E-01

LPZ Doses:

Time (h) = 26.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2869E-06	1.8471E-03	6.2732E-05
Accumulated dose (rem)	9.2167E-04	3.4151E-01	1.1798E-02

CR Doses:

Time (h) = 26.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5086E-05	3.4380E-02	1.1030E-03
Accumulated dose (rem)	7.0478E-04	2.3414E+00	7.5158E-02

DW Compartment Nuclide Inventory:

Time (h) = 26.0000	Ci	kg	Atoms	Decay
Rb-86	4.2140E-01	5.1789E-09	3.6265E+16	4.5851E+16
I-131	3.0173E+03	2.4338E-05	1.1188E+20	3.2046E+20
I-132	3.3243E+00	3.2205E-10	1.4693E+15	4.3074E+20
I-133	2.8851E+03	2.5469E-06	1.1532E+19	6.3598E+20
I-134	9.2937E-06	3.4838E-16	1.5657E+09	3.6115E+20
I-135	4.2444E+02	1.2086E-07	5.3913E+17	5.4929E+20
Xe-133	1.4898E+04	7.9594E-05	3.6039E+20	5.3046E+19
Xe-133m	8.6696E+02	1.9692E-06	8.9164E+18	3.4088E+18
Xe-135	3.1831E+04	1.2464E-05	5.5602E+19	3.2019E+20
Xe-135m	1.9689E+02	2.1628E-09	9.6480E+15	7.7776E+19
Cs-134	4.3826E+01	3.3873E-05	1.5223E+20	4.5953E+18
Cs-136	1.2640E+01	1.7246E-07	7.6365E+17	1.3976E+18
Cs-137	3.4056E+01	3.9154E-04	1.7211E+21	3.5678E+18

DW Transport Group Inventory:

Time (h) = 26.0000	Atmosphere	Sump	
Noble gases (atoms)	4.2492E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5259E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.0480E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.4103E-07
Total I (Ci)			6.3302E+03

DW to WW Transport Group Inventory:

Time (h) = 26.0000 Leakage Transport

Noble gases (atoms)	4.8990E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1381E+00

WW to DW Transport Group Inventory:

Time (h) = 26.0000 Leakage Transport

Noble gases (atoms)	4.9028E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1889E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) = 26.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.4285E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1732E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 26.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.7242E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2903E-05	4.7601E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 26.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8233E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7894E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 26.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8233E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7894E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 28.0000			
Delta dose (rem)	9.4455E-05	6.5270E-02	2.1592E-03
Accumulated dose (rem)	8.5112E-03	4.4671E+00	1.5053E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 28.0000			
Delta dose (rem)	3.6433E-06	1.6544E-03	5.5978E-05
Accumulated dose (rem)	9.2531E-04	3.4316E-01	1.1854E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 28.0000			
Delta dose (rem)	9.8191E-06	2.1545E-02	6.9142E-04
Accumulated dose (rem)	7.1460E-04	2.3630E+00	7.5849E-02

DW Compartment Nuclide Inventory:

Time (h) = 28.0000	Ci	kg	Atoms	Decay
Rb-86	4.1980E-01	5.1593E-09	3.6128E+16	4.5963E+16
I-131	2.9936E+03	2.4147E-05	1.1101E+20	3.2126E+20
I-132	1.8181E+00	1.7614E-10	8.0358E+14	4.3074E+20
I-133	2.6972E+03	2.3810E-06	1.0781E+19	6.3672E+20
I-134	1.9104E-06	7.1613E-17	3.2184E+08	3.6115E+20
I-135	3.4390E+02	9.7924E-08	4.3682E+17	5.4939E+20
Xe-133	1.4764E+04	7.8875E-05	3.5714E+20	5.6994E+19
Xe-133m	8.4627E+02	1.9222E-06	8.7037E+18	3.6368E+18
Xe-135	2.7366E+04	1.0716E-05	4.7803E+19	3.2806E+20
Xe-135m	1.5952E+02	1.7524E-09	7.8171E+15	7.7793E+19
Cs-134	4.3792E+01	3.3847E-05	1.5211E+20	4.6070E+18
Cs-136	1.2575E+01	1.7158E-07	7.5975E+17	1.4010E+18
Cs-137	3.4032E+01	3.9126E-04	1.7199E+21	3.5769E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 28.0000		
Noble gases (atoms)	4.1366E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5191E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.9818E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.3172E-07
Total I (Ci)			6.0365E+03

DW to WW Transport Group Inventory:
Time (h) = 28.0000 Leakage Transport

Noble gases (atoms)	5.2144E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.1719E+00

WW to DW Transport Group Inventory:
Time (h) = 28.0000 Leakage Transport

Noble gases (atoms)	5.2182E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.2227E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 28.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.6567E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1757E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 28.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.9304E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2919E-05	4.7661E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 28.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8792E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7954E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 28.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8792E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.7954E-05

EAB Doses:

Time (h) = 30.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.0446E-05	5.8491E-02	1.9304E-03
Accumulated dose (rem)	8.5917E-03	4.5255E+00	1.5246E-01

LPZ Doses:

Time (h) = 30.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1029E-06	1.4826E-03	4.9993E-05
Accumulated dose (rem)	9.2842E-04	3.4465E-01	1.1904E-02

CR Doses:

Time (h) = 30.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8328E-06	1.4851E-02	4.7657E-04

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Accumulated dose (rem) 7.2143E-04 2.3778E+00 7.6326E-02

DW Compartment Nuclide Inventory:

Time (h) = 30.0000	Ci	kg	Atoms	Decay
Rb-86	4.1821E-01	5.1397E-09	3.5991E+16	4.6074E+16
I-131	2.9701E+03	2.3957E-05	1.1013E+20	3.2206E+20
I-132	9.9438E-01	9.6335E-11	4.3950E+14	4.3074E+20
I-133	2.5215E+03	2.2259E-06	1.0079E+19	6.3741E+20
I-134	3.9270E-07	1.4721E-17	6.6156E+07	3.6115E+20
I-135	2.7864E+02	7.9342E-08	3.5393E+17	5.4947E+20
Xe-133	1.4629E+04	7.8154E-05	3.5388E+20	6.0906E+19
Xe-133m	8.2600E+02	1.8762E-06	8.4952E+18	3.8593E+18
Xe-135	2.3525E+04	9.2121E-06	4.1094E+19	3.3482E+20
Xe-135m	1.2925E+02	1.4198E-09	6.3337E+15	7.7807E+19
Cs-134	4.3758E+01	3.3820E-05	1.5199E+20	4.6186E+18
Cs-136	1.2511E+01	1.7070E-07	7.5588E+17	1.4043E+18
Cs-137	3.4008E+01	3.9098E-04	1.7186E+21	3.5859E+18

DW Transport Group Inventory:

Time (h) = 30.0000	Atmosphere	Sump
Noble gases (atoms)	4.0347E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.5124E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.9188E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.2296E-07
Total I (Ci)		5.7712E+03

DW to WW Transport Group Inventory:

Time (h) = 30.0000 Leakage Transport

Noble gases (atoms)	5.5217E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.2057E+00

WW to DW Transport Group Inventory:

Time (h) = 30.0000 Leakage Transport

Noble gases (atoms)	5.5255E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.2565E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 30.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.8790E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1781E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 30.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.1312E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2935E-05	4.7720E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 30.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9336E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8014E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 30.0000		
Noble gases (atoms)	0.0000E+00	1.9336E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8014E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 32.0000			
Delta dose (rem)	6.8674E-05	5.2453E-02	1.7274E-03
Accumulated dose (rem)	8.6603E-03	4.5780E+00	1.5419E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 32.0000			
Delta dose (rem)	2.6489E-06	1.3295E-03	4.4692E-05
Accumulated dose (rem)	9.3107E-04	3.4597E-01	1.1949E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 32.0000			
Delta dose (rem)	5.0508E-06	1.1167E-02	3.5822E-04
Accumulated dose (rem)	7.2648E-04	2.3890E+00	7.6684E-02

DW Compartment Nuclide Inventory:

Time (h) = 32.0000	Ci	kg	Atoms	Decay
Rb-86	4.1662E-01	5.1202E-09	3.5854E+16	4.6185E+16
I-131	2.9468E+03	2.3769E-05	1.0927E+20	3.2285E+20
I-132	5.4385E-01	5.2688E-11	2.4037E+14	4.3074E+20
I-133	2.3573E+03	2.0809E-06	9.4222E+18	6.3806E+20
I-134	8.0722E-08	3.0259E-18	1.3599E+07	3.6115E+20
I-135	2.2576E+02	6.4285E-08	2.8677E+17	5.4954E+20
Xe-133	1.4494E+04	7.7430E-05	3.5060E+20	6.4782E+19
Xe-133m	8.0613E+02	1.8311E-06	8.2909E+18	4.0766E+18
Xe-135	2.0221E+04	7.9181E-06	3.5322E+19	3.4063E+20
Xe-135m	1.0472E+02	1.1504E-09	5.1318E+15	7.7818E+19
Cs-134	4.3724E+01	3.3794E-05	1.5187E+20	4.6303E+18
Cs-136	1.2447E+01	1.6983E-07	7.5202E+17	1.4076E+18
Cs-137	3.3984E+01	3.9070E-04	1.7174E+21	3.5950E+18

DW Transport Group Inventory:

Time (h) = 32.0000	Atmosphere	Sump	
Noble gases (atoms)	3.9422E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.5059E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.8586E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.1470E-07
Total I (Ci)			5.5303E+03

DW to WW Transport Group Inventory:

Time (h) = 32.0000 Leakage Transport

Noble gases (atoms)	5.8215E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.2394E+00

WW to DW Transport Group Inventory:

Time (h) = 32.0000 Leakage Transport

Noble gases (atoms)	5.8253E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.2902E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 32.0000		
Noble gases (atoms)	0.0000E+00	8.0959E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1806E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 32.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.3272E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2951E-05	4.7780E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 32.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9868E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8074E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 32.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9868E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8074E-05

EAB Doses:

Time (h) = 34.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8774E-05	4.7080E-02	1.5474E-03
Accumulated dose (rem)	8.7191E-03	4.6251E+00	1.5574E-01

LPZ Doses:

Time (h) = 34.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2670E-06	1.1933E-03	3.9999E-05
Accumulated dose (rem)	9.3333E-04	3.4717E-01	1.1989E-02

CR Doses:

Time (h) = 34.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9227E-06	8.9826E-03	2.8796E-04
Accumulated dose (rem)	7.3040E-04	2.3980E+00	7.6972E-02

DW Compartment Nuclide Inventory:

Time (h) = 34.0000	Ci	kg	Atoms	Decay
Rb-86	4.1504E-01	5.1008E-09	3.5718E+16	4.6296E+16
I-131	2.9236E+03	2.3582E-05	1.0841E+20	3.2363E+20
I-132	2.9745E-01	2.8816E-11	1.3147E+14	4.3074E+20
I-133	2.2037E+03	1.9454E-06	8.8085E+18	6.3867E+20
I-134	1.6593E-08	6.2200E-19	2.7954E+06	3.6115E+20
I-135	1.8292E+02	5.2086E-08	2.3235E+17	5.4959E+20
Xe-133	1.4358E+04	7.6705E-05	3.4731E+20	6.8622E+19
Xe-133m	7.8667E+02	1.7868E-06	8.0907E+18	4.2886E+18
Xe-135	1.7379E+04	6.8052E-06	3.0357E+19	3.4563E+20
Xe-135m	8.4852E+01	9.3210E-10	4.1580E+15	7.7828E+19
Cs-134	4.3690E+01	3.3768E-05	1.5176E+20	4.6419E+18
Cs-136	1.2384E+01	1.6897E-07	7.4819E+17	1.4109E+18
Cs-137	3.3960E+01	3.9043E-04	1.7162E+21	3.6040E+18

DW Transport Group Inventory:

Time (h) = 34.0000	Atmosphere	Sump	
Noble gases (atoms)	3.8576E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.4995E-04	4.5513E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.8010E-07
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		4.0688E-07
Total I (Ci)			5.3105E+03

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DW to WW Transport Group Inventory:

Time (h) = 34.0000 Leakage Transport

Noble gases (atoms)	6.1145E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.2731E+00

WW to DW Transport Group Inventory:

Time (h) = 34.0000 Leakage Transport

Noble gases (atoms)	6.1183E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.3238E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 34.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.3079E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1830E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 34.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	7.5188E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2967E-05	4.7839E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 34.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0387E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8133E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 34.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0387E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8133E-05

EAB Doses:

Time (h) = 36.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0439E-05	4.2301E-02	1.3878E-03
Accumulated dose (rem)	8.7695E-03	4.6674E+00	1.5713E-01

LPZ Doses:

Time (h) = 36.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9455E-06	1.0722E-03	3.5845E-05
Accumulated dose (rem)	9.3528E-04	3.4824E-01	1.2025E-02

CR Doses:

Time (h) = 36.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1617E-06	7.5648E-03	2.4234E-04
Accumulated dose (rem)	7.3357E-04	2.4056E+00	7.7214E-02

DW Compartment Nuclide Inventory:

Time (h) = 36.0000	Ci	kg	Atoms	Decay
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Rb-86	4.1347E-01	5.0815E-09	3.5583E+16	4.6407E+16
I-131	2.9006E+03	2.3397E-05	1.0756E+20	3.2440E+20
I-132	1.6268E-01	1.5760E-11	7.1903E+13	4.3074E+20
I-133	2.0602E+03	1.8187E-06	8.2347E+18	6.3924E+20
I-134	3.4108E-09	1.2786E-19	5.7461E+05	3.6115E+20
I-135	1.4821E+02	4.2202E-08	1.8826E+17	5.4964E+20
Xe-133	1.4222E+04	7.5978E-05	3.4402E+20	7.2426E+19
Xe-133m	7.6760E+02	1.7435E-06	7.8946E+18	4.4954E+18
Xe-135	1.4935E+04	5.8482E-06	2.6088E+19	3.4992E+20
Xe-135m	6.8750E+01	7.5522E-10	3.3689E+15	7.7835E+19
Cs-134	4.3655E+01	3.3741E-05	1.5164E+20	4.6535E+18
Cs-136	1.2320E+01	1.6810E-07	7.4437E+17	1.4142E+18
Cs-137	3.3936E+01	3.9015E-04	1.7150E+21	3.6131E+18

DW Transport Group Inventory:

Time (h) =	36.0000	Atmosphere	Sump
Noble gases (atoms)	3.7801E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.4932E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.7458E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.9947E-07
Total I (Ci)			5.1092E+03

DW to WW Transport Group Inventory:

Time (h) = 36.0000 Leakage Transport

Noble gases (atoms)	6.4014E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.3067E+00

WW to DW Transport Group Inventory:

Time (h) = 36.0000 Leakage Transport

Noble gases (atoms)	6.4052E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.3575E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	36.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.5154E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1854E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	36.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	7.7063E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2983E-05	4.7898E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	36.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.0895E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8193E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	36.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.0895E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 4.8193E-05

EAB Doses:

Time (h) = 38.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3413E-05	3.8054E-02	1.2464E-03
Accumulated dose (rem)	8.8130E-03	4.7054E+00	1.5837E-01

LPZ Doses:

Time (h) = 38.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6745E-06	9.6454E-04	3.2168E-05
Accumulated dose (rem)	9.3695E-04	3.4921E-01	1.2057E-02

CR Doses:

Time (h) = 38.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6161E-06	6.5566E-03	2.0991E-04
Accumulated dose (rem)	7.3618E-04	2.4121E+00	7.7424E-02

DW Compartment Nuclide Inventory:

Time (h) = 38.0000	Ci	kg	Atoms	Decay
Rb-86	4.1190E-01	5.0622E-09	3.5448E+16	4.6516E+16
I-131	2.8778E+03	2.3213E-05	1.0671E+20	3.2517E+20
I-132	8.8975E-02	8.6198E-12	3.9326E+13	4.3074E+20
I-133	1.9260E+03	1.7002E-06	7.6984E+18	6.3977E+20
I-134	7.0112E-10	2.6282E-20	1.1811E+05	3.6115E+20
I-135	1.2008E+02	3.4194E-08	1.5253E+17	5.4967E+20
Xe-133	1.4086E+04	7.5251E-05	3.4073E+20	7.6194E+19
Xe-133m	7.4894E+02	1.7011E-06	7.7026E+18	4.6973E+18
Xe-135	1.2833E+04	5.0252E-06	2.2417E+19	3.5361E+20
Xe-135m	5.5704E+01	6.1191E-10	2.7296E+15	7.7841E+19
Cs-134	4.3621E+01	3.3715E-05	1.5152E+20	4.6652E+18
Cs-136	1.2258E+01	1.6725E-07	7.4057E+17	1.4175E+18
Cs-137	3.3912E+01	3.8987E-04	1.7138E+21	3.6221E+18

DW Transport Group Inventory:

Time (h) = 38.0000	Atmosphere	Sump
Noble gases (atoms)	3.7085E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4871E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.6928E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.9244E-07
Total I (Ci)		4.9240E+03

DW to WW Transport Group Inventory:

Time (h) = 38.0000 Leakage Transport

Noble gases (atoms)	6.6826E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.3403E+00

WW to DW Transport Group Inventory:

Time (h) = 38.0000 Leakage Transport

Noble gases (atoms)	6.6864E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.3910E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 38.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 8.7188E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.1879E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 38.0000		
Noble gases (atoms)	0.0000E+00	7.8901E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.2999E-05	4.7957E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 38.0000		
Noble gases (atoms)	0.0000E+00	2.1393E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8252E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 38.0000		
Noble gases (atoms)	0.0000E+00	2.1393E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8252E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 40.0000			
Delta dose (rem)	3.7483E-05	3.4280E-02	1.1211E-03
Accumulated dose (rem)	8.8504E-03	4.7397E+00	1.5949E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 40.0000			
Delta dose (rem)	1.4458E-06	8.6888E-04	2.8913E-05
Accumulated dose (rem)	9.3840E-04	3.5007E-01	1.2086E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 40.0000			
Delta dose (rem)	2.2042E-06	5.7818E-03	1.8499E-04
Accumulated dose (rem)	7.3839E-04	2.4179E+00	7.7609E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 40.0000				
Rb-86	4.1034E-01	5.0430E-09	3.5313E+16	4.6626E+16
I-131	2.8552E+03	2.3031E-05	1.0587E+20	3.2594E+20
I-132	4.8663E-02	4.7144E-12	2.1508E+13	4.3074E+20
I-133	1.8005E+03	1.5895E-06	7.1969E+18	6.4026E+20
I-134	1.4412E-10	5.4025E-21	2.4279E+04	3.6115E+20
I-135	9.7295E+01	2.7705E-08	1.2359E+17	5.4970E+20
Xe-133	1.3949E+04	7.4524E-05	3.3744E+20	7.9926E+19
Xe-133m	7.3066E+02	1.6596E-06	7.5147E+18	4.8943E+18
Xe-135	1.1026E+04	4.3177E-06	1.9261E+19	3.5678E+20
Xe-135m	4.5133E+01	4.9579E-10	2.2116E+15	7.7846E+19
Cs-134	4.3587E+01	3.3689E-05	1.5140E+20	4.6768E+18
Cs-136	1.2195E+01	1.6639E-07	7.3680E+17	1.4208E+18
Cs-137	3.3888E+01	3.8960E-04	1.7126E+21	3.6311E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 40.0000		
Noble gases (atoms)	3.6421E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4810E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.6419E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.8574E-07
Total I (Ci)		4.7531E+03

DW to WW Transport Group Inventory:

Time (h) = 40.0000 Leakage Transport

Noble gases (atoms) 6.9585E+23

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Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 2.3738E+00

WW to DW Transport Group Inventory:
Time (h) = 40.0000 Leakage Transport

Noble gases (atoms) 6.9623E+23
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 2.4246E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 40.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9184E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1903E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 40.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.0705E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3015E-05	4.8016E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 40.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1882E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8312E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 40.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1882E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8312E-05

EAB Doses:

Time (h) = 42.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2470E-05	3.0927E-02	1.0101E-03
Accumulated dose (rem)	8.8829E-03	4.7706E+00	1.6050E-01

LPZ Doses:

Time (h) = 42.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2524E-06	7.8391E-04	2.6033E-05
Accumulated dose (rem)	9.3965E-04	3.5086E-01	1.2112E-02

CR Doses:

Time (h) = 42.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8806E-06	5.1516E-03	1.6474E-04
Accumulated dose (rem)	7.4027E-04	2.4230E+00	7.7774E-02

DW Compartment Nuclide Inventory:

Time (h) = 42.0000	Ci	kg	Atoms	Decay
Rb-86	4.0878E-01	5.0239E-09	3.5180E+16	4.6735E+16
I-131	2.8328E+03	2.2850E-05	1.0504E+20	3.2669E+20
I-132	2.6615E-02	2.5784E-12	1.1763E+13	4.3074E+20
I-133	1.6833E+03	1.4859E-06	6.7282E+18	6.4073E+20
I-135	7.8832E+01	2.2447E-08	1.0013E+17	5.4973E+20

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Xe-133	1.3813E+04	7.3797E-05	3.3415E+20	8.3621E+19
Xe-133m	7.1278E+02	1.6190E-06	7.3307E+18	5.0864E+18
Xe-135	9.4730E+03	3.7095E-06	1.6547E+19	3.5950E+20
Xe-135m	3.6568E+01	4.0170E-10	1.7919E+15	7.7850E+19
Cs-134	4.3553E+01	3.3662E-05	1.5128E+20	4.6884E+18
Cs-136	1.2133E+01	1.6554E-07	7.3304E+17	1.4240E+18
Cs-137	3.3864E+01	3.8932E-04	1.7113E+21	3.6401E+18

DW Transport Group Inventory:

Time (h) = 42.0000	Atmosphere	Sump	
Noble gases (atoms)	3.5803E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.4751E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.5929E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.7936E-07
Total I (Ci)			4.5949E+03

DW to WW Transport Group Inventory:

Time (h) = 42.0000 Leakage Transport

Noble gases (atoms)	7.2295E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.4073E+00

WW to DW Transport Group Inventory:

Time (h) = 42.0000 Leakage Transport

Noble gases (atoms)	7.2334E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.4580E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 42.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.1145E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1927E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 42.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.2477E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3031E-05	4.8075E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 42.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2363E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8371E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 42.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2363E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8371E-05

EAB Doses:

Time (h) = 44.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8227E-05	2.7950E-02	9.1177E-04

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Accumulated dose (rem) 8.9111E-03 4.7986E+00 1.6141E-01

LPZ Doses:

Time (h) = 44.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0887E-06	7.0845E-04	2.3484E-05
Accumulated dose (rem)	9.4074E-04	3.5157E-01	1.2135E-02

CR Doses:

Time (h) = 44.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6190E-06	4.6196E-03	1.4766E-04
Accumulated dose (rem)	7.4189E-04	2.4277E+00	7.7921E-02

DW Compartment Nuclide Inventory:

Time (h) = 44.0000	Ci	kg	Atoms	Decay
Rb-86	4.0723E-01	5.0048E-09	3.5046E+16	4.6844E+16
I-131	2.8105E+03	2.2670E-05	1.0422E+20	3.2745E+20
I-132	1.4556E-02	1.4102E-12	6.4337E+12	4.3074E+20
I-133	1.5736E+03	1.3891E-06	6.2899E+18	6.4116E+20
I-135	6.3873E+01	1.8188E-08	8.1132E+16	5.4974E+20
Xe-133	1.3678E+04	7.3071E-05	3.3086E+20	8.7281E+19
Xe-133m	6.9528E+02	1.5793E-06	7.1508E+18	5.2738E+18
Xe-135	8.1379E+03	3.1867E-06	1.4215E+19	3.6184E+20
Xe-135m	2.9629E+01	3.2548E-10	1.4519E+15	7.7853E+19
Cs-134	4.3519E+01	3.3636E-05	1.5116E+20	4.7000E+18
Cs-136	1.2071E+01	1.6470E-07	7.2930E+17	1.4272E+18
Cs-137	3.3840E+01	3.8904E-04	1.7101E+21	3.6492E+18

DW Transport Group Inventory:

Time (h) = 44.0000	Atmosphere	Sump
Noble gases (atoms)	3.5223E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4693E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.5457E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.7327E-07
Total I (Ci)		4.4481E+03

DW to WW Transport Group Inventory:

Time (h) = 44.0000 Leakage Transport

Noble gases (atoms)	7.4961E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.4407E+00

WW to DW Transport Group Inventory:

Time (h) = 44.0000 Leakage Transport

Noble gases (atoms)	7.4999E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.4915E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 44.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 9.3073E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.1951E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 44.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 8.4219E+17
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.3047E-05 4.8134E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 44.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2835E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8430E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 44.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2835E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8430E-05

EAB Doses:

Time (h) = 46.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4628E-05	2.5307E-02	8.2460E-04
Accumulated dose (rem)	8.9358E-03	4.8239E+00	1.6224E-01

LPZ Doses:

Time (h) = 46.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4995E-07	6.4144E-04	2.1227E-05
Accumulated dose (rem)	9.4169E-04	3.5221E-01	1.2156E-02

CR Doses:

Time (h) = 46.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4034E-06	4.1604E-03	1.3293E-04
Accumulated dose (rem)	7.4329E-04	2.4318E+00	7.8054E-02

DW Compartment Nuclide Inventory:

Time (h) = 46.0000	Ci	kg	Atoms	Decay
Rb-86	4.0568E-01	4.9858E-09	3.4913E+16	4.6952E+16
I-131	2.7885E+03	2.2492E-05	1.0340E+20	3.2819E+20
I-132	7.9613E-03	7.7128E-13	3.5188E+12	4.3074E+20
I-133	1.4711E+03	1.2987E-06	5.8802E+18	6.4157E+20
I-135	5.1752E+01	1.4736E-08	6.5736E+16	5.4976E+20
Xe-133	1.3542E+04	7.2347E-05	3.2758E+20	9.0904E+19
Xe-133m	6.7816E+02	1.5404E-06	6.9747E+18	5.4566E+18
Xe-135	6.9905E+03	2.7374E-06	1.2211E+19	3.6385E+20
Xe-135m	2.4006E+01	2.6371E-10	1.1764E+15	7.7855E+19
Cs-134	4.3485E+01	3.3610E-05	1.5105E+20	4.7116E+18
Cs-136	1.2009E+01	1.6386E-07	7.2558E+17	1.4304E+18
Cs-137	3.3816E+01	3.8877E-04	1.7089E+21	3.6582E+18

DW Transport Group Inventory:

Time (h) = 46.0000	Atmosphere	Sump
Noble gases (atoms)	3.4677E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4635E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.5001E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.6745E-07
Total I (Ci)		4.3113E+03

DW to WW Transport Group Inventory:

Time (h) = 46.0000 Leakage Transport

Noble gases (atoms)	7.7583E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.4741E+00

WW to DW Transport Group Inventory:

Time (h) = 46.0000 Leakage Transport

Noble gases (atoms)	7.7621E+23
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Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.5249E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 46.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.4970E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.1975E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 46.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.5933E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3063E-05	4.8193E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 46.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3299E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8490E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 46.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3299E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8490E-05

EAB Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1572E-05	2.2959E-02	7.4735E-04
Accumulated dose (rem)	8.9573E-03	4.8469E+00	1.6299E-01

LPZ Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.3207E-07	5.8195E-04	1.9228E-05
Accumulated dose (rem)	9.4252E-04	3.5279E-01	1.2176E-02

CR Doses:

Time (h) = 48.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2234E-06	3.7588E-03	1.2005E-04
Accumulated dose (rem)	7.4451E-04	2.4356E+00	7.8174E-02

DW Compartment Nuclide Inventory:

Time (h) = 48.0000	Ci	kg	Atoms	Decay
Rb-86	4.0415E-01	4.9669E-09	3.4781E+16	4.7060E+16
I-131	2.7665E+03	2.2315E-05	1.0258E+20	3.2893E+20
I-132	4.3543E-03	4.2184E-13	1.9245E+12	4.3074E+20
I-133	1.3753E+03	1.2141E-06	5.4972E+18	6.4195E+20
I-135	4.1931E+01	1.1940E-08	5.3262E+16	5.4977E+20
Xe-133	1.3407E+04	7.1624E-05	3.2431E+20	9.4491E+19
Xe-133m	6.6141E+02	1.5023E-06	6.8025E+18	5.6350E+18
Xe-135	6.0044E+03	2.3512E-06	1.0489E+19	3.6558E+20
Xe-135m	1.9451E+01	2.1367E-10	9.5314E+14	7.7858E+19
Cs-134	4.3451E+01	3.3584E-05	1.5093E+20	4.7232E+18
Cs-136	1.1948E+01	1.6302E-07	7.2188E+17	1.4336E+18
Cs-137	3.3792E+01	3.8849E-04	1.7077E+21	3.6672E+18

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DW Transport Group Inventory:

Time (h) =	48.0000	Atmosphere	Sump	
Noble gases (atoms)	3.4160E+20	0.0000E+00		
Elemental I (atoms)	0.0000E+00	0.0000E+00		
Organic I (atoms)	0.0000E+00	0.0000E+00		
Aerosols (kg)	4.4578E-04	4.5513E+00		
Dose Effective (Ci/cc) I-131 (Thyroid)				3.4561E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				3.6187E-07
Total I (Ci)				4.1838E+03

DW to WW Transport Group Inventory:

Time (h) = 48.0000 Leakage Transport

Noble gases (atoms)	8.0165E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.5075E+00

WW to DW Transport Group Inventory:

Time (h) = 48.0000 Leakage Transport

Noble gases (atoms)	8.0203E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.5582E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	48.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	9.6838E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2000E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	48.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	8.7621E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3079E-05	4.8252E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	48.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3757E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8549E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	48.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00	2.3757E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8549E-05

EAB Doses:

Time (h) =	50.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8972E-05	2.0875E-02	6.7888E-04	
Accumulated dose (rem)	8.9763E-03	4.8677E+00	1.6367E-01	

LPZ Doses:

Time (h) =	50.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3178E-07	5.2911E-04	1.7458E-05	
Accumulated dose (rem)	9.4325E-04	3.5332E-01	1.2193E-02	

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CR Doses:

Time (h) = 50.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0719E-06	3.4052E-03	1.0873E-04
Accumulated dose (rem)	7.4558E-04	2.4390E+00	7.8283E-02

DW Compartment Nuclide Inventory:

Time (h) = 50.0000	Ci	kg	Atoms	Decay
Rb-86	4.0261E-01	4.9481E-09	3.4649E+16	4.7167E+16
I-131	2.7448E+03	2.2140E-05	1.0178E+20	3.2967E+20
I-132	2.3815E-03	2.3071E-13	1.0526E+12	4.3074E+20
I-133	1.2857E+03	1.1350E-06	5.1392E+18	6.4230E+20
I-135	3.3974E+01	9.6741E-09	4.3155E+16	5.4978E+20
Xe-133	1.3272E+04	7.0904E-05	3.2105E+20	9.8043E+19
Xe-133m	6.4504E+02	1.4651E-06	6.6341E+18	5.8089E+18
Xe-135	5.1571E+03	2.0195E-06	9.0085E+18	3.6706E+20
Xe-135m	1.5760E+01	1.7312E-10	7.7227E+14	7.7859E+19
Cs-134	4.3417E+01	3.3557E-05	1.5081E+20	4.7347E+18
Cs-136	1.1887E+01	1.6219E-07	7.1820E+17	1.4368E+18
Cs-137	3.3768E+01	3.8822E-04	1.7065E+21	3.6762E+18

DW Transport Group Inventory:

Time (h) = 50.0000	Atmosphere	Sump
Noble gases (atoms)	3.3669E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4523E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.4136E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.5653E-07
Total I (Ci)		4.0645E+03

DW to WW Transport Group Inventory:

Time (h) = 50.0000 Leakage Transport

Noble gases (atoms)	8.2709E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.5408E+00

WW to DW Transport Group Inventory:

Time (h) = 50.0000 Leakage Transport

Noble gases (atoms)	8.2747E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.5915E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 50.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8679E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2024E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 50.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	8.9284E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3095E-05	4.8311E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 50.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4208E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8608E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 50.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4208E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8608E-05

EAB Doses:

Time (h) = 52.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6756E-05	1.9023E-02	6.1816E-04
Accumulated dose (rem)	8.9931E-03	4.8868E+00	1.6428E-01

LPZ Doses:

Time (h) = 52.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4631E-07	4.8219E-04	1.5890E-05
Accumulated dose (rem)	9.4390E-04	3.5380E-01	1.2209E-02

CR Doses:

Time (h) = 52.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4370E-07	3.0924E-03	9.8715E-05
Accumulated dose (rem)	7.4653E-04	2.4421E+00	7.8382E-02

DW Compartment Nuclide Inventory:

Time (h) = 52.0000	Ci	kg	Atoms	Decay
Rb-86	4.0109E-01	4.9293E-09	3.4518E+16	4.7274E+16
I-131	2.7232E+03	2.1966E-05	1.0098E+20	3.3039E+20
I-132	1.3025E-03	1.2618E-13	5.7568E+11	4.3074E+20
I-133	1.2020E+03	1.0611E-06	4.8044E+18	6.4263E+20
I-135	2.7527E+01	7.8383E-09	3.4965E+16	5.4979E+20
Xe-133	1.3138E+04	7.0186E-05	3.1780E+20	1.0156E+20
Xe-133m	6.2903E+02	1.4288E-06	6.4694E+18	5.9785E+18
Xe-135	4.4291E+03	1.7344E-06	7.7368E+18	3.6834E+20
Xe-135m	1.2769E+01	1.4027E-10	6.2572E+14	7.7861E+19
Cs-134	4.3384E+01	3.3531E-05	1.5069E+20	4.7463E+18
Cs-136	1.1827E+01	1.6137E-07	7.1453E+17	1.4400E+18
Cs-137	3.3744E+01	3.8794E-04	1.7053E+21	3.6852E+18

DW Transport Group Inventory:

Time (h) = 52.0000	Atmosphere	Sump
Noble gases (atoms)	3.3200E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4467E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.3724E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.5140E-07
Total I (Ci)		3.9527E+03

DW to WW Transport Group Inventory:

Time (h) = 52.0000 Leakage Transport

Noble gases (atoms)	8.5217E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.5741E+00

WW to DW Transport Group Inventory:

Time (h) = 52.0000 Leakage Transport

Noble gases (atoms)	8.5255E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.6248E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 52.0000	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	1.0049E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2048E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 52.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.0924E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3111E-05	4.8369E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 52.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4652E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8667E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 52.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4652E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8667E-05

EAB Doses:

Time (h) = 54.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4864E-05	1.7379E-02	5.6431E-04
Accumulated dose (rem)	9.0079E-03	4.9041E+00	1.6485E-01

LPZ Doses:

Time (h) = 54.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7333E-07	4.4050E-04	1.4500E-05
Accumulated dose (rem)	9.4447E-04	3.5424E-01	1.2224E-02

CR Doses:

Time (h) = 54.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.3477E-07	2.8153E-03	8.9847E-05
Accumulated dose (rem)	7.4736E-04	2.4449E+00	7.8472E-02

DW Compartment Nuclide Inventory:

Time (h) = 54.0000	Ci	kg	Atoms	Decay
Rb-86	3.9957E-01	4.9106E-09	3.4387E+16	4.7381E+16
I-131	2.7018E+03	2.1793E-05	1.0019E+20	3.3112E+20
I-132	7.1236E-04	6.9013E-14	3.1485E+11	4.3074E+20
I-133	1.1237E+03	9.9195E-07	4.4915E+18	6.4294E+20
I-135	2.2303E+01	6.3509E-09	2.8330E+16	5.4980E+20
Xe-133	1.3004E+04	6.9471E-05	3.1456E+20	1.0504E+20
Xe-133m	6.1338E+02	1.3932E-06	6.3085E+18	6.1439E+18
Xe-135	3.8037E+03	1.4895E-06	6.6442E+18	3.6943E+20
Xe-135m	1.0346E+01	1.1365E-10	5.0698E+14	7.7862E+19
Cs-134	4.3350E+01	3.3505E-05	1.5058E+20	4.7578E+18
Cs-136	1.1766E+01	1.6054E-07	7.1089E+17	1.4431E+18
Cs-137	3.3720E+01	3.8767E-04	1.7041E+21	3.6941E+18

DW Transport Group Inventory:

Time (h) = 54.0000	Atmosphere	Sump
Noble gases (atoms)	3.2751E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4413E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.3325E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.4647E-07

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Total I (Ci) 3.8478E+03

DW to WW Transport Group Inventory:

Time (h) = 54.0000 Leakage Transport

Noble gases (atoms)	8.7690E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.6073E+00

WW to DW Transport Group Inventory:

Time (h) = 54.0000 Leakage Transport

Noble gases (atoms)	8.7728E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.6580E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 54.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0228E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2072E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 54.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.2540E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3127E-05	4.8428E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 54.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5090E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8726E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 54.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5090E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8726E-05

EAB Doses:

Time (h) = 56.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3246E-05	1.5918E-02	5.1652E-04
Accumulated dose (rem)	9.0212E-03	4.9201E+00	1.6536E-01

LPZ Doses:

Time (h) = 56.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1091E-07	4.0347E-04	1.3267E-05
Accumulated dose (rem)	9.4498E-04	3.5464E-01	1.2237E-02

CR Doses:

Time (h) = 56.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4199E-07	2.5693E-03	8.1982E-05
Accumulated dose (rem)	7.4811E-04	2.4475E+00	7.8554E-02

DW Compartment Nuclide Inventory:

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Time (h) = 56.0000	Ci	kg	Atoms	Decay
Rb-86	3.9805E-01	4.8920E-09	3.4256E+16	4.7487E+16
I-131	2.6806E+03	2.1622E-05	9.9398E+19	3.3183E+20
I-132	3.8961E-04	3.7745E-14	1.7220E+11	4.3074E+20
I-133	1.0505E+03	9.2734E-07	4.1989E+18	6.4323E+20
I-135	1.8071E+01	5.1457E-09	2.2954E+16	5.4980E+20
Xe-133	1.2870E+04	6.8759E-05	3.1134E+20	1.0848E+20
Xe-133m	5.9809E+02	1.3585E-06	6.1512E+18	6.3051E+18
Xe-135	3.2663E+03	1.2790E-06	5.7056E+18	3.7037E+20
Xe-135m	8.3827E+00	9.2084E-11	4.1077E+14	7.7863E+19
Cs-134	4.3316E+01	3.3479E-05	1.5046E+20	4.7694E+18
Cs-136	1.1706E+01	1.5972E-07	7.0726E+17	1.4462E+18
Cs-137	3.3696E+01	3.8739E-04	1.7029E+21	3.7031E+18

DW Transport Group Inventory:

Time (h) = 56.0000	Atmosphere	Sump
Noble gases (atoms)	3.2319E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4359E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2939E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.4172E-07
Total I (Ci)		3.7492E+03

DW to WW Transport Group Inventory:

Time (h) = 56.0000 Leakage Transport

Noble gases (atoms)	9.0130E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.6405E+00

WW to DW Transport Group Inventory:

Time (h) = 56.0000 Leakage Transport

Noble gases (atoms)	9.0168E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.6912E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 56.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	1.0405E+19
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	3.2096E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 56.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	9.4135E+17
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		1.3143E-05	4.8486E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 56.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	2.5523E+18
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00
Aerosols (kg)		0.0000E+00	4.8784E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

Time (h) = 56.0000	Pathway	Filtered	Transported
Noble gases (atoms)		0.0000E+00	2.5523E+18
Elemental I (atoms)		0.0000E+00	0.0000E+00
Organic I (atoms)		0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 4.8784E-05

EAB Doses:

Time (h) = 58.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1859E-05	1.4619E-02	4.7410E-04
Accumulated dose (rem)	9.0330E-03	4.9347E+00	1.6584E-01

LPZ Doses:

Time (h) = 58.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5742E-07	3.7055E-04	1.2174E-05
Accumulated dose (rem)	9.4544E-04	3.5502E-01	1.2249E-02

CR Doses:

Time (h) = 58.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6277E-07	2.3508E-03	7.5000E-05
Accumulated dose (rem)	7.4877E-04	2.4498E+00	7.8629E-02

DW Compartment Nuclide Inventory:

Time (h) = 58.0000	Ci	kg	Atoms	Decay
Rb-86	3.9654E-01	4.8735E-09	3.4126E+16	4.7593E+16
I-131	2.6595E+03	2.1452E-05	9.8617E+19	3.3254E+20
I-132	2.1309E-04	2.0644E-14	9.4181E+10	4.3074E+20
I-133	9.8208E+02	8.6694E-07	3.9254E+18	6.4350E+20
I-135	1.4642E+01	4.1692E-09	1.8598E+16	5.4981E+20
Xe-133	1.2738E+04	6.8051E-05	3.0813E+20	1.1189E+20
Xe-133m	5.8314E+02	1.3246E-06	5.9975E+18	6.4624E+18
Xe-135	2.8048E+03	1.0983E-06	4.8994E+18	3.7118E+20
Xe-135m	6.7919E+00	7.4610E-11	3.3282E+14	7.7863E+19
Cs-134	4.3282E+01	3.3453E-05	1.5034E+20	4.7809E+18
Cs-136	1.1647E+01	1.5891E-07	7.0366E+17	1.4493E+18
Cs-137	3.3672E+01	3.8712E-04	1.7017E+21	3.7121E+18

DW Transport Group Inventory:

Time (h) = 58.0000	Atmosphere	Sump
Noble gases (atoms)	3.1902E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4306E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2563E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.3715E-07
Total I (Ci)		3.6563E+03

DW to WW Transport Group Inventory:

Time (h) = 58.0000 Leakage Transport

Noble gases (atoms)	9.2538E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.6736E+00

WW to DW Transport Group Inventory:

Time (h) = 58.0000 Leakage Transport

Noble gases (atoms)	9.2576E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.7244E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 58.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.0579E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.2120E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Pathway

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Time (h) = 58.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.5709E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3158E-05	4.8545E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 58.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5949E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8843E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 58.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5949E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8843E-05

EAB Doses:

Time (h) = 60.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0668E-05	1.3465E-02	4.3643E-04
Accumulated dose (rem)	9.0437E-03	4.9481E+00	1.6628E-01

LPZ Doses:

Time (h) = 60.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1150E-07	3.4129E-04	1.1203E-05
Accumulated dose (rem)	9.4585E-04	3.5536E-01	1.2260E-02

CR Doses:

Time (h) = 60.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9503E-07	2.1566E-03	6.8797E-05
Accumulated dose (rem)	7.4936E-04	2.4520E+00	7.8697E-02

DW Compartment Nuclide Inventory:

Time (h) = 60.0000	Ci	kg	Atoms	Decay
Rb-86	3.9504E-01	4.8550E-09	3.3997E+16	4.7698E+16
I-131	2.6386E+03	2.1284E-05	9.7842E+19	3.3325E+20
I-132	1.1654E-04	1.1291E-14	5.1510E+10	4.3074E+20
I-133	9.1811E+02	8.1047E-07	3.6698E+18	6.4375E+20
I-135	1.1863E+01	3.3780E-09	1.5069E+16	5.4981E+20
Xe-133	1.2606E+04	6.7346E-05	3.0494E+20	1.1527E+20
Xe-133m	5.6854E+02	1.2914E-06	5.8473E+18	6.6157E+18
Xe-135	2.4083E+03	9.4306E-07	4.2068E+18	3.7187E+20
Xe-135m	5.5031E+00	6.0451E-11	2.6966E+14	7.7864E+19
Cs-134	4.3248E+01	3.3427E-05	1.5022E+20	4.7924E+18
Cs-136	1.1587E+01	1.5810E-07	7.0007E+17	1.4524E+18
Cs-137	3.3648E+01	3.8684E-04	1.7004E+21	3.7211E+18

DW Transport Group Inventory:

Time (h) = 60.0000	Atmosphere	Sump
Noble gases (atoms)	3.1499E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4253E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2198E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.3274E-07
Total I (Ci)		3.5686E+03

DW to WW Transport Group Inventory:

Time (h) = 60.0000 Leakage Transport

Noble gases (atoms)	9.4915E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00

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Aerosols (kg) 2.7067E+00

WW to DW Transport Group Inventory:

Time (h) = 60.0000 Leakage Transport

Noble gases (atoms) 9.4953E+23

Elemental I (atoms) 0.0000E+00

Organic I (atoms) 0.0000E+00

Aerosols (kg) 2.7575E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 60.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0751E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2144E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 60.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.7263E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3174E-05	4.8603E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 60.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6370E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8902E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 60.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6370E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8902E-05

EAB Doses:

Time (h) = 62.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6443E-06	1.2437E-02	4.0296E-04
Accumulated dose (rem)	9.0534E-03	4.9606E+00	1.6668E-01

LPZ Doses:

Time (h) = 62.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7199E-07	3.1525E-04	1.0341E-05
Accumulated dose (rem)	9.4622E-04	3.5567E-01	1.2271E-02

CR Doses:

Time (h) = 62.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3698E-07	1.9840E-03	6.3283E-05
Accumulated dose (rem)	7.4990E-04	2.4540E+00	7.8761E-02

DW Compartment Nuclide Inventory:

Time (h) = 62.0000	Ci	kg	Atoms	Decay
Rb-86	3.9354E-01	4.8366E-09	3.3868E+16	4.7803E+16
I-131	2.6179E+03	2.1117E-05	9.7074E+19	3.3395E+20
I-132	6.3741E-05	6.1751E-15	2.8172E+10	4.3074E+20
I-133	8.5831E+02	7.5768E-07	3.4307E+18	6.4399E+20
I-135	9.6120E+00	2.7370E-09	1.2209E+16	5.4981E+20
Xe-133	1.2475E+04	6.6645E-05	3.0176E+20	1.1861E+20
Xe-133m	5.5427E+02	1.2590E-06	5.7006E+18	6.7652E+18

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Xe-135	2.0678E+03	8.0972E-07	3.6120E+18	3.7247E+20
Xe-135m	4.4588E+00	4.8980E-11	2.1849E+14	7.7864E+19
Cs-134	4.3215E+01	3.3400E-05	1.5011E+20	4.8039E+18
Cs-136	1.1528E+01	1.5729E-07	6.9650E+17	1.4555E+18
Cs-137	3.3624E+01	3.8657E-04	1.6992E+21	3.7300E+18

DW Transport Group Inventory:

Time (h) = 62.0000	Atmosphere	Sump	
Noble gases (atoms)	3.1107E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.4201E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.1844E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.2848E-07
Total I (Ci)			3.4858E+03

DW to WW Transport Group Inventory:

Time (h) = 62.0000 Leakage Transport

Noble gases (atoms)	9.7262E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.7398E+00

WW to DW Transport Group Inventory:

Time (h) = 62.0000 Leakage Transport

Noble gases (atoms)	9.7300E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.7905E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 62.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0921E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2168E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 62.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	9.8797E+17
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3190E-05	4.8661E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 62.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6786E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8960E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 62.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.6786E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.8960E-05

EAB Doses:

Time (h) = 64.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.7615E-06	1.1523E-02	3.7320E-04
Accumulated dose (rem)	9.0621E-03	4.9721E+00	1.6705E-01

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LPZ Doses:

Time (h) = 64.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3794E-07	2.9208E-04	9.5753E-06
Accumulated dose (rem)	9.4656E-04	3.5596E-01	1.2280E-02

CR Doses:

Time (h) = 64.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8717E-07	1.8304E-03	5.8380E-05
Accumulated dose (rem)	7.5039E-04	2.4558E+00	7.8819E-02

DW Compartment Nuclide Inventory:

Time (h) = 64.0000	Ci	kg	Atoms	Decay
Rb-86	3.9205E-01	4.8182E-09	3.3739E+16	4.7908E+16
I-131	2.5973E+03	2.0951E-05	9.6311E+19	3.3464E+20
I-132	3.4861E-05	3.3773E-15	1.5408E+10	4.3074E+20
I-133	8.0240E+02	7.0833E-07	3.2073E+18	6.4421E+20
I-135	7.7880E+00	2.2176E-09	9.8925E+15	5.4982E+20
Xe-133	1.2344E+04	6.5948E-05	2.9861E+20	1.2191E+20
Xe-133m	5.4034E+02	1.2273E-06	5.5573E+18	6.9109E+18
Xe-135	1.7754E+03	6.9521E-07	3.1012E+18	3.7298E+20
Xe-135m	3.6126E+00	3.9685E-11	1.7703E+14	7.7865E+19
Cs-134	4.3181E+01	3.3374E-05	1.4999E+20	4.8155E+18
Cs-136	1.1469E+01	1.5649E-07	6.9294E+17	1.4586E+18
Cs-137	3.3600E+01	3.8629E-04	1.6980E+21	3.7390E+18

DW Transport Group Inventory:

Time (h) = 64.0000	Atmosphere	Sump
Noble gases (atoms)	3.0726E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4149E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.1499E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.2437E-07
Total I (Ci)		3.4075E+03

DW to WW Transport Group Inventory:

Time (h) = 64.0000 Leakage Transport

Noble gases (atoms)	9.9580E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.7728E+00

WW to DW Transport Group Inventory:

Time (h) = 64.0000 Leakage Transport

Noble gases (atoms)	9.9618E+23
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.8236E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 64.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.1088E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.2191E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 64.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.0031E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.3206E-05 4.8719E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 64.0000		
Noble gases (atoms)	0.0000E+00	2.7197E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9019E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 64.0000		
Noble gases (atoms)	0.0000E+00	2.7197E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9019E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 66.0000			
Delta dose (rem)	7.9992E-06	1.0709E-02	3.4672E-04
Accumulated dose (rem)	9.0701E-03	4.9828E+00	1.6740E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 66.0000			
Delta dose (rem)	3.0854E-07	2.7145E-04	8.8941E-06
Accumulated dose (rem)	9.4687E-04	3.5624E-01	1.2289E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 66.0000			
Delta dose (rem)	4.4434E-07	1.6937E-03	5.4018E-05
Accumulated dose (rem)	7.5083E-04	2.4575E+00	7.8873E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 66.0000				
Rb-86	3.9056E-01	4.7999E-09	3.3612E+16	4.8012E+16
I-131	2.5769E+03	2.0786E-05	9.5554E+19	3.3533E+20
I-132	1.9067E-05	1.8472E-15	8.4272E+09	4.3074E+20
I-133	7.5014E+02	6.6219E-07	2.9984E+18	6.4442E+20
I-135	6.3101E+00	1.7968E-09	8.0152E+15	5.4982E+20
Xe-133	1.2215E+04	6.5255E-05	2.9547E+20	1.2518E+20
Xe-133m	5.2673E+02	1.1964E-06	5.4173E+18	7.0530E+18
Xe-135	1.5242E+03	5.9686E-07	2.6625E+18	3.7342E+20
Xe-135m	2.9271E+00	3.2154E-11	1.4344E+14	7.7865E+19
Cs-134	4.3147E+01	3.3348E-05	1.4987E+20	4.8269E+18
Cs-136	1.1411E+01	1.5569E-07	6.8941E+17	1.4616E+18
Cs-137	3.3577E+01	3.8602E-04	1.6968E+21	3.7479E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 66.0000		
Noble gases (atoms)	3.0355E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.4098E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.1162E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.2039E-07
Total I (Ci)		3.3334E+03

DW to WW Transport Group Inventory:

Time (h) = 66.0000 Leakage Transport

Noble gases (atoms)	1.0187E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.8058E+00

WW to DW Transport Group Inventory:

Time (h) = 66.0000 Leakage Transport

Noble gases (atoms)	1.0191E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00

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Aerosols (kg) 2.8566E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 66.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1254E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2215E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 66.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0181E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3222E-05	4.8777E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 66.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7603E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9077E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 66.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.7603E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9077E-05

EAB Doses:

Time (h) = 68.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3394E-06	9.9838E-03	3.2315E-04
Accumulated dose (rem)	9.0775E-03	4.9928E+00	1.6772E-01

LPZ Doses:

Time (h) = 68.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8309E-07	2.5306E-04	8.2878E-06
Accumulated dose (rem)	9.4715E-04	3.5649E-01	1.2297E-02

CR Doses:

Time (h) = 68.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0745E-07	1.5719E-03	5.0134E-05
Accumulated dose (rem)	7.5124E-04	2.4591E+00	7.8923E-02

DW Compartment Nuclide Inventory:

Time (h) = 68.0000	Ci	kg	Atoms	Decay
Rb-86	3.8908E-01	4.7817E-09	3.3484E+16	4.8116E+16
I-131	2.5567E+03	2.0623E-05	9.4803E+19	3.3602E+20
I-132	1.0428E-05	1.0103E-15	4.6090E+09	4.3074E+20
I-133	7.0128E+02	6.1906E-07	2.8031E+18	6.4461E+20
I-135	5.1127E+00	1.4558E-09	6.4942E+15	5.4982E+20
Xe-133	1.2086E+04	6.4566E-05	2.9235E+20	1.2842E+20
Xe-133m	5.1344E+02	1.1662E-06	5.2807E+18	7.1915E+18
Xe-135	1.3085E+03	5.1241E-07	2.2858E+18	3.7379E+20
Xe-135m	2.3716E+00	2.6053E-11	1.1622E+14	7.7865E+19
Cs-134	4.3113E+01	3.3322E-05	1.4976E+20	4.8384E+18
Cs-136	1.1353E+01	1.5490E-07	6.8589E+17	1.4646E+18
Cs-137	3.3553E+01	3.8575E-04	1.6956E+21	3.7569E+18

DW Transport Group Inventory:

Time (h) = 68.0000	Atmosphere	Sump
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Noble gases (atoms)	2.9992E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.4047E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.0835E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.1654E-07
Total I (Ci)			3.2631E+03

DW to WW Transport Group Inventory:
Time (h) = 68.0000 Leakage Transport

Noble gases (atoms)	1.0413E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.8388E+00

WW to DW Transport Group Inventory:
Time (h) = 68.0000 Leakage Transport

Noble gases (atoms)	1.0417E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.8895E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 68.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1418E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2239E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 68.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0329E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3237E-05	4.8836E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 68.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8003E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9136E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 68.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8003E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9136E-05

EAB Doses:

Time (h) = 70.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.7672E-06	9.3369E-03	3.0214E-04
Accumulated dose (rem)	9.0842E-03	5.0021E+00	1.6802E-01

LPZ Doses:

Time (h) = 70.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6102E-07	2.3666E-04	7.7478E-06
Accumulated dose (rem)	9.4741E-04	3.5673E-01	1.2305E-02

CR Doses:

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Time (h) = 70.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7561E-07	1.4634E-03	4.6675E-05
Accumulated dose (rem)	7.5161E-04	2.4605E+00	7.8970E-02

DW Compartment Nuclide Inventory:

Time (h) = 70.0000	Ci	kg	Atoms	Decay
Rb-86	3.8760E-01	4.7636E-09	3.3357E+16	4.8220E+16
I-131	2.5366E+03	2.0461E-05	9.4058E+19	3.3670E+20
I-132	5.7034E-06	5.5254E-16	2.5208E+09	4.3074E+20
I-133	6.5560E+02	5.7874E-07	2.6205E+18	6.4479E+20
I-135	4.1425E+00	1.1796E-09	5.2618E+15	5.4982E+20
Xe-133	1.1958E+04	6.3883E-05	2.8926E+20	1.3162E+20
Xe-133m	5.0047E+02	1.1368E-06	5.1472E+18	7.3265E+18
Xe-135	1.1234E+03	4.3989E-07	1.9623E+18	3.7412E+20
Xe-135m	1.9216E+00	2.1109E-11	9.4162E+13	7.7866E+19
Cs-134	4.3080E+01	3.3296E-05	1.4964E+20	4.8499E+18
Cs-136	1.1295E+01	1.5411E-07	6.8240E+17	1.4677E+18
Cs-137	3.3529E+01	3.8547E-04	1.6944E+21	3.7658E+18

DW Transport Group Inventory:

Time (h) = 70.0000	Atmosphere	Sump
Noble gases (atoms)	2.9637E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3997E-04	4.5513E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	3.0515E-07
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	3.1280E-07
Total I (Ci)		3.1963E+03

DW to WW Transport Group Inventory:

Time (h) = 70.0000 Leakage Transport

Noble gases (atoms)	1.0637E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.8717E+00

WW to DW Transport Group Inventory:

Time (h) = 70.0000 Leakage Transport

Noble gases (atoms)	1.0640E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.9224E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 70.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1579E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2263E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 70.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0475E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3253E-05	4.8894E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 70.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8399E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9194E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
Time (h) = 70.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8399E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9194E-05

EAB Doses:

Time (h) = 72.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.2698E-06	8.7595E-03	2.8341E-04
Accumulated dose (rem)	9.0905E-03	5.0109E+00	1.6831E-01

LPZ Doses:

Time (h) = 72.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4184E-07	2.2203E-04	7.2665E-06
Accumulated dose (rem)	9.4766E-04	3.5695E-01	1.2312E-02

CR Doses:

Time (h) = 72.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4808E-07	1.3666E-03	4.3591E-05
Accumulated dose (rem)	7.5196E-04	2.4619E+00	7.9014E-02

DW Compartment Nuclide Inventory:

Time (h) = 72.0000	Ci	kg	Atoms	Decay
Rb-86	3.8613E-01	4.7455E-09	3.3231E+16	4.8323E+16
I-131	2.5167E+03	2.0300E-05	9.3319E+19	3.3737E+20
I-132	3.1193E-06	3.0220E-16	1.3787E+09	4.3074E+20
I-133	6.1290E+02	5.4104E-07	2.4498E+18	6.4496E+20
I-135	3.3564E+00	9.5572E-10	4.2633E+15	5.4982E+20
Xe-133	1.1831E+04	6.3204E-05	2.8618E+20	1.3478E+20
Xe-133m	4.8780E+02	1.1080E-06	5.0169E+18	7.4580E+18
Xe-135	9.6433E+02	3.7762E-07	1.6845E+18	3.7439E+20
Xe-135m	1.5569E+00	1.7103E-11	7.6294E+13	7.7866E+19
Cs-134	4.3046E+01	3.3270E-05	1.4952E+20	4.8614E+18
Cs-136	1.1237E+01	1.5332E-07	6.7892E+17	1.4707E+18
Cs-137	3.3505E+01	3.8520E-04	1.6932E+21	3.7747E+18

DW Transport Group Inventory:

Time (h) = 72.0000	Atmosphere	Sump
Noble gases (atoms)	2.9288E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3947E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.0203E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.0918E-07
Total I (Ci)		3.1329E+03

DW to WW Transport Group Inventory:

Time (h) = 72.0000 Leakage Transport

Noble gases (atoms)	1.0858E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.9046E+00

WW to DW Transport Group Inventory:

Time (h) = 72.0000 Leakage Transport

Noble gases (atoms)	1.0861E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.9553E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 72.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1739E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2287E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 72.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0619E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3269E-05	4.8951E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 72.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8791E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9252E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 72.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.8791E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9252E-05

EAB Doses:

Time (h) = 74.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8366E-06	8.2439E-03	2.6669E-04
Accumulated dose (rem)	9.0963E-03	5.0191E+00	1.6857E-01

LPZ Doses:

Time (h) = 74.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2512E-07	2.0896E-04	6.8370E-06
Accumulated dose (rem)	9.4788E-04	3.5716E-01	1.2319E-02

CR Doses:

Time (h) = 74.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2422E-07	1.2803E-03	4.0840E-05
Accumulated dose (rem)	7.5229E-04	2.4632E+00	7.9054E-02

DW Compartment Nuclide Inventory:

Time (h) = 74.0000	Ci	kg	Atoms	Decay
Rb-86	3.8467E-01	4.7275E-09	3.3105E+16	4.8425E+16
I-131	2.4969E+03	2.0140E-05	9.2586E+19	3.3804E+20
I-132	1.7060E-06	1.6528E-16	7.5404E+08	4.3074E+20
I-133	5.7298E+02	5.0580E-07	2.2902E+18	6.4512E+20
I-135	2.7194E+00	7.7436E-10	3.4543E+15	5.4982E+20
Xe-133	1.1704E+04	6.2529E-05	2.8313E+20	1.3792E+20
Xe-133m	4.7544E+02	1.0799E-06	4.8898E+18	7.5863E+18
Xe-135	8.2780E+02	3.2415E-07	1.4460E+18	3.7463E+20
Xe-135m	1.2615E+00	1.3857E-11	6.1816E+13	7.7866E+19
Cs-134	4.3013E+01	3.3244E-05	1.4940E+20	4.8728E+18
Cs-136	1.1180E+01	1.5254E-07	6.7545E+17	1.4736E+18
Cs-137	3.3481E+01	3.8493E-04	1.6920E+21	3.7836E+18

DW Transport Group Inventory:

Time (h) = 74.0000	Atmosphere	Sump
Noble gases (atoms)	2.8946E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3897E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.9898E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.0566E-07
Total I (Ci)		3.0726E+03

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Time (h) = 74.0000 Leakage Transport

Noble gases (atoms)	1.1076E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.9374E+00

WW to DW Transport Group Inventory:

Time (h) = 74.0000 Leakage Transport

Noble gases (atoms)	1.1080E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.9881E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 74.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1897E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2311E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 74.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.0762E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3284E-05	4.9009E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 74.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9178E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9310E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 74.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9178E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9310E-05

EAB Doses:

Time (h) = 76.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4582E-06	7.7828E-03	2.5175E-04
Accumulated dose (rem)	9.1018E-03	5.0269E+00	1.6883E-01

LPZ Doses:

Time (h) = 76.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1053E-07	1.9727E-04	6.4533E-06
Accumulated dose (rem)	9.4809E-04	3.5735E-01	1.2326E-02

CR Doses:

Time (h) = 76.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0349E-07	1.2032E-03	3.8384E-05
Accumulated dose (rem)	7.5259E-04	2.4644E+00	7.9093E-02

DW Compartment Nuclide Inventory:

Time (h) = 76.0000	Ci	kg	Atoms	Decay
Rb-86	3.8321E-01	4.7096E-09	3.2979E+16	4.8528E+16

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I-131	2.4773E+03	1.9982E-05	9.1859E+19	3.3870E+20
I-132	9.3308E-07	9.0396E-17	4.1241E+08	4.3074E+20
I-133	5.3566E+02	4.7286E-07	2.1411E+18	6.4527E+20
I-135	2.2034E+00	6.2741E-10	2.7988E+15	5.4982E+20
Xe-133	1.1579E+04	6.1860E-05	2.8010E+20	1.4102E+20
Xe-133m	4.6337E+02	1.0525E-06	4.7656E+18	7.7113E+18
Xe-135	7.1057E+02	2.7825E-07	1.2412E+18	3.7484E+20
Xe-135m	1.0221E+00	1.1228E-11	5.0085E+13	7.7866E+19
Cs-134	4.2979E+01	3.3218E-05	1.4929E+20	4.8843E+18
Cs-136	1.1123E+01	1.5176E-07	6.7201E+17	1.4766E+18
Cs-137	3.3458E+01	3.8465E-04	1.6908E+21	3.7926E+18

DW Transport Group Inventory:

Time (h) =	76.0000	Atmosphere	Sump	
Noble gases (atoms)		2.8610E+20	0.0000E+00	
Elemental I (atoms)		0.0000E+00	0.0000E+00	
Organic I (atoms)		0.0000E+00	0.0000E+00	
Aerosols (kg)		4.3848E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)				2.9600E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)				3.0224E-07
Total I (Ci)				3.0151E+03

DW to WW Transport Group Inventory:

Time (h) = 76.0000 Leakage Transport

Noble gases (atoms)	1.1292E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	2.9702E+00

WW to DW Transport Group Inventory:

Time (h) = 76.0000 Leakage Transport

Noble gases (atoms)	1.1295E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.0209E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) =	76.0000	Filtered Transported
Noble gases (atoms)		0.0000E+00 1.2053E+19
Elemental I (atoms)		0.0000E+00 0.0000E+00
Organic I (atoms)		0.0000E+00 0.0000E+00
Aerosols (kg)		0.0000E+00 3.2334E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) =	76.0000	Filtered Transported
Noble gases (atoms)		0.0000E+00 1.0903E+18
Elemental I (atoms)		0.0000E+00 0.0000E+00
Organic I (atoms)		0.0000E+00 0.0000E+00
Aerosols (kg)		1.3300E-05 4.9067E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) =	76.0000	Filtered Transported
Noble gases (atoms)		0.0000E+00 2.9560E+18
Elemental I (atoms)		0.0000E+00 0.0000E+00
Organic I (atoms)		0.0000E+00 0.0000E+00
Aerosols (kg)		0.0000E+00 4.9369E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) =	76.0000	Filtered Transported
Noble gases (atoms)		0.0000E+00 2.9560E+18
Elemental I (atoms)		0.0000E+00 0.0000E+00
Organic I (atoms)		0.0000E+00 0.0000E+00
Aerosols (kg)		0.0000E+00 4.9369E-05

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EAB Doses:

Time (h) = 78.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1270E-06	7.3701E-03	2.3839E-04
Accumulated dose (rem)	9.1069E-03	5.0343E+00	1.6906E-01

LPZ Doses:

Time (h) = 78.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9776E-07	1.8681E-04	6.1103E-06
Accumulated dose (rem)	9.4829E-04	3.5754E-01	1.2332E-02

CR Doses:

Time (h) = 78.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8544E-07	1.1343E-03	3.6189E-05
Accumulated dose (rem)	7.5288E-04	2.4655E+00	7.9129E-02

DW Compartment Nuclide Inventory:

Time (h) = 78.0000	Ci	kg	Atoms	Decay
Rb-86	3.8176E-01	4.6918E-09	3.2854E+16	4.8629E+16
I-131	2.4578E+03	1.9825E-05	9.1137E+19	3.3936E+20
I-132	5.1033E-07	4.9440E-17	2.2556E+08	4.3074E+20
I-133	5.0077E+02	4.4206E-07	2.0016E+18	6.4540E+20
I-135	1.7853E+00	5.0835E-10	2.2677E+15	5.4982E+20
Xe-133	1.1455E+04	6.1196E-05	2.7709E+20	1.4408E+20
Xe-133m	4.5159E+02	1.0257E-06	4.6445E+18	7.8331E+18
Xe-135	6.0993E+02	2.3884E-07	1.0654E+18	3.7501E+20
Xe-135m	8.2814E-01	9.0971E-12	4.0581E+13	7.7866E+19
Cs-134	4.2945E+01	3.3193E-05	1.4917E+20	4.8957E+18
Cs-136	1.1066E+01	1.5099E-07	6.6858E+17	1.4796E+18
Cs-137	3.3434E+01	3.8438E-04	1.6896E+21	3.8015E+18

DW Transport Group Inventory:

Time (h) = 78.0000	Atmosphere	Sump
Noble gases (atoms)	2.8280E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3800E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.9308E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.9892E-07
Total I (Ci)		2.9604E+03

DW to WW Transport Group Inventory:

Time (h) = 78.0000 Leakage Transport

Noble gases (atoms)	1.1505E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.0030E+00

WW to DW Transport Group Inventory:

Time (h) = 78.0000 Leakage Transport

Noble gases (atoms)	1.1509E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.0537E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 78.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2207E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2358E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 78.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1042E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3316E-05	4.9125E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 78.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9938E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9427E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 78.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.9938E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9427E-05

EAB Doses:

Time (h) = 80.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8363E-06	7.0004E-03	2.2643E-04
Accumulated dose (rem)	9.1117E-03	5.0413E+00	1.6929E-01

LPZ Doses:

Time (h) = 80.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8654E-07	1.7744E-04	5.8032E-06
Accumulated dose (rem)	9.4848E-04	3.5772E-01	1.2337E-02

CR Doses:

Time (h) = 80.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6968E-07	1.0726E-03	3.4226E-05
Accumulated dose (rem)	7.5315E-04	2.4666E+00	7.9163E-02

DW Compartment Nuclide Inventory:

Time (h) = 80.0000	Ci	kg	Atoms	Decay
Rb-86	3.8031E-01	4.6740E-09	3.2729E+16	4.8731E+16
I-131	2.4385E+03	1.9669E-05	9.0421E+19	3.4001E+20
I-132	2.7911E-07	2.7040E-17	1.2336E+08	4.3074E+20
I-133	4.6815E+02	4.1326E-07	1.8712E+18	6.4553E+20
I-135	1.4465E+00	4.1188E-10	1.8374E+15	5.4982E+20
Xe-133	1.1331E+04	6.0536E-05	2.7410E+20	1.4712E+20
Xe-133m	4.4009E+02	9.9963E-07	4.5263E+18	7.9518E+18
Xe-135	5.2353E+02	2.0501E-07	9.1450E+17	3.7516E+20
Xe-135m	6.7099E-01	7.3708E-12	3.2880E+13	7.7866E+19
Cs-134	4.2912E+01	3.3167E-05	1.4906E+20	4.9072E+18
Cs-136	1.1010E+01	1.5022E-07	6.6517E+17	1.4825E+18
Cs-137	3.3410E+01	3.8411E-04	1.6884E+21	3.8104E+18

DW Transport Group Inventory:

Time (h) = 80.0000	Atmosphere	Sump
Noble gases (atoms)	2.7955E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3751E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.9023E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.9568E-07
Total I (Ci)		2.9081E+03

DW to WW Transport Group Inventory:

Time (h) = 80.0000 Leakage Transport

Noble gases (atoms)	1.1716E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.0357E+00

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WW to DW Transport Group Inventory:

Time (h) = 80.0000 Leakage Transport

Noble gases (atoms)	1.1719E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.0864E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 80.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2360E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2382E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 80.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1180E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3331E-05	4.9182E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 80.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0311E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9485E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 80.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0311E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9485E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 82.0000			
Delta dose (rem)	4.5805E-06	6.6687E-03	2.1570E-04
Accumulated dose (rem)	9.1163E-03	5.0480E+00	1.6951E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 82.0000			
Delta dose (rem)	1.7668E-07	1.6903E-04	5.5279E-06
Accumulated dose (rem)	9.4865E-04	3.5789E-01	1.2343E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 82.0000			
Delta dose (rem)	2.5587E-07	1.0174E-03	3.2469E-05
Accumulated dose (rem)	7.5340E-04	2.4676E+00	7.9196E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 82.0000				
Rb-86	3.7887E-01	4.6562E-09	3.2605E+16	4.8832E+16
I-131	2.4193E+03	1.9515E-05	8.9710E+19	3.4065E+20
I-132	1.5265E-07	1.4789E-17	6.7470E+07	4.3074E+20
I-133	4.3766E+02	3.8635E-07	1.7493E+18	6.4565E+20
I-135	1.1720E+00	3.3372E-10	1.4887E+15	5.4982E+20
Xe-133	1.1209E+04	5.9883E-05	2.7114E+20	1.5012E+20
Xe-133m	4.2888E+02	9.7415E-07	4.4109E+18	8.0675E+18
Xe-135	4.4936E+02	1.7596E-07	7.8493E+17	3.7529E+20
Xe-135m	5.4366E-01	5.9721E-12	2.6641E+13	7.7866E+19

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Cs-134	4.2878E+01	3.3141E-05	1.4894E+20	4.9186E+18
Cs-136	1.0953E+01	1.4945E-07	6.6178E+17	1.4854E+18
Cs-137	3.3387E+01	3.8383E-04	1.6872E+21	3.8193E+18

DW Transport Group Inventory:

Time (h) = 82.0000	Atmosphere	Sump	
Noble gases (atoms)	2.7634E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.3703E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.8743E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.9253E-07
Total I (Ci)			2.8582E+03

DW to WW Transport Group Inventory:

Time (h) = 82.0000 Leakage Transport

Noble gases (atoms)	1.1924E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.0684E+00

WW to DW Transport Group Inventory:

Time (h) = 82.0000 Leakage Transport

Noble gases (atoms)	1.1928E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1191E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 82.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2510E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2405E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 82.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1316E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3347E-05	4.9240E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 82.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0680E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9543E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 82.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.0680E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9543E-05

EAB Doses:

Time (h) = 84.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3547E-06	6.3707E-03	2.0607E-04
Accumulated dose (rem)	9.1207E-03	5.0543E+00	1.6971E-01

LPZ Doses:

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Time (h) = 84.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6797E-07	1.6148E-04	5.2809E-06
Accumulated dose (rem)	9.4882E-04	3.5805E-01	1.2348E-02

CR Doses:

Time (h) = 84.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4374E-07	9.6788E-04	3.0893E-05
Accumulated dose (rem)	7.5365E-04	2.4686E+00	7.9227E-02

DW Compartment Nuclide Inventory:

Time (h) = 84.0000	Ci	kg	Atoms	Decay
Rb-86	3.7743E-01	4.6386E-09	3.2482E+16	4.8933E+16
I-131	2.4003E+03	1.9361E-05	8.9005E+19	3.4130E+20
I-132	8.3490E-08	8.0885E-18	3.6901E+07	4.3074E+20
I-133	4.0915E+02	3.6118E-07	1.6354E+18	6.4577E+20
I-135	9.4959E-01	2.7039E-10	1.2062E+15	5.4982E+20
Xe-133	1.1088E+04	5.9234E-05	2.6821E+20	1.5309E+20
Xe-133m	4.1793E+02	9.4929E-07	4.2983E+18	8.1803E+18
Xe-135	3.8568E+02	1.5103E-07	6.7371E+17	3.7540E+20
Xe-135m	4.4049E-01	4.8388E-12	2.1585E+13	7.7866E+19
Cs-134	4.2845E+01	3.3115E-05	1.4882E+20	4.9300E+18
Cs-136	1.0898E+01	1.4869E-07	6.5840E+17	1.4883E+18
Cs-137	3.3363E+01	3.8356E-04	1.6860E+21	3.8282E+18

DW Transport Group Inventory:

Time (h) = 84.0000	Atmosphere	Sump
Noble gases (atoms)	2.7318E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3655E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.8469E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.8946E-07
Total I (Ci)		2.8104E+03

DW to WW Transport Group Inventory:

Time (h) = 84.0000 Leakage Transport

Noble gases (atoms)	1.2130E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1010E+00

WW to DW Transport Group Inventory:

Time (h) = 84.0000 Leakage Transport

Noble gases (atoms)	1.2134E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1518E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 84.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2659E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2429E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 84.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1451E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3362E-05	4.9298E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 84.0000	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	3.1045E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9600E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 84.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1045E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9600E-05

EAB Doses:

Time (h) = 86.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1548E-06	6.1027E-03	1.9741E-04
Accumulated dose (rem)	9.1248E-03	5.0604E+00	1.6991E-01

LPZ Doses:

Time (h) = 86.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6026E-07	1.5468E-04	5.0588E-06
Accumulated dose (rem)	9.4898E-04	3.5820E-01	1.2353E-02

CR Doses:

Time (h) = 86.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3305E-07	9.2342E-04	2.9479E-05
Accumulated dose (rem)	7.5388E-04	2.4695E+00	7.9256E-02

DW Compartment Nuclide Inventory:

Time (h) = 86.0000	Ci	kg	Atoms	Decay
Rb-86	3.7600E-01	4.6210E-09	3.2358E+16	4.9033E+16
I-131	2.3815E+03	1.9209E-05	8.8306E+19	3.4193E+20
I-132	4.5663E-08	4.4238E-18	2.0182E+07	4.3074E+20
I-133	3.8250E+02	3.3766E-07	1.5289E+18	6.4587E+20
I-135	7.6939E-01	2.1908E-10	9.7729E+14	5.4982E+20
Xe-133	1.0967E+04	5.8591E-05	2.6529E+20	1.5602E+20
Xe-133m	4.0725E+02	9.2504E-07	4.1885E+18	8.2901E+18
Xe-135	3.3102E+02	1.2962E-07	5.7823E+17	3.7550E+20
Xe-135m	3.5690E-01	3.9206E-12	1.7489E+13	7.7866E+19
Cs-134	4.2811E+01	3.3089E-05	1.4871E+20	4.9414E+18
Cs-136	1.0842E+01	1.4793E-07	6.5504E+17	1.4912E+18
Cs-137	3.3339E+01	3.8329E-04	1.6848E+21	3.8370E+18

DW Transport Group Inventory:

Time (h) = 86.0000	Atmosphere	Sump
Noble gases (atoms)	2.7006E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3608E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.8200E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.8646E-07
Total I (Ci)		2.7647E+03

DW to WW Transport Group Inventory:

Time (h) = 86.0000 Leakage Transport

Noble gases (atoms)	1.2333E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1337E+00

WW to DW Transport Group Inventory:

Time (h) = 86.0000 Leakage Transport

Noble gases (atoms)	1.2337E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1844E+00

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 86.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2807E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2453E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 86.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1584E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3378E-05	4.9355E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 86.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1406E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9658E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 86.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1406E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9658E-05

EAB Doses:

Time (h) = 88.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9774E-06	5.8612E-03	1.8962E-04
Accumulated dose (rem)	9.1288E-03	5.0663E+00	1.7010E-01

LPZ Doses:

Time (h) = 88.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5341E-07	1.4856E-04	4.8589E-06
Accumulated dose (rem)	9.4914E-04	3.5835E-01	1.2358E-02

CR Doses:

Time (h) = 88.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2359E-07	8.8345E-04	2.8208E-05
Accumulated dose (rem)	7.5410E-04	2.4704E+00	7.9284E-02

DW Compartment Nuclide Inventory:

Time (h) = 88.0000	Ci	kg	Atoms	Decay
Rb-86	3.7457E-01	4.6035E-09	3.2236E+16	4.9133E+16
I-131	2.3628E+03	1.9058E-05	8.7612E+19	3.4257E+20
I-132	2.4974E-08	2.4195E-18	1.1038E+07	4.3074E+20
I-133	3.5759E+02	3.1566E-07	1.4293E+18	6.4597E+20
I-135	6.2338E-01	1.7751E-10	7.9184E+14	5.4982E+20
Xe-133	1.0848E+04	5.7953E-05	2.6241E+20	1.5893E+20
Xe-133m	3.9684E+02	9.0138E-07	4.0814E+18	8.3972E+18
Xe-135	2.8410E+02	1.1125E-07	4.9627E+17	3.7558E+20
Xe-135m	2.8917E-01	3.1766E-12	1.4170E+13	7.7866E+19
Cs-134	4.2778E+01	3.3063E-05	1.4859E+20	4.9528E+18
Cs-136	1.0787E+01	1.4718E-07	6.5170E+17	1.4941E+18
Cs-137	3.3316E+01	3.8302E-04	1.6836E+21	3.8459E+18

DW Transport Group Inventory:

Time (h) = 88.0000	Atmosphere	Sump
Noble gases (atoms)	2.6698E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.3561E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.7937E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.8353E-07
Total I (Ci)			2.7210E+03

DW to WW Transport Group Inventory:
Time (h) = 88.0000 Leakage Transport

Noble gases (atoms)	1.2535E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1662E+00

WW to DW Transport Group Inventory:
Time (h) = 88.0000 Leakage Transport

Noble gases (atoms)	1.2539E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.2170E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 88.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2952E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2476E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 88.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1716E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3394E-05	4.9412E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 88.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1763E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9716E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 88.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.1763E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9716E-05

EAB Doses:

Time (h) = 90.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8192E-06	5.6433E-03	1.8259E-04
Accumulated dose (rem)	9.1326E-03	5.0719E+00	1.7028E-01

LPZ Doses:

Time (h) = 90.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4731E-07	1.4304E-04	4.6786E-06
Accumulated dose (rem)	9.4928E-04	3.5849E-01	1.2363E-02

CR Doses:

Time (h) = 90.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1519E-07	8.4746E-04	2.7064E-05

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Accumulated dose (rem) 7.5432E-04 2.4712E+00 7.9311E-02

DW Compartment Nuclide Inventory:

Time (h) = 90.0000	Ci	kg	Atoms	Decay
Rb-86	3.7315E-01	4.5860E-09	3.2113E+16	4.9233E+16
I-131	2.3442E+03	1.8909E-05	8.6924E+19	3.4319E+20
I-132	1.3659E-08	1.3233E-18	6.0371E+06	4.3074E+20
I-133	3.3429E+02	2.9510E-07	1.3362E+18	6.4606E+20
I-135	5.0509E-01	1.4382E-10	6.4157E+14	5.4983E+20
Xe-133	1.0729E+04	5.7320E-05	2.5954E+20	1.6180E+20
Xe-133m	3.8667E+02	8.7830E-07	3.9769E+18	8.5015E+18
Xe-135	2.4383E+02	9.5480E-08	4.2592E+17	3.7565E+20
Xe-135m	2.3430E-01	2.5738E-12	1.1481E+13	7.7866E+19
Cs-134	4.2745E+01	3.3037E-05	1.4847E+20	4.9642E+18
Cs-136	1.0732E+01	1.4643E-07	6.4838E+17	1.4970E+18
Cs-137	3.3292E+01	3.8275E-04	1.6824E+21	3.8548E+18

DW Transport Group Inventory:

Time (h) = 90.0000	Atmosphere	Sump
Noble gases (atoms)	2.6394E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3514E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.7678E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.8067E-07
Total I (Ci)		2.6790E+03

DW to WW Transport Group Inventory:

Time (h) = 90.0000 Leakage Transport

Noble gases (atoms)	1.2734E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.1988E+00

WW to DW Transport Group Inventory:

Time (h) = 90.0000 Leakage Transport

Noble gases (atoms)	1.2737E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.2495E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 90.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3096E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2500E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 90.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1846E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3409E-05	4.9470E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 90.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2115E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9774E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

Pathway

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Time (h) = 90.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2115E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9774E-05

EAB Doses:

Time (h) = 92.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6779E-06	5.4463E-03	1.7624E-04
Accumulated dose (rem)	9.1363E-03	5.0774E+00	1.7046E-01

LPZ Doses:

Time (h) = 92.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4186E-07	1.3805E-04	4.5157E-06
Accumulated dose (rem)	9.4942E-04	3.5863E-01	1.2367E-02

CR Doses:

Time (h) = 92.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0771E-07	8.1501E-04	2.6032E-05
Accumulated dose (rem)	7.5452E-04	2.4720E+00	7.9337E-02

DW Compartment Nuclide Inventory:

Time (h) = 92.0000	Ci	kg	Atoms	Decay
Rb-86	3.7174E-01	4.5686E-09	3.1992E+16	4.9332E+16
I-131	2.3258E+03	1.8760E-05	8.6241E+19	3.4381E+20
I-132	7.4705E-09	7.2374E-19	3.3019E+06	4.3074E+20
I-133	3.1252E+02	2.7588E-07	1.2492E+18	6.4615E+20
I-135	4.0924E-01	1.1653E-10	5.1983E+14	5.4983E+20
Xe-133	1.0612E+04	5.6693E-05	2.5670E+20	1.6464E+20
Xe-133m	3.7676E+02	8.5578E-07	3.8749E+18	8.6032E+18
Xe-135	2.0926E+02	8.1943E-08	3.6554E+17	3.7571E+20
Xe-135m	1.8984E-01	2.0854E-12	9.3025E+12	7.7866E+19
Cs-134	4.2711E+01	3.3012E-05	1.4836E+20	4.9756E+18
Cs-136	1.0677E+01	1.4568E-07	6.4507E+17	1.4998E+18
Cs-137	3.3268E+01	3.8248E-04	1.6813E+21	3.8637E+18

DW Transport Group Inventory:

Time (h) = 92.0000	Atmosphere	Sump
Noble gases (atoms)	2.6094E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3467E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.7424E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7787E-07
Total I (Ci)		2.6387E+03

DW to WW Transport Group Inventory:

Time (h) = 92.0000 Leakage Transport

Noble gases (atoms)	1.2930E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.2313E+00

WW to DW Transport Group Inventory:

Time (h) = 92.0000 Leakage Transport

Noble gases (atoms)	1.2934E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.2821E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 92.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3239E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2523E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 92.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.1974E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3425E-05	4.9527E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 92.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2464E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9831E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 92.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2464E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9831E-05

EAB Doses:

Time (h) = 94.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5511E-06	5.2679E-03	1.7049E-04
Accumulated dose (rem)	9.1399E-03	5.0826E+00	1.7063E-01

LPZ Doses:

Time (h) = 94.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3697E-07	1.3352E-04	4.3683E-06
Accumulated dose (rem)	9.4956E-04	3.5877E-01	1.2372E-02

CR Doses:

Time (h) = 94.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0101E-07	7.8569E-04	2.5101E-05
Accumulated dose (rem)	7.5473E-04	2.4728E+00	7.9362E-02

DW Compartment Nuclide Inventory:

Time (h) = 94.0000	Ci	kg	Atoms	Decay
Rb-86	3.7033E-01	4.5513E-09	3.1870E+16	4.9431E+16
I-131	2.3075E+03	1.8613E-05	8.5563E+19	3.4443E+20
I-132	4.0858E-09	3.9583E-19	1.8059E+06	4.3074E+20
I-133	2.9216E+02	2.5791E-07	1.1678E+18	6.4623E+20
I-135	3.3158E-01	9.4418E-11	4.2118E+14	5.4983E+20
Xe-133	1.0496E+04	5.6072E-05	2.5389E+20	1.6745E+20
Xe-133m	3.6710E+02	8.3383E-07	3.7755E+18	8.7022E+18
Xe-135	1.7959E+02	7.0325E-08	3.1371E+17	3.7576E+20
Xe-135m	1.5381E-01	1.6896E-12	7.5372E+12	7.7866E+19
Cs-134	4.2678E+01	3.2986E-05	1.4824E+20	4.9870E+18
Cs-136	1.0622E+01	1.4494E-07	6.4178E+17	1.5027E+18
Cs-137	3.3245E+01	3.8220E-04	1.6801E+21	3.8725E+18

DW Transport Group Inventory:

Time (h) = 94.0000	Atmosphere	Sump
Noble gases (atoms)	2.5798E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3421E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.7174E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7514E-07
Total I (Ci)		2.6000E+03

DW to WW Transport Group Inventory:

Time (h) = 94.0000 Leakage Transport

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Noble gases (atoms)	1.3125E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.2638E+00

WW to DW Transport Group Inventory:
Time (h) = 94.0000 Leakage Transport

Noble gases (atoms)	1.3129E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.3145E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 94.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3379E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2547E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 94.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2102E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3440E-05	4.9584E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 94.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2808E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9889E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 94.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.2808E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9889E-05

EAB Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4370E-06	5.1059E-03	1.6527E-04
Accumulated dose (rem)	9.1433E-03	5.0878E+00	1.7079E-01

LPZ Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3257E-07	1.2942E-04	4.2346E-06
Accumulated dose (rem)	9.4969E-04	3.5890E-01	1.2376E-02

CR Doses:

Time (h) = 96.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9499E-07	7.5917E-04	2.4259E-05
Accumulated dose (rem)	7.5492E-04	2.4736E+00	7.9387E-02

DW Compartment Nuclide Inventory:

Time (h) = 96.0000	Ci	kg	Atoms	Decay
Rb-86	3.6892E-01	4.5340E-09	3.1749E+16	4.9529E+16
I-131	2.2894E+03	1.8466E-05	8.4891E+19	3.4504E+20
I-132	2.2346E-09	2.1649E-19	9.8768E+05	4.3074E+20

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I-133	2.7313E+02	2.4111E-07	1.0917E+18	6.4631E+20
I-135	2.6866E-01	7.6500E-11	3.4126E+14	5.4983E+20
Xe-133	1.0380E+04	5.5456E-05	2.5110E+20	1.7023E+20
Xe-133m	3.5767E+02	8.1241E-07	3.6785E+18	8.7987E+18
Xe-135	1.5412E+02	6.0352E-08	2.6922E+17	3.7581E+20
Xe-135m	1.2462E-01	1.3690E-12	6.1069E+12	7.7866E+19
Cs-134	4.2645E+01	3.2960E-05	1.4813E+20	4.9983E+18
Cs-136	1.0568E+01	1.4420E-07	6.3851E+17	1.5055E+18
Cs-137	3.3221E+01	3.8193E-04	1.6789E+21	3.8814E+18

DW Transport Group Inventory:

Time (h) = 96.0000	Atmosphere	Sump
Noble gases (atoms)	2.5505E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3375E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.6928E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7246E-07
Total I (Ci)		2.5628E+03

DW to WW Transport Group Inventory:

Time (h) = 96.0000 Leakage Transport

Noble gases (atoms)	1.3317E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.2962E+00

WW to DW Transport Group Inventory:

Time (h) = 96.0000 Leakage Transport

Noble gases (atoms)	1.3321E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.3470E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3518E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2570E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2227E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3456E-05	4.9641E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3149E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9946E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 96.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3149E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	4.9946E-05

EAB Doses:

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Time (h) = 100.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5742E-06	9.7832E-03	3.1674E-04
Accumulated dose (rem)	9.1499E-03	5.0975E+00	1.7111E-01

LPZ Doses:

Time (h) = 100.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3476E-08	7.1853E-05	2.3515E-06
Accumulated dose (rem)	9.4977E-04	3.5897E-01	1.2378E-02

CR Doses:

Time (h) = 100.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2884E-07	8.6826E-04	2.7758E-05
Accumulated dose (rem)	7.5515E-04	2.4744E+00	7.9414E-02

DW Compartment Nuclide Inventory:

Time (h) = 100.0000	Ci	kg	Atoms	Decay
Rb-86	3.6613E-01	4.4997E-09	3.1509E+16	4.9725E+16
I-131	2.2535E+03	1.8177E-05	8.3562E+19	3.4625E+20
I-132	6.6845E-10	6.4759E-20	2.9544E+05	4.3074E+20
I-133	2.3871E+02	2.1073E-07	9.5415E+17	6.4644E+20
I-135	1.7637E-01	5.0221E-11	2.2403E+14	5.4983E+20
Xe-133	1.0153E+04	5.4241E-05	2.4560E+20	1.7570E+20
Xe-133m	3.3951E+02	7.7117E-07	3.4918E+18	8.9843E+18
Xe-135	1.1351E+02	4.4447E-08	1.9827E+17	3.7588E+20
Xe-135m	8.1813E-02	8.9872E-13	4.0091E+12	7.7866E+19
Cs-134	4.2578E+01	3.2909E-05	1.4790E+20	5.0210E+18
Cs-136	1.0461E+01	1.4273E-07	6.3201E+17	1.5111E+18
Cs-137	3.3174E+01	3.8139E-04	1.6765E+21	3.8990E+18

DW Transport Group Inventory:

Time (h) = 100.0000	Atmosphere	Sump
Noble gases (atoms)	2.4929E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3284E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.6449E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.6726E-07
Total I (Ci)		2.4924E+03

DW to WW Transport Group Inventory:

Time (h) = 100.0000 Leakage Transport

Noble gases (atoms)	1.3695E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.3610E+00

WW to DW Transport Group Inventory:

Time (h) = 100.0000 Leakage Transport

Noble gases (atoms)	1.3699E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.4118E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 100.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.3792E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.2617E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 100.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.2474E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 1.3487E-05 4.9756E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 100.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3819E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0061E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 100.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.3819E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0061E-05

EAB Doses:

Time (h) = 105.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.7436E-06	1.1547E-02	3.7401E-04
Accumulated dose (rem)	9.1576E-03	5.1091E+00	1.7148E-01

LPZ Doses:

Time (h) = 105.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6546E-08	8.4808E-05	2.7766E-06
Accumulated dose (rem)	9.4985E-04	3.5905E-01	1.2381E-02

CR Doses:

Time (h) = 105.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4251E-07	9.0965E-04	2.9098E-05
Accumulated dose (rem)	7.5539E-04	2.4754E+00	7.9444E-02

DW Compartment Nuclide Inventory:

Time (h) = 105.0000	Ci	kg	Atoms	Decay
Rb-86	3.6267E-01	4.4572E-09	3.1211E+16	4.9967E+16
I-131	2.2095E+03	1.7822E-05	8.1930E+19	3.4774E+20
I-132	1.4787E-10	1.4326E-20	6.5358E+04	4.3074E+20
I-133	2.0172E+02	1.7807E-07	8.0629E+17	6.4659E+20
I-135	1.0422E-01	2.9677E-11	1.3238E+14	5.4983E+20
Xe-133	9.8746E+03	5.2754E-05	2.3887E+20	1.8237E+20
Xe-133m	3.1806E+02	7.2245E-07	3.2712E+18	9.2032E+18
Xe-135	7.7433E+01	3.0322E-08	1.3526E+17	3.7594E+20
Xe-135m	4.8345E-02	5.3107E-13	2.3690E+12	7.7866E+19
Cs-134	4.2495E+01	3.2844E-05	1.4761E+20	5.0494E+18
Cs-136	1.0328E+01	1.4092E-07	6.2398E+17	1.5180E+18
Cs-137	3.3115E+01	3.8072E-04	1.6735E+21	3.9211E+18

DW Transport Group Inventory:

Time (h) = 105.0000	Atmosphere	Sump
Noble gases (atoms)	2.4227E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.3171E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.5870E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.6105E-07
Total I (Ci)		2.4113E+03

DW to WW Transport Group Inventory:

Time (h) = 105.0000 Leakage Transport

Noble gases (atoms)	1.4156E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.4418E+00

WW to DW Transport Group Inventory:

Time (h) = 105.0000 Leakage Transport

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Noble gases (atoms)	1.4160E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.4926E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 105.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4125E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2675E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 105.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.2775E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3525E-05	4.9898E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 105.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4635E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0204E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 105.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.4635E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0204E-05

EAB Doses:

Time (h) = 110.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3125E-06	1.0926E-02	3.5408E-04
Accumulated dose (rem)	9.1649E-03	5.1200E+00	1.7184E-01

LPZ Doses:

Time (h) = 110.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.1728E-08	8.0249E-05	2.6286E-06
Accumulated dose (rem)	9.4994E-04	3.5913E-01	1.2384E-02

CR Doses:

Time (h) = 110.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2070E-07	8.3234E-04	2.6638E-05
Accumulated dose (rem)	7.5561E-04	2.4762E+00	7.9470E-02

DW Compartment Nuclide Inventory:

Time (h) = 110.0000	Ci	kg	Atoms	Decay
Rb-86	3.5924E-01	4.4150E-09	3.0916E+16	5.0208E+16
I-131	2.1664E+03	1.7474E-05	8.0330E+19	3.4920E+20
I-132	3.2712E-11	3.1691E-21	1.4458E+04	4.3074E+20
I-133	1.7046E+02	1.5047E-07	6.8134E+17	6.4671E+20
I-135	6.1585E-02	1.7536E-11	7.8227E+13	5.4983E+20
Xe-133	9.6028E+03	5.1302E-05	2.3229E+20	1.8885E+20
Xe-133m	2.9793E+02	6.7673E-07	3.0642E+18	9.4082E+18
Xe-135	5.2820E+01	2.0684E-08	9.2266E+16	3.7598E+20
Xe-135m	2.8568E-02	3.1382E-13	1.3999E+12	7.7866E+19
Cs-134	4.2412E+01	3.2780E-05	1.4732E+20	5.0776E+18
Cs-136	1.0197E+01	1.3913E-07	6.1606E+17	1.5249E+18

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Cs-137 3.3057E+01 3.8004E-04 1.6706E+21 3.9431E+18

DW Transport Group Inventory:

Time (h) = 110.0000	Atmosphere	Sump	
Noble gases (atoms)	2.3545E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.3059E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.5312E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.5511E-07
Total I (Ci)			2.3369E+03

DW to WW Transport Group Inventory:

Time (h) = 110.0000 Leakage Transport

Noble gases (atoms)	1.4603E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.5224E+00

WW to DW Transport Group Inventory:

Time (h) = 110.0000 Leakage Transport

Noble gases (atoms)	1.4607E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.5732E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 110.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4449E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2734E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 110.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3068E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3564E-05	5.0040E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 110.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5428E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0347E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 110.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.5428E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0347E-05

EAB Doses:

Time (h) = 115.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9566E-06	1.0418E-02	3.3777E-04
Accumulated dose (rem)	9.1719E-03	5.1304E+00	1.7218E-01

LPZ Doses:

Time (h) = 115.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.7750E-08	7.6512E-05	2.5074E-06

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Accumulated dose (rem) 9.5001E-04 3.5921E-01 1.2386E-02

CR Doses:

Time (h) = 115.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0819E-07	7.8626E-04	2.5177E-05
Accumulated dose (rem)	7.5582E-04	2.4770E+00	7.9495E-02

DW Compartment Nuclide Inventory:

Time (h) = 115.0000	Ci	kg	Atoms	Decay
Rb-86	3.5584E-01	4.3733E-09	3.0624E+16	5.0446E+16
I-131	2.1241E+03	1.7133E-05	7.8762E+19	3.5062E+20
I-133	1.4404E+02	1.2716E-07	5.7575E+17	6.4682E+20
I-135	3.6392E-02	1.0363E-11	4.6226E+13	5.4983E+20
Xe-133	9.3376E+03	4.9885E-05	2.2588E+20	1.9516E+20
Xe-133m	2.7905E+02	6.3383E-07	2.8699E+18	9.6002E+18
Xe-135	3.6028E+01	1.4108E-08	6.2934E+16	3.7601E+20
Xe-135m	1.6881E-02	1.8544E-13	8.2723E+11	7.7866E+19
Cs-134	4.2330E+01	3.2716E-05	1.4703E+20	5.1058E+18
Cs-136	1.0067E+01	1.3736E-07	6.0823E+17	1.5316E+18
Cs-137	3.2998E+01	3.7937E-04	1.6676E+21	3.9651E+18

DW Transport Group Inventory:

Time (h) = 115.0000	Atmosphere	Sump
Noble gases (atoms)	2.2881E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2949E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.4774E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.4941E-07
Total I (Ci)		2.2681E+03

DW to WW Transport Group Inventory:

Time (h) = 115.0000 Leakage Transport

Noble gases (atoms)	1.5038E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.6028E+00

WW to DW Transport Group Inventory:

Time (h) = 115.0000 Leakage Transport

Noble gases (atoms)	1.5042E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.6535E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 115.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.4764E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.2792E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 115.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.3352E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.3602E-05 5.0182E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) = 115.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 3.6199E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 0.0000E+00 5.0489E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 115.0000		
Noble gases (atoms)	0.0000E+00	3.6199E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0489E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 120.0000			
Delta dose (rem)	6.6555E-06	9.9929E-03	3.2418E-04
Accumulated dose (rem)	9.1785E-03	5.1404E+00	1.7250E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 120.0000			
Delta dose (rem)	7.4385E-08	7.3393E-05	2.4065E-06
Accumulated dose (rem)	9.5009E-04	3.5928E-01	1.2389E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 120.0000			
Delta dose (rem)	1.9903E-07	7.5101E-04	2.4063E-05
Accumulated dose (rem)	7.5602E-04	2.4777E+00	7.9519E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 120.0000				
Rb-86	3.5248E-01	4.3319E-09	3.0334E+16	5.0682E+16
I-131	2.0826E+03	1.6798E-05	7.7223E+19	3.5202E+20
I-133	1.2172E+02	1.0745E-07	4.8653E+17	6.4690E+20
I-135	2.1505E-02	6.1234E-12	2.7316E+13	5.4983E+20
Xe-133	9.0789E+03	4.8503E-05	2.1962E+20	2.0129E+20
Xe-133m	2.6133E+02	5.9359E-07	2.6878E+18	9.7800E+18
Xe-135	2.4573E+01	9.6224E-09	4.2924E+16	3.7603E+20
Xe-135m	9.9755E-03	1.0958E-13	4.8882E+11	7.7866E+19
Cs-134	4.2247E+01	3.2653E-05	1.4675E+20	5.1340E+18
Cs-136	9.9393E+00	1.3561E-07	6.0051E+17	1.5383E+18
Cs-137	3.2940E+01	3.7870E-04	1.6646E+21	3.9871E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 120.0000		
Noble gases (atoms)	2.2235E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2839E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.4253E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.4394E-07
Total I (Ci)		2.2043E+03

DW to WW Transport Group Inventory:

Time (h) = 120.0000 Leakage Transport

Noble gases (atoms)	1.5461E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.6830E+00

WW to DW Transport Group Inventory:

Time (h) = 120.0000 Leakage Transport

Noble gases (atoms)	1.5465E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.7337E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 120.0000		

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Noble gases (atoms)	0.0000E+00	1.5069E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2850E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 120.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3629E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3640E-05	5.0323E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 120.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6948E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0631E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 120.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.6948E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0631E-05

EAB Doses:

Time (h) = 125.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3948E-06	9.6317E-03	3.1265E-04
Accumulated dose (rem)	9.1849E-03	5.1501E+00	1.7281E-01

LPZ Doses:

Time (h) = 125.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1471E-08	7.0741E-05	2.3207E-06
Accumulated dose (rem)	9.5016E-04	3.5935E-01	1.2391E-02

CR Doses:

Time (h) = 125.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9141E-07	7.2183E-04	2.3143E-05
Accumulated dose (rem)	7.5621E-04	2.4784E+00	7.9543E-02

DW Compartment Nuclide Inventory:

Time (h) = 125.0000	Ci	kg	Atoms	Decay
Rb-86	3.4915E-01	4.2910E-09	3.0047E+16	5.0915E+16
I-131	2.0419E+03	1.6470E-05	7.5715E+19	3.5340E+20
I-133	1.0286E+02	9.0799E-08	4.1113E+17	6.4698E+20
I-135	1.2707E-02	3.6185E-12	1.6141E+13	5.4983E+20
Xe-133	8.8266E+03	4.7155E-05	2.1352E+20	2.0725E+20
Xe-133m	2.4472E+02	5.5586E-07	2.5169E+18	9.9484E+18
Xe-135	1.6759E+01	6.5627E-09	2.9275E+16	3.7604E+20
Xe-135m	5.8947E-03	6.4753E-14	2.8885E+11	7.7866E+19
Cs-134	4.2165E+01	3.2589E-05	1.4646E+20	5.1621E+18
Cs-136	9.8131E+00	1.3389E-07	5.9288E+17	1.5448E+18
Cs-137	3.2881E+01	3.7802E-04	1.6617E+21	4.0090E+18

DW Transport Group Inventory:

Time (h) = 125.0000	Atmosphere	Sump
Noble gases (atoms)	2.1606E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2731E-04	4.5513E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	2.3747E-07
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	2.3867E-07
Total I (Ci)		2.1448E+03

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DW to WW Transport Group Inventory:

Time (h) = 125.0000 Leakage Transport

Noble gases (atoms)	1.5872E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.7629E+00

WW to DW Transport Group Inventory:

Time (h) = 125.0000 Leakage Transport

Noble gases (atoms)	1.5876E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.8137E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 125.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5367E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2908E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 125.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.3897E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3679E-05	5.0464E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 125.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7675E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0773E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 125.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.7675E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0773E-05

EAB Doses:

Time (h) = 130.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1644E-06	9.3189E-03	3.0267E-04
Accumulated dose (rem)	9.1911E-03	5.1594E+00	1.7312E-01

LPZ Doses:

Time (h) = 130.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8896E-08	6.8443E-05	2.2466E-06
Accumulated dose (rem)	9.5023E-04	3.5942E-01	1.2393E-02

CR Doses:

Time (h) = 130.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8468E-07	6.9692E-04	2.2359E-05
Accumulated dose (rem)	7.5640E-04	2.4791E+00	7.9565E-02

DW Compartment Nuclide Inventory:

Time (h) = 130.0000	Ci	kg	Atoms	Decay
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Rb-86	3.4584E-01	4.2504E-09	2.9763E+16	5.1147E+16
I-131	2.0020E+03	1.6149E-05	7.4237E+19	3.5474E+20
I-133	8.6918E+01	7.6728E-08	3.4742E+17	6.4704E+20
I-135	7.5091E-03	2.1382E-12	9.5382E+12	5.4983E+20
Xe-133	8.5808E+03	4.5842E-05	2.0757E+20	2.1304E+20
Xe-133m	2.2914E+02	5.2048E-07	2.3567E+18	1.0106E+19
Xe-135	1.1430E+01	4.4756E-09	1.9965E+16	3.7605E+20
Xe-135m	3.4833E-03	3.8264E-14	1.7069E+11	7.7866E+19
Cs-134	4.2082E+01	3.2525E-05	1.4617E+20	5.1901E+18
Cs-136	9.6884E+00	1.3219E-07	5.8535E+17	1.5513E+18
Cs-137	3.2823E+01	3.7735E-04	1.6587E+21	4.0309E+18

DW Transport Group Inventory:

Time (h) = 130.0000	Atmosphere	Sump	
Noble gases (atoms)	2.0995E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.2624E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.3257E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.3358E-07
Total I (Ci)			2.0890E+03

DW to WW Transport Group Inventory:

Time (h) = 130.0000 Leakage Transport

Noble gases (atoms)	1.6271E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.8427E+00

WW to DW Transport Group Inventory:

Time (h) = 130.0000 Leakage Transport

Noble gases (atoms)	1.6275E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.8935E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 130.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5655E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.2965E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 130.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4158E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3717E-05	5.0604E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 130.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8383E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0915E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 130.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.8383E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.0915E-05

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EAB Doses:

Time (h) = 135.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9571E-06	9.0430E-03	2.9389E-04
Accumulated dose (rem)	9.1971E-03	5.1684E+00	1.7341E-01

LPZ Doses:

Time (h) = 135.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6579E-08	6.6416E-05	2.1813E-06
Accumulated dose (rem)	9.5029E-04	3.5949E-01	1.2395E-02

CR Doses:

Time (h) = 135.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7855E-07	6.7518E-04	2.1677E-05
Accumulated dose (rem)	7.5657E-04	2.4798E+00	7.9587E-02

DW Compartment Nuclide Inventory:

Time (h) = 135.0000	Ci	kg	Atoms	Decay
Rb-86	3.4258E-01	4.2102E-09	2.9482E+16	5.1376E+16
I-131	1.9629E+03	1.5833E-05	7.2787E+19	3.5606E+20
I-133	7.3448E+01	6.4837E-08	2.9358E+17	6.4709E+20
I-135	4.4373E-03	1.2635E-12	5.6363E+12	5.4983E+20
Xe-133	8.3412E+03	4.4562E-05	2.0177E+20	2.1868E+20
Xe-133m	2.1454E+02	4.8732E-07	2.2065E+18	1.0254E+19
Xe-135	7.7945E+00	3.0522E-09	1.3615E+16	3.7606E+20
Xe-135m	2.0583E-03	2.2611E-14	1.0086E+11	7.7866E+19
Cs-134	4.2000E+01	3.2462E-05	1.4589E+20	5.2181E+18
Cs-136	9.5653E+00	1.3051E-07	5.7791E+17	1.5577E+18
Cs-137	3.2765E+01	3.7669E-04	1.6558E+21	4.0527E+18

DW Transport Group Inventory:

Time (h) = 135.0000	Atmosphere	Sump
Noble gases (atoms)	2.0399E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2518E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.2780E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.2866E-07
Total I (Ci)		2.0364E+03

DW to WW Transport Group Inventory:

Time (h) = 135.0000 Leakage Transport

Noble gases (atoms)	1.6659E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.9223E+00

WW to DW Transport Group Inventory:

Time (h) = 135.0000 Leakage Transport

Noble gases (atoms)	1.6663E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	3.9730E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 135.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5936E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3023E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 135.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4412E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3755E-05	5.0744E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 135.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9070E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1056E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 135.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9070E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1056E-05

EAB Doses:

Time (h) = 140.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7676E-06	8.7955E-03	2.8602E-04
Accumulated dose (rem)	9.2028E-03	5.1772E+00	1.7370E-01

LPZ Doses:

Time (h) = 140.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4461E-08	6.4599E-05	2.1228E-06
Accumulated dose (rem)	9.5036E-04	3.5955E-01	1.2398E-02

CR Doses:

Time (h) = 140.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7286E-07	6.5589E-04	2.1072E-05
Accumulated dose (rem)	7.5675E-04	2.4805E+00	7.9608E-02

DW Compartment Nuclide Inventory:

Time (h) = 140.0000	Ci	kg	Atoms	Decay
Rb-86	3.3934E-01	4.1704E-09	2.9203E+16	5.1603E+16
I-131	1.9246E+03	1.5524E-05	7.1366E+19	3.5736E+20
I-133	6.2066E+01	5.4790E-08	2.4808E+17	6.4714E+20
I-135	2.6221E-03	7.4663E-13	3.3306E+12	5.4983E+20
Xe-133	8.1079E+03	4.3315E-05	1.9613E+20	2.2415E+20
Xe-133m	2.0086E+02	4.5624E-07	2.0658E+18	1.0392E+19
Xe-135	5.3154E+00	2.0814E-09	9.2849E+15	3.7606E+20
Xe-135m	1.2163E-03	1.3361E-14	5.9602E+10	7.7866E+19
Cs-134	4.1918E+01	3.2399E-05	1.4560E+20	5.2461E+18
Cs-136	9.4438E+00	1.2885E-07	5.7057E+17	1.5641E+18
Cs-137	3.2707E+01	3.7602E-04	1.6529E+21	4.0745E+18

DW Transport Group Inventory:

Time (h) = 140.0000	Atmosphere	Sump
Noble gases (atoms)	1.9820E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2413E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.2316E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.2388E-07
Total I (Ci)		1.9867E+03

DW to WW Transport Group Inventory:

Time (h) = 140.0000 Leakage Transport

Noble gases (atoms)	1.7036E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.0016E+00

WW to DW Transport Group Inventory:

Time (h) = 140.0000 Leakage Transport

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Noble gases (atoms)	1.7039E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.0524E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 140.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6208E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3080E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 140.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4658E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3793E-05	5.0884E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 140.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9738E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1196E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 140.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	3.9738E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1196E-05

EAB Doses:

Time (h) = 145.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5923E-06	8.5702E-03	2.7887E-04
Accumulated dose (rem)	9.2084E-03	5.1858E+00	1.7397E-01

LPZ Doses:

Time (h) = 145.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.2502E-08	6.2944E-05	2.0696E-06
Accumulated dose (rem)	9.5042E-04	3.5962E-01	1.2400E-02

CR Doses:

Time (h) = 145.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6752E-07	6.3847E-04	2.0527E-05
Accumulated dose (rem)	7.5692E-04	2.4811E+00	7.9628E-02

DW Compartment Nuclide Inventory:

Time (h) = 145.0000	Ci	kg	Atoms	Decay
Rb-86	3.3613E-01	4.1310E-09	2.8927E+16	5.1828E+16
I-131	1.8870E+03	1.5221E-05	6.9972E+19	3.5863E+20
I-133	5.2448E+01	4.6299E-08	2.0964E+17	6.4718E+20
I-135	1.5494E-03	4.4120E-13	1.9681E+12	5.4983E+20
Xe-133	7.8806E+03	4.2101E-05	1.9063E+20	2.2947E+20
Xe-133m	1.8804E+02	4.2712E-07	1.9340E+18	1.0521E+19
Xe-135	3.6247E+00	1.4194E-09	6.3315E+15	3.7607E+20
Xe-135m	7.1874E-04	7.8954E-15	3.5220E+10	7.7866E+19
Cs-134	4.1837E+01	3.2335E-05	1.4532E+20	5.2740E+18
Cs-136	9.3239E+00	1.2722E-07	5.6332E+17	1.5703E+18
Cs-137	3.2649E+01	3.7535E-04	1.6499E+21	4.0963E+18

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DW Transport Group Inventory:

Time (h) = 145.0000	Atmosphere	Sump
Noble gases (atoms)	1.9257E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2309E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.1864E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.1925E-07
Total I (Ci)		1.9395E+03

DW to WW Transport Group Inventory:

Time (h) = 145.0000 Leakage Transport

Noble gases (atoms)	1.7402E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.0808E+00

WW to DW Transport Group Inventory:

Time (h) = 145.0000 Leakage Transport

Noble gases (atoms)	1.7406E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.1316E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 145.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6473E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3138E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 145.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.4897E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3830E-05	5.1024E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 145.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0386E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1336E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 145.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.0386E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1336E-05

EAB Doses:

Time (h) = 150.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4283E-06	8.3623E-03	2.7228E-04
Accumulated dose (rem)	9.2138E-03	5.1941E+00	1.7425E-01

LPZ Doses:

Time (h) = 150.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.0669E-08	6.1417E-05	2.0206E-06
Accumulated dose (rem)	9.5048E-04	3.5968E-01	1.2402E-02

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CR Doses:

Time (h) = 150.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6246E-07	6.2252E-04	2.0028E-05
Accumulated dose (rem)	7.5708E-04	2.4817E+00	7.9648E-02

DW Compartment Nuclide Inventory:

Time (h) = 150.0000	Ci	kg	Atoms	Decay
Rb-86	3.3295E-01	4.0919E-09	2.8654E+16	5.2051E+16
I-131	1.8502E+03	1.4924E-05	6.8606E+19	3.5987E+20
I-133	4.4320E+01	3.9124E-08	1.7715E+17	6.4721E+20
I-135	9.1558E-04	2.6071E-13	1.1630E+12	5.4983E+20
Xe-133	7.6593E+03	4.0919E-05	1.8528E+20	2.3465E+20
Xe-133m	1.7603E+02	3.9983E-07	1.8104E+18	1.0643E+19
Xe-135	2.4717E+00	9.6787E-10	4.3175E+15	3.7607E+20
Xe-135m	4.2472E-04	4.6655E-15	2.0812E+10	7.7866E+19
Cs-134	4.1755E+01	3.2272E-05	1.4504E+20	5.3018E+18
Cs-136	9.2054E+00	1.2560E-07	5.5617E+17	1.5765E+18
Cs-137	3.2591E+01	3.7469E-04	1.6470E+21	4.1180E+18

DW Transport Group Inventory:

Time (h) = 150.0000	Atmosphere	Sump
Noble gases (atoms)	1.8709E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2205E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.1424E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.1475E-07
Total I (Ci)		1.8945E+03

DW to WW Transport Group Inventory:

Time (h) = 150.0000 Leakage Transport

Noble gases (atoms)	1.7757E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.1598E+00

WW to DW Transport Group Inventory:

Time (h) = 150.0000 Leakage Transport

Noble gases (atoms)	1.7761E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.2106E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 150.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6731E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3195E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 150.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5130E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3868E-05	5.1163E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 150.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1017E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1476E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 150.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1017E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1476E-05

EAB Doses:

Time (h) = 155.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2737E-06	8.1682E-03	2.6614E-04
Accumulated dose (rem)	9.2191E-03	5.2023E+00	1.7451E-01

LPZ Doses:

Time (h) = 155.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8942E-08	5.9992E-05	1.9749E-06
Accumulated dose (rem)	9.5054E-04	3.5974E-01	1.2404E-02

CR Doses:

Time (h) = 155.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5763E-07	6.0773E-04	1.9567E-05
Accumulated dose (rem)	7.5724E-04	2.4823E+00	7.9668E-02

DW Compartment Nuclide Inventory:

Time (h) = 155.0000	Ci	kg	Atoms	Decay
Rb-86	3.2980E-01	4.0533E-09	2.8383E+16	5.2271E+16
I-131	1.8141E+03	1.4632E-05	6.7266E+19	3.6109E+20
I-133	3.7452E+01	3.3061E-08	1.4970E+17	6.4724E+20
I-135	5.4103E-04	1.5406E-13	6.8723E+11	5.4983E+20
Xe-133	7.4439E+03	3.9768E-05	1.8007E+20	2.3967E+20
Xe-133m	1.6477E+02	3.7427E-07	1.6947E+18	1.0756E+19
Xe-135	1.6854E+00	6.5998E-10	2.9440E+15	3.7607E+20
Xe-135m	2.5097E-04	2.7569E-15	1.2298E+10	7.7866E+19
Cs-134	4.1674E+01	3.2209E-05	1.4475E+20	5.3296E+18
Cs-136	9.0885E+00	1.2401E-07	5.4910E+17	1.5826E+18
Cs-137	3.2533E+01	3.7402E-04	1.6441E+21	4.1397E+18

DW Transport Group Inventory:

Time (h) = 155.0000	Atmosphere	Sump
Noble gases (atoms)	1.8177E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2103E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.0994E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.1037E-07
Total I (Ci)		1.8515E+03

DW to WW Transport Group Inventory:

Time (h) = 155.0000 Leakage Transport

Noble gases (atoms)	1.8103E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.2386E+00

WW to DW Transport Group Inventory:

Time (h) = 155.0000 Leakage Transport

Noble gases (atoms)	1.8107E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.2893E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 155.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6981E+19

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3252E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 155.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5356E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3906E-05	5.1302E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 155.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1629E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1616E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 155.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.1629E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1616E-05

EAB Doses:

Time (h) = 160.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1271E-06	7.9853E-03	2.6036E-04
Accumulated dose (rem)	9.2242E-03	5.2103E+00	1.7477E-01

LPZ Doses:

Time (h) = 160.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7303E-08	5.8648E-05	1.9318E-06
Accumulated dose (rem)	9.5060E-04	3.5980E-01	1.2406E-02

CR Doses:

Time (h) = 160.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5301E-07	5.9386E-04	1.9134E-05
Accumulated dose (rem)	7.5739E-04	2.4829E+00	7.9687E-02

DW Compartment Nuclide Inventory:

Time (h) = 160.0000	Ci	kg	Atoms	Decay
Rb-86	3.2668E-01	4.0149E-09	2.8114E+16	5.2490E+16
I-131	1.7786E+03	1.4347E-05	6.5952E+19	3.6229E+20
I-133	3.1648E+01	2.7938E-08	1.2650E+17	6.4726E+20
I-135	3.1971E-04	9.1036E-14	4.0610E+11	5.4983E+20
Xe-133	7.2343E+03	3.8648E-05	1.7500E+20	2.4456E+20
Xe-133m	1.5423E+02	3.5033E-07	1.5863E+18	1.0862E+19
Xe-135	1.1492E+00	4.5002E-10	2.0075E+15	3.7607E+20
Xe-135m	1.4830E-04	1.6291E-15	7.2673E+09	7.7866E+19
Cs-134	4.1592E+01	3.2147E-05	1.4447E+20	5.3573E+18
Cs-136	8.9731E+00	1.2243E-07	5.4213E+17	1.5886E+18
Cs-137	3.2476E+01	3.7336E-04	1.6412E+21	4.1613E+18

DW Transport Group Inventory:

Time (h) = 160.0000	Atmosphere	Sump
Noble gases (atoms)	1.7659E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.2001E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.0574E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.0611E-07
Total I (Ci)		1.8103E+03

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DW to WW Transport Group Inventory:

Time (h) = 160.0000 Leakage Transport

Noble gases (atoms)	1.8439E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.3172E+00

WW to DW Transport Group Inventory:

Time (h) = 160.0000 Leakage Transport

Noble gases (atoms)	1.8443E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.3679E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 160.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7224E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3309E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 160.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5575E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3943E-05	5.1440E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 160.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2224E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1755E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 160.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2224E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1755E-05

EAB Doses:

Time (h) = 165.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.9872E-06	7.8115E-03	2.5487E-04
Accumulated dose (rem)	9.2292E-03	5.2181E+00	1.7503E-01

LPZ Doses:

Time (h) = 165.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5739E-08	5.7372E-05	1.8910E-06
Accumulated dose (rem)	9.5065E-04	3.5985E-01	1.2407E-02

CR Doses:

Time (h) = 165.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4856E-07	5.8075E-04	1.8726E-05
Accumulated dose (rem)	7.5754E-04	2.4835E+00	7.9706E-02

DW Compartment Nuclide Inventory:

Time (h) = 165.0000	Ci	kg	Atoms	Decay
Rb-86	3.2360E-01	3.9770E-09	2.7849E+16	5.2706E+16

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I-131	1.7439E+03	1.4067E-05	6.4664E+19	3.6346E+20
I-133	2.6743E+01	2.3608E-08	1.0690E+17	6.4728E+20
I-135	1.8892E-04	5.3795E-14	2.3997E+11	5.4983E+20
Xe-133	7.0303E+03	3.7559E-05	1.7006E+20	2.4931E+20
Xe-133m	1.4436E+02	3.2791E-07	1.4847E+18	1.0962E+19
Xe-135	7.8362E-01	3.0685E-10	1.3688E+15	3.7607E+20
Xe-135m	8.7636E-05	9.6268E-16	4.2944E+09	7.7866E+19
Cs-134	4.1511E+01	3.2084E-05	1.4419E+20	5.3850E+18
Cs-136	8.8591E+00	1.2088E-07	5.3524E+17	1.5945E+18
Cs-137	3.2418E+01	3.7270E-04	1.6383E+21	4.1829E+18

DW Transport Group Inventory:

Time (h) = 165.0000	Atmosphere	Sump
Noble gases (atoms)	1.7155E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.1900E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.0164E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.0195E-07
Total I (Ci)		1.7706E+03

DW to WW Transport Group Inventory:

Time (h) = 165.0000 Leakage Transport

Noble gases (atoms)	1.8765E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.3956E+00

WW to DW Transport Group Inventory:

Time (h) = 165.0000 Leakage Transport

Noble gases (atoms)	1.8769E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.4463E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 165.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7460E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3365E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 165.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5789E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.3981E-05	5.1578E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 165.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2802E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1894E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 165.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.2802E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.1894E-05

EAB Doses:

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Time (h) = 170.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8532E-06	7.6454E-03	2.4962E-04
Accumulated dose (rem)	9.2341E-03	5.2258E+00	1.7528E-01

LPZ Doses:

Time (h) = 170.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4241E-08	5.6152E-05	1.8520E-06
Accumulated dose (rem)	9.5071E-04	3.5991E-01	1.2409E-02

CR Doses:

Time (h) = 170.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4427E-07	5.6825E-04	1.8337E-05
Accumulated dose (rem)	7.5768E-04	2.4841E+00	7.9724E-02

DW Compartment Nuclide Inventory:

Time (h) = 170.0000	Ci	kg	Atoms	Decay
Rb-86	3.2054E-01	3.9394E-09	2.7585E+16	5.2921E+16
I-131	1.7098E+03	1.3792E-05	6.3402E+19	3.6461E+20
I-133	2.2599E+01	1.9950E-08	9.0330E+16	6.4730E+20
I-135	1.1164E-04	3.1788E-14	1.4180E+11	5.4983E+20
Xe-133	6.8318E+03	3.6498E-05	1.6526E+20	2.5392E+20
Xe-133m	1.3512E+02	3.0691E-07	1.3896E+18	1.1055E+19
Xe-135	5.3431E-01	2.0923E-10	9.3334E+14	3.7607E+20
Xe-135m	5.1785E-05	5.6887E-16	2.5376E+09	7.7866E+19
Cs-134	4.1430E+01	3.2021E-05	1.4391E+20	5.4126E+18
Cs-136	8.7466E+00	1.1934E-07	5.2844E+17	1.6004E+18
Cs-137	3.2361E+01	3.7204E-04	1.6354E+21	4.2045E+18

DW Transport Group Inventory:

Time (h) = 170.0000	Atmosphere	Sump	
Noble gases (atoms)	1.6665E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.1799E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.9763E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9790E-07
Total I (Ci)			1.7324E+03

DW to WW Transport Group Inventory:

Time (h) = 170.0000 Leakage Transport

Noble gases (atoms)	1.9082E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.4738E+00

WW to DW Transport Group Inventory:

Time (h) = 170.0000 Leakage Transport

Noble gases (atoms)	1.9086E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.5246E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 170.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7689E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3422E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 170.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.5996E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 1.4018E-05 5.1716E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 170.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3363E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2033E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 170.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3363E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2033E-05

EAB Doses:

Time (h) = 175.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7244E-06	7.4856E-03	2.4459E-04
Accumulated dose (rem)	9.2388E-03	5.2332E+00	1.7552E-01

LPZ Doses:

Time (h) = 175.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2803E-08	5.4979E-05	1.8145E-06
Accumulated dose (rem)	9.5076E-04	3.5996E-01	1.2411E-02

CR Doses:

Time (h) = 175.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4012E-07	5.5627E-04	1.7965E-05
Accumulated dose (rem)	7.5782E-04	2.4846E+00	7.9742E-02

DW Compartment Nuclide Inventory:

Time (h) = 175.0000	Ci	kg	Atoms	Decay
Rb-86	3.1751E-01	3.9021E-09	2.7325E+16	5.3133E+16
I-131	1.6764E+03	1.3522E-05	6.2164E+19	3.6574E+20
I-133	1.9097E+01	1.6858E-08	7.6332E+16	6.4731E+20
I-135	6.5968E-05	1.8784E-14	8.3794E+10	5.4983E+20
Xe-133	6.6387E+03	3.5466E-05	1.6059E+20	2.5841E+20
Xe-133m	1.2646E+02	2.8724E-07	1.3006E+18	1.1142E+19
Xe-135	3.6432E-01	1.4266E-10	6.3639E+14	3.7607E+20
Xe-135m	3.0601E-05	3.3615E-16	1.4995E+09	7.7866E+19
Cs-134	4.1349E+01	3.1959E-05	1.4363E+20	5.4401E+18
Cs-136	8.6355E+00	1.1782E-07	5.2173E+17	1.6062E+18
Cs-137	3.2303E+01	3.7138E-04	1.6325E+21	4.2260E+18

DW Transport Group Inventory:

Time (h) = 175.0000	Atmosphere	Sump	
Noble gases (atoms)	1.6189E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.1700E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.9371E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9394E-07
Total I (Ci)			1.6955E+03

DW to WW Transport Group Inventory:

Time (h) = 175.0000 Leakage Transport

Noble gases (atoms)	1.9390E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.5518E+00

WW to DW Transport Group Inventory:

Time (h) = 175.0000 Leakage Transport

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Noble gases (atoms)	1.9394E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.6026E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 175.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7912E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3478E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 175.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6197E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4055E-05	5.1854E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 175.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3909E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2171E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 175.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.3909E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2171E-05

EAB Doses:

Time (h) = 180.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6004E-06	7.3315E-03	2.3973E-04
Accumulated dose (rem)	9.2434E-03	5.2406E+00	1.7576E-01

LPZ Doses:

Time (h) = 180.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1417E-08	5.3846E-05	1.7783E-06
Accumulated dose (rem)	9.5081E-04	3.6002E-01	1.2413E-02

CR Doses:

Time (h) = 180.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3611E-07	5.4473E-04	1.7606E-05
Accumulated dose (rem)	7.5796E-04	2.4852E+00	7.9760E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	3.1450E-01	3.8652E-09	2.7066E+16	5.3344E+16
I-131	1.6437E+03	1.3258E-05	6.0950E+19	3.6684E+20
I-133	1.6137E+01	1.4245E-08	6.4503E+16	6.4732E+20
I-135	3.8982E-05	1.1100E-14	4.9516E+10	5.4983E+20
Xe-133	6.4508E+03	3.4463E-05	1.5605E+20	2.6277E+20
Xe-133m	1.1835E+02	2.6883E-07	1.2172E+18	1.1223E+19
Xe-135	2.4841E-01	9.7273E-11	4.3392E+14	3.7607E+20
Xe-135m	1.8083E-05	1.9864E-16	8.8610E+08	7.7866E+19
Cs-134	4.1269E+01	3.1897E-05	1.4335E+20	5.4676E+18
Cs-136	8.5258E+00	1.1633E-07	5.1510E+17	1.6119E+18
Cs-137	3.2246E+01	3.7072E-04	1.6296E+21	4.2475E+18

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DW Transport Group Inventory:

Time (h) = 180.0000	Atmosphere	Sump	
Noble gases (atoms)	1.5726E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.1601E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.8988E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.9007E-07
Total I (Ci)			1.6598E+03

DW to WW Transport Group Inventory:

Time (h) = 180.0000 Leakage Transport

Noble gases (atoms)	1.9689E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.6297E+00

WW to DW Transport Group Inventory:

Time (h) = 180.0000 Leakage Transport

Noble gases (atoms)	1.9693E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.6804E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 180.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8128E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3535E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 180.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6392E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4092E-05	5.1991E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 180.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4439E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2309E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 180.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4439E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2309E-05

EAB Doses:

Time (h) = 185.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4808E-06	7.1822E-03	2.3503E-04
Accumulated dose (rem)	9.2479E-03	5.2478E+00	1.7600E-01

LPZ Doses:

Time (h) = 185.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0079E-08	5.2750E-05	1.7433E-06
Accumulated dose (rem)	9.5086E-04	3.6007E-01	1.2415E-02

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CR Doses:

Time (h) = 185.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3223E-07	5.3358E-04	1.7260E-05
Accumulated dose (rem)	7.5809E-04	2.4857E+00	7.9777E-02

DW Compartment Nuclide Inventory:

Time (h) = 185.0000	Ci	kg	Atoms	Decay
Rb-86	3.1153E-01	3.8287E-09	2.6810E+16	5.3552E+16
I-131	1.6116E+03	1.3000E-05	5.9759E+19	3.6793E+20
I-133	1.3637E+01	1.2038E-08	5.4507E+16	6.4733E+20
I-135	2.3035E-05	6.5592E-15	2.9260E+10	5.4983E+20
Xe-133	6.2681E+03	3.3487E-05	1.5163E+20	2.6700E+20
Xe-133m	1.1076E+02	2.5159E-07	1.1392E+18	1.1299E+19
Xe-135	1.6937E-01	6.6324E-11	2.9586E+14	3.7607E+20
Xe-135m	1.0685E-05	1.1738E-16	5.2361E+08	7.7866E+19
Cs-134	4.1188E+01	3.1834E-05	1.4307E+20	5.4951E+18
Cs-136	8.4175E+00	1.1485E-07	5.0856E+17	1.6175E+18
Cs-137	3.2189E+01	3.7006E-04	1.6267E+21	4.2690E+18

DW Transport Group Inventory:

Time (h) = 185.0000	Atmosphere	Sump	
Noble gases (atoms)	1.5276E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.1503E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.8613E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.8629E-07
Total I (Ci)			1.6252E+03

DW to WW Transport Group Inventory:

Time (h) = 185.0000 Leakage Transport

Noble gases (atoms)	1.9979E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.7074E+00

WW to DW Transport Group Inventory:

Time (h) = 185.0000 Leakage Transport

Noble gases (atoms)	1.9983E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.7581E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 185.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8338E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3591E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 185.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6582E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4130E-05	5.2128E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 185.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4953E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2447E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 185.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.4953E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2447E-05

EAB Doses:

Time (h) = 190.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3651E-06	7.0372E-03	2.3046E-04
Accumulated dose (rem)	9.2523E-03	5.2548E+00	1.7623E-01

LPZ Doses:

Time (h) = 190.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8786E-08	5.1685E-05	1.7094E-06
Accumulated dose (rem)	9.5091E-04	3.6012E-01	1.2416E-02

CR Doses:

Time (h) = 190.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2846E-07	5.2276E-04	1.6924E-05
Accumulated dose (rem)	7.5822E-04	2.4862E+00	7.9794E-02

DW Compartment Nuclide Inventory:

Time (h) = 190.0000	Ci	kg	Atoms	Decay
Rb-86	3.0859E-01	3.7925E-09	2.6557E+16	5.3759E+16
I-131	1.5801E+03	1.2746E-05	5.8592E+19	3.6899E+20
I-133	1.1523E+01	1.0172E-08	4.6060E+16	6.4734E+20
I-135	1.3612E-05	3.8760E-15	1.7290E+10	5.4983E+20
Xe-133	6.0904E+03	3.2537E-05	1.4733E+20	2.7111E+20
Xe-133m	1.0366E+02	2.3545E-07	1.0661E+18	1.1371E+19
Xe-135	1.1548E-01	4.5221E-11	2.0173E+14	3.7607E+20
Xe-135m	6.3142E-06	6.9362E-17	3.0941E+08	7.7866E+19
Cs-134	4.1108E+01	3.1772E-05	1.4279E+20	5.5225E+18
Cs-136	8.3105E+00	1.1339E-07	5.0210E+17	1.6231E+18
Cs-137	3.2132E+01	3.6941E-04	1.6238E+21	4.2904E+18

DW Transport Group Inventory:

Time (h) = 190.0000	Atmosphere	Sump
Noble gases (atoms)	1.4839E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.1405E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.8246E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.8260E-07
Total I (Ci)		1.5917E+03

DW to WW Transport Group Inventory:

Time (h) = 190.0000 Leakage Transport

Noble gases (atoms)	2.0261E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.7848E+00

WW to DW Transport Group Inventory:

Time (h) = 190.0000 Leakage Transport

Noble gases (atoms)	2.0265E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.8356E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 190.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8542E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3647E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 190.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6767E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4167E-05	5.2264E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 190.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5453E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2584E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 190.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5453E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2584E-05

EAB Doses:

Time (h) = 195.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2531E-06	6.8961E-03	2.2602E-04
Accumulated dose (rem)	9.2565E-03	5.2617E+00	1.7645E-01

LPZ Doses:

Time (h) = 195.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7535E-08	5.0649E-05	1.6763E-06
Accumulated dose (rem)	9.5096E-04	3.6017E-01	1.2418E-02

CR Doses:

Time (h) = 195.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2481E-07	5.1225E-04	1.6598E-05
Accumulated dose (rem)	7.5834E-04	2.4868E+00	7.9810E-02

DW Compartment Nuclide Inventory:

Time (h) = 195.0000	Ci	kg	Atoms	Decay
Rb-86	3.0567E-01	3.7566E-09	2.6306E+16	5.3963E+16
I-131	1.5493E+03	1.2497E-05	5.7448E+19	3.7003E+20
I-133	9.7376E+00	8.5960E-09	3.8922E+16	6.4735E+20
I-135	8.0435E-06	2.2904E-15	1.0217E+10	5.4983E+20
Xe-133	5.9176E+03	3.1614E-05	1.4315E+20	2.7511E+20
Xe-133m	9.7008E+01	2.2035E-07	9.9771E+17	1.1438E+19
Xe-135	7.8739E-02	3.0833E-11	1.3754E+14	3.7607E+20
Xe-135m	3.7312E-06	4.0987E-17	1.8284E+08	7.7866E+19
Cs-134	4.1028E+01	3.1710E-05	1.4251E+20	5.5498E+18
Cs-136	8.2050E+00	1.1195E-07	4.9572E+17	1.6286E+18
Cs-137	3.2075E+01	3.6875E-04	1.6209E+21	4.3118E+18

DW Transport Group Inventory:

Time (h) = 195.0000	Atmosphere	Sump
Noble gases (atoms)	1.4414E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.1308E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.7887E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7898E-07
Total I (Ci)		1.5590E+03

DW to WW Transport Group Inventory:

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Time (h) = 195.0000 Leakage Transport

Noble gases (atoms)	2.0536E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.8621E+00

WW to DW Transport Group Inventory:

Time (h) = 195.0000 Leakage Transport

Noble gases (atoms)	2.0539E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.9129E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 195.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8740E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3703E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 195.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.6946E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4203E-05	5.2400E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 195.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5939E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2721E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 195.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.5939E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2721E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 200.0000			
Delta dose (rem)	4.1446E-06	6.7587E-03	2.2170E-04
Accumulated dose (rem)	9.2607E-03	5.2684E+00	1.7668E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 200.0000			
Delta dose (rem)	4.6322E-08	4.9639E-05	1.6442E-06
Accumulated dose (rem)	9.5101E-04	3.6022E-01	1.2420E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 200.0000			
Delta dose (rem)	1.2127E-07	5.0202E-04	1.6281E-05
Accumulated dose (rem)	7.5846E-04	2.4873E+00	7.9827E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 200.0000				
Rb-86	3.0278E-01	3.7211E-09	2.6057E+16	5.4166E+16
I-131	1.5190E+03	1.2253E-05	5.6326E+19	3.7105E+20

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I-133	8.2286E+00	7.2639E-09	3.2890E+16	6.4735E+20
I-135	4.7530E-06	1.3534E-15	6.0374E+09	5.4983E+20
Xe-133	5.7496E+03	3.0716E-05	1.3908E+20	2.7900E+20
Xe-133m	9.0782E+01	2.0620E-07	9.3367E+17	1.1500E+19
Xe-135	5.3686E-02	2.1022E-11	9.3778E+13	3.7607E+20
Xe-135m	2.2048E-06	2.4220E-17	1.0804E+08	7.7866E+19
Cs-134	4.0948E+01	3.1649E-05	1.4223E+20	5.5771E+18
Cs-136	8.1008E+00	1.1053E-07	4.8943E+17	1.6340E+18
Cs-137	3.2018E+01	3.6810E-04	1.6181E+21	4.3331E+18

DW Transport Group Inventory:

Time (h) = 200.0000	Atmosphere	Sump	
Noble gases (atoms)	1.4002E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.1212E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.7535E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.7545E-07
Total I (Ci)			1.5273E+03

DW to WW Transport Group Inventory:

Time (h) = 200.0000 Leakage Transport

Noble gases (atoms)	2.0802E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.9393E+00

WW to DW Transport Group Inventory:

Time (h) = 200.0000 Leakage Transport

Noble gases (atoms)	2.0806E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	4.9900E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 200.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8933E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3759E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 200.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7120E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4240E-05	5.2536E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 200.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6411E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2857E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 200.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6411E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2857E-05

EAB Doses:

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Time (h) = 205.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0394E-06	6.6246E-03	2.1748E-04
Accumulated dose (rem)	9.2647E-03	5.2751E+00	1.7689E-01

LPZ Doses:

Time (h) = 205.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5146E-08	4.8654E-05	1.6128E-06
Accumulated dose (rem)	9.5105E-04	3.6027E-01	1.2421E-02

CR Doses:

Time (h) = 205.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1783E-07	4.9203E-04	1.5971E-05
Accumulated dose (rem)	7.5858E-04	2.4877E+00	7.9843E-02

DW Compartment Nuclide Inventory:

Time (h) = 205.0000	Ci	kg	Atoms	Decay
Rb-86	2.9992E-01	3.6859E-09	2.5811E+16	5.4366E+16
I-131	1.4894E+03	1.2013E-05	5.5226E+19	3.7205E+20
I-133	6.9534E+00	6.1382E-09	2.7793E+16	6.4736E+20
I-135	2.8087E-06	7.9976E-16	3.5676E+09	5.4983E+20
Xe-133	5.5862E+03	2.9844E-05	1.3513E+20	2.8277E+20
Xe-133m	8.4954E+01	1.9296E-07	8.7373E+17	1.1559E+19
Xe-135	3.6604E-02	1.4333E-11	6.3939E+13	3.7607E+20
Xe-135m	1.3029E-06	1.4312E-17	6.3844E+07	7.7866E+19
Cs-134	4.0868E+01	3.1587E-05	1.4196E+20	5.6044E+18
Cs-136	7.9979E+00	1.0912E-07	4.8321E+17	1.6394E+18
Cs-137	3.1961E+01	3.6745E-04	1.6152E+21	4.3544E+18

DW Transport Group Inventory:

Time (h) = 205.0000	Atmosphere	Sump
Noble gases (atoms)	1.3600E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.1117E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.7190E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.7199E-07
Total I (Ci)		1.4963E+03

DW to WW Transport Group Inventory:

Time (h) = 205.0000 Leakage Transport

Noble gases (atoms)	2.1060E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.0162E+00

WW to DW Transport Group Inventory:

Time (h) = 205.0000 Leakage Transport

Noble gases (atoms)	2.1064E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.0670E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 205.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.9120E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.3814E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 205.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.7289E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.4277E-05 5.2672E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 205.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6869E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2994E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 205.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.6869E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.2994E-05

EAB Doses:

Time (h) = 210.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9374E-06	6.4935E-03	2.1336E-04
Accumulated dose (rem)	9.2686E-03	5.2816E+00	1.7711E-01

LPZ Doses:

Time (h) = 210.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4006E-08	4.7692E-05	1.5821E-06
Accumulated dose (rem)	9.5109E-04	3.6032E-01	1.2423E-02

CR Doses:

Time (h) = 210.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1449E-07	4.8229E-04	1.5669E-05
Accumulated dose (rem)	7.5870E-04	2.4882E+00	7.9858E-02

DW Compartment Nuclide Inventory:

Time (h) = 210.0000	Ci	kg	Atoms	Decay
Rb-86	2.9708E-01	3.6511E-09	2.5567E+16	5.4565E+16
I-131	1.4603E+03	1.1779E-05	5.4148E+19	3.7304E+20
I-133	5.8758E+00	5.1870E-09	2.3486E+16	6.4736E+20
I-135	1.6597E-06	4.7260E-16	2.1082E+09	5.4983E+20
Xe-133	5.4273E+03	2.8995E-05	1.3129E+20	2.8644E+20
Xe-133m	7.9498E+01	1.8057E-07	8.1762E+17	1.1613E+19
Xe-135	2.4957E-02	9.7727E-12	4.3595E+13	3.7607E+20
Xe-135m	7.6989E-07	8.4573E-18	3.7726E+07	7.7866E+19
Cs-134	4.0788E+01	3.1525E-05	1.4168E+20	5.6316E+18
Cs-136	7.8963E+00	1.0774E-07	4.7707E+17	1.6447E+18
Cs-137	3.1905E+01	3.6680E-04	1.6123E+21	4.3757E+18

DW Transport Group Inventory:

Time (h) = 210.0000	Atmosphere	Sump	
Noble gases (atoms)	1.3210E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.1022E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.6853E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.6860E-07
Total I (Ci)			1.4662E+03

DW to WW Transport Group Inventory:

Time (h) = 210.0000 Leakage Transport

Noble gases (atoms)	2.1312E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.0930E+00

WW to DW Transport Group Inventory:

Time (h) = 210.0000 Leakage Transport

Noble gases (atoms)	2.1315E+24
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Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.1437E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 210.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9302E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3870E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 210.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7453E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4314E-05	5.2807E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 210.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7314E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3130E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 210.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7314E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3130E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 215.0000			
Delta dose (rem)	3.8383E-06	6.3655E-03	2.0934E-04
Accumulated dose (rem)	9.2725E-03	5.2879E+00	1.7732E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 215.0000			
Delta dose (rem)	4.2898E-08	4.6751E-05	1.5522E-06
Accumulated dose (rem)	9.5114E-04	3.6037E-01	1.2424E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 215.0000			
Delta dose (rem)	1.1125E-07	4.7277E-04	1.5374E-05
Accumulated dose (rem)	7.5881E-04	2.4887E+00	7.9874E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 215.0000				
Rb-86	2.9427E-01	3.6166E-09	2.5325E+16	5.4762E+16
I-131	1.4318E+03	1.1549E-05	5.3091E+19	3.7400E+20
I-133	4.9653E+00	4.3831E-09	1.9847E+16	6.4737E+20
I-135	9.8074E-07	2.7927E-16	1.2458E+09	5.4983E+20
Xe-133	5.2729E+03	2.8170E-05	1.2755E+20	2.9000E+20
Xe-133m	7.4392E+01	1.6898E-07	7.6511E+17	1.1664E+19
Xe-135	1.7016E-02	6.6631E-12	2.9723E+13	3.7607E+20
Xe-135m	4.5494E-07	4.9975E-18	2.2293E+07	7.7866E+19
Cs-134	4.0709E+01	3.1464E-05	1.4140E+20	5.6587E+18
Cs-136	7.7960E+00	1.0637E-07	4.7101E+17	1.6499E+18
Cs-137	3.1848E+01	3.6615E-04	1.6095E+21	4.3969E+18

DW Transport Group Inventory:

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Time (h) = 215.0000	Atmosphere	Sump	
Noble gases (atoms)	1.2832E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.0927E-04	4.5513E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		1.6522E-07
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		1.6528E-07
Total I (Ci)			1.4367E+03

DW to WW Transport Group Inventory:

Time (h) = 215.0000 Leakage Transport

Noble gases (atoms)	2.1556E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.1695E+00

WW to DW Transport Group Inventory:

Time (h) = 215.0000 Leakage Transport

Noble gases (atoms)	2.1559E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.2203E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 215.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9478E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3925E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 215.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7613E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4350E-05	5.2942E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 215.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7746E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3266E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 215.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.7746E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3266E-05

EAB Doses:

Time (h) = 220.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7420E-06	6.2402E-03	2.0540E-04
Accumulated dose (rem)	9.2762E-03	5.2942E+00	1.7752E-01

LPZ Doses:

Time (h) = 220.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1823E-08	4.5831E-05	1.5229E-06
Accumulated dose (rem)	9.5118E-04	3.6041E-01	1.2426E-02

CR Doses:

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Time (h) = 220.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0811E-07	4.6346E-04	1.5085E-05
Accumulated dose (rem)	7.5892E-04	2.4892E+00	7.9889E-02

DW Compartment Nuclide Inventory:

Time (h) = 220.0000	Ci	kg	Atoms	Decay
Rb-86	2.9149E-01	3.5824E-09	2.5086E+16	5.4957E+16
I-131	1.4038E+03	1.1323E-05	5.2054E+19	3.7494E+20
I-133	4.1958E+00	3.7039E-09	1.6771E+16	6.4737E+20
I-135	5.7954E-07	1.6502E-16	7.3614E+08	5.4983E+20
Xe-133	5.1227E+03	2.7368E-05	1.2392E+20	2.9346E+20
Xe-133m	6.9613E+01	1.5812E-07	7.1596E+17	1.1712E+19
Xe-135	1.1602E-02	4.5430E-12	2.0266E+13	3.7607E+20
Xe-135m	2.6883E-07	2.9531E-18	1.3174E+07	7.7866E+19
Cs-134	4.0629E+01	3.1402E-05	1.4113E+20	5.6858E+18
Cs-136	7.6969E+00	1.0502E-07	4.6503E+17	1.6551E+18
Cs-137	3.1792E+01	3.6550E-04	1.6066E+21	4.4181E+18

DW Transport Group Inventory:

Time (h) = 220.0000	Atmosphere	Sump
Noble gases (atoms)	1.2464E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0834E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.6198E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.6203E-07
Total I (Ci)		1.4080E+03

DW to WW Transport Group Inventory:

Time (h) = 220.0000 Leakage Transport

Noble gases (atoms)	2.1793E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.2459E+00

WW to DW Transport Group Inventory:

Time (h) = 220.0000 Leakage Transport

Noble gases (atoms)	2.1796E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.2967E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 220.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9650E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.3981E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 220.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7768E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4387E-05	5.3076E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 220.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8166E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3401E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
Time (h) = 220.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8166E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3401E-05

EAB Doses:

Time (h) = 225.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6485E-06	6.1176E-03	2.0155E-04
Accumulated dose (rem)	9.2799E-03	5.3003E+00	1.7772E-01

LPZ Doses:

Time (h) = 225.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0778E-08	4.4931E-05	1.4942E-06
Accumulated dose (rem)	9.5122E-04	3.6046E-01	1.2427E-02

CR Doses:

Time (h) = 225.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0505E-07	4.5435E-04	1.4803E-05
Accumulated dose (rem)	7.5902E-04	2.4896E+00	7.9904E-02

DW Compartment Nuclide Inventory:

Time (h) = 225.0000	Ci	kg	Atoms	Decay
Rb-86	2.8873E-01	3.5485E-09	2.4848E+16	5.5150E+16
I-131	1.3764E+03	1.1102E-05	5.1037E+19	3.7587E+20
I-133	3.5456E+00	3.1299E-09	1.4172E+16	6.4737E+20
I-135	3.4246E-07	9.7515E-17	4.3500E+08	5.4983E+20
Xe-133	4.9768E+03	2.6588E-05	1.2039E+20	2.9682E+20
Xe-133m	6.5141E+01	1.4796E-07	6.6996E+17	1.1757E+19
Xe-135	7.9100E-03	3.0974E-12	1.3817E+13	3.7607E+20
Xe-135m	1.5886E-07	1.7451E-18	7.7845E+06	7.7866E+19
Cs-134	4.0550E+01	3.1341E-05	1.4085E+20	5.7128E+18
Cs-136	7.5992E+00	1.0368E-07	4.5912E+17	1.6602E+18
Cs-137	3.1735E+01	3.6485E-04	1.6038E+21	4.4392E+18

DW Transport Group Inventory:

Time (h) = 225.0000	Atmosphere	Sump
Noble gases (atoms)	1.2106E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0740E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.5881E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.5885E-07
Total I (Ci)		1.3799E+03

DW to WW Transport Group Inventory:

Time (h) = 225.0000 Leakage Transport

Noble gases (atoms)	2.2023E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.3222E+00

WW to DW Transport Group Inventory:

Time (h) = 225.0000 Leakage Transport

Noble gases (atoms)	2.2027E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.3729E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 225.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9816E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 3.4036E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 225.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.7918E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4423E-05	5.3211E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 225.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8574E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3536E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 225.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8574E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3536E-05

EAB Doses:

Time (h) = 230.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5576E-06	5.9976E-03	1.9778E-04
Accumulated dose (rem)	9.2834E-03	5.3063E+00	1.7792E-01

LPZ Doses:

Time (h) = 230.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.9762E-08	4.4050E-05	1.4662E-06
Accumulated dose (rem)	9.5126E-04	3.6050E-01	1.2429E-02

CR Doses:

Time (h) = 230.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0209E-07	4.4543E-04	1.4526E-05
Accumulated dose (rem)	7.5912E-04	2.4901E+00	7.9918E-02

DW Compartment Nuclide Inventory:

Time (h) = 230.0000	Ci	kg	Atoms	Decay
Rb-86	2.8600E-01	3.5150E-09	2.4614E+16	5.5341E+16
I-131	1.3495E+03	1.0885E-05	5.0041E+19	3.7678E+20
I-133	2.9961E+00	2.6449E-09	1.1976E+16	6.4737E+20
I-135	2.0237E-07	5.7623E-17	2.5705E+08	5.4983E+20
Xe-133	4.8349E+03	2.5830E-05	1.1696E+20	3.0009E+20
Xe-133m	6.0955E+01	1.3845E-07	6.2691E+17	1.1799E+19
Xe-135	5.3931E-03	2.1118E-12	9.4206E+12	3.7607E+20
Xe-135m	9.3872E-08	1.0312E-18	4.6000E+06	7.7866E+19
Cs-134	4.0471E+01	3.1280E-05	1.4058E+20	5.7398E+18
Cs-136	7.5026E+00	1.0237E-07	4.5329E+17	1.6652E+18
Cs-137	3.1679E+01	3.6420E-04	1.6009E+21	4.4603E+18

DW Transport Group Inventory:

Time (h) = 230.0000	Atmosphere	Sump
Noble gases (atoms)	1.1758E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0648E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.5570E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.5573E-07
Total I (Ci)		1.3525E+03

DW to WW Transport Group Inventory:

Time (h) = 230.0000 Leakage Transport

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Noble gases (atoms)	2.2246E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.3982E+00

WW to DW Transport Group Inventory:
Time (h) = 230.0000 Leakage Transport

Noble gases (atoms)	2.2250E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.4490E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 230.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9978E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4091E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 230.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8064E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4459E-05	5.3345E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 230.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8971E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3671E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 230.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.8971E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3671E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 235.0000			
Delta dose (rem)	3.4693E-06	5.8801E-03	1.9408E-04
Accumulated dose (rem)	9.2869E-03	5.3122E+00	1.7811E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 235.0000			
Delta dose (rem)	3.8775E-08	4.3187E-05	1.4388E-06
Accumulated dose (rem)	9.5130E-04	3.6054E-01	1.2430E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 235.0000			
Delta dose (rem)	9.9205E-08	4.3670E-04	1.4256E-05
Accumulated dose (rem)	7.5922E-04	2.4905E+00	7.9932E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 235.0000				
Rb-86	2.8330E-01	3.4817E-09	2.4381E+16	5.5531E+16
I-131	1.3232E+03	1.0673E-05	4.9063E+19	3.7767E+20
I-133	2.5318E+00	2.2350E-09	1.0120E+16	6.4738E+20

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I-135	1.1958E-07	3.4051E-17	1.5190E+08	5.4983E+20
Xe-133	4.6970E+03	2.5093E-05	1.1362E+20	3.0326E+20
Xe-133m	5.7037E+01	1.2955E-07	5.8661E+17	1.1838E+19
Xe-135	3.6770E-03	1.4399E-12	6.4230E+12	3.7607E+20
Xe-135m	5.5471E-08	6.0935E-19	2.7182E+06	7.7866E+19
Cs-134	4.0392E+01	3.1219E-05	1.4030E+20	5.7667E+18
Cs-136	7.4073E+00	1.0107E-07	4.4753E+17	1.6701E+18
Cs-137	3.1623E+01	3.6356E-04	1.5981E+21	4.4814E+18

DW Transport Group Inventory:

Time (h) = 235.0000	Atmosphere	Sump	
Noble gases (atoms)	1.1421E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.0556E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.5265E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.5268E-07
Total I (Ci)			1.3257E+03

DW to WW Transport Group Inventory:

Time (h) = 235.0000 Leakage Transport

Noble gases (atoms)	2.2464E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.4741E+00

WW to DW Transport Group Inventory:

Time (h) = 235.0000 Leakage Transport

Noble gases (atoms)	2.2467E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.5249E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 235.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0135E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4146E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 235.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8206E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4496E-05	5.3478E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 235.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9355E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3805E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 235.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9355E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3805E-05

EAB Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	3.3834E-06	5.7650E-03	1.9047E-04
Accumulated dose (rem)	9.2903E-03	5.3179E+00	1.7830E-01

LPZ Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7815E-08	4.2341E-05	1.4119E-06
Accumulated dose (rem)	9.5134E-04	3.6059E-01	1.2432E-02

CR Doses:

Time (h) = 240.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6406E-08	4.2815E-04	1.3991E-05
Accumulated dose (rem)	7.5932E-04	2.4909E+00	7.9946E-02

DW Compartment Nuclide Inventory:

Time (h) = 240.0000	Ci	kg	Atoms	Decay
Rb-86	2.8062E-01	3.4488E-09	2.4150E+16	5.5719E+16
I-131	1.2973E+03	1.0464E-05	4.8105E+19	3.7854E+20
I-133	2.1395E+00	1.8886E-09	8.5516E+15	6.4738E+20
I-135	7.0663E-08	2.0121E-17	8.9758E+07	5.4983E+20
Xe-133	4.5630E+03	2.4377E-05	1.1038E+20	3.0634E+20
Xe-133m	5.3371E+01	1.2123E-07	5.4891E+17	1.1875E+19
Xe-135	2.5070E-03	9.8170E-13	4.3792E+12	3.7607E+20
Xe-135m	3.2779E-08	3.6008E-19	1.6062E+06	7.7866E+19
Cs-134	4.0313E+01	3.1158E-05	1.4003E+20	5.7936E+18
Cs-136	7.3132E+00	9.9784E-08	4.4185E+17	1.6750E+18
Cs-137	3.1567E+01	3.6291E-04	1.5953E+21	4.5025E+18

DW Transport Group Inventory:

Time (h) = 240.0000	Atmosphere	Sump
Noble gases (atoms)	1.1093E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0464E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4966E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4969E-07
Total I (Ci)		1.2995E+03

DW to WW Transport Group Inventory:

Time (h) = 240.0000 Leakage Transport

Noble gases (atoms)	2.2675E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.5498E+00

WW to DW Transport Group Inventory:

Time (h) = 240.0000 Leakage Transport

Noble gases (atoms)	2.2678E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.6006E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 240.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.0288E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.4200E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 240.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.8344E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.4532E-05 5.3612E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9729E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3939E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 240.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	4.9729E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.3939E-05

EAB Doses:

Time (h) = 245.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2999E-06	5.6522E-03	1.8693E-04
Accumulated dose (rem)	9.2936E-03	5.3236E+00	1.7849E-01

LPZ Doses:

Time (h) = 245.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6881E-08	4.1513E-05	1.3855E-06
Accumulated dose (rem)	9.5137E-04	3.6063E-01	1.2433E-02

CR Doses:

Time (h) = 245.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.3689E-08	4.1977E-04	1.3731E-05
Accumulated dose (rem)	7.5941E-04	2.4914E+00	7.9960E-02

DW Compartment Nuclide Inventory:

Time (h) = 245.0000	Ci	kg	Atoms	Decay
Rb-86	2.7797E-01	3.4162E-09	2.3922E+16	5.5905E+16
I-131	1.2720E+03	1.0260E-05	4.7166E+19	3.7939E+20
I-133	1.8079E+00	1.5960E-09	7.2264E+15	6.4738E+20
I-135	4.1756E-08	1.1890E-17	5.3039E+07	5.4983E+20
Xe-133	4.4327E+03	2.3681E-05	1.0723E+20	3.0934E+20
Xe-133m	4.9940E+01	1.1343E-07	5.1362E+17	1.1910E+19
Xe-135	1.7093E-03	6.6932E-13	2.9857E+12	3.7607E+20
Xe-135m	1.9370E-08	2.1278E-19	9.4916E+05	7.7866E+19
Cs-134	4.0235E+01	3.1097E-05	1.3976E+20	5.8204E+18
Cs-136	7.2204E+00	9.8516E-08	4.3623E+17	1.6799E+18
Cs-137	3.1511E+01	3.6227E-04	1.5924E+21	4.5235E+18

DW Transport Group Inventory:

Time (h) = 245.0000	Atmosphere	Sump
Noble gases (atoms)	1.0774E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0373E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4674E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4676E-07
Total I (Ci)		1.2738E+03

DW to WW Transport Group Inventory:

Time (h) = 245.0000 Leakage Transport

Noble gases (atoms)	2.2879E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.6254E+00

WW to DW Transport Group Inventory:

Time (h) = 245.0000 Leakage Transport

Noble gases (atoms)	2.2883E+24
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 5.6761E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 245.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0436E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4255E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 245.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8478E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4568E-05	5.3745E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 245.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0092E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4073E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 245.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0092E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4073E-05

EAB Doses:

Time (h) = 250.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2186E-06	5.5417E-03	1.8346E-04
Accumulated dose (rem)	9.2968E-03	5.3291E+00	1.7867E-01

LPZ Doses:

Time (h) = 250.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5973E-08	4.0701E-05	1.3597E-06
Accumulated dose (rem)	9.5141E-04	3.6067E-01	1.2434E-02

CR Doses:

Time (h) = 250.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1049E-08	4.1156E-04	1.3477E-05
Accumulated dose (rem)	7.5950E-04	2.4918E+00	7.9974E-02

DW Compartment Nuclide Inventory:

Time (h) = 250.0000	Ci	kg	Atoms	Decay
Rb-86	2.7534E-01	3.3839E-09	2.3696E+16	5.6089E+16
I-131	1.2471E+03	1.0060E-05	4.6245E+19	3.8023E+20
I-133	1.5277E+00	1.3486E-09	6.1065E+15	6.4738E+20
I-135	2.4674E-08	7.0260E-18	3.1342E+07	5.4983E+20
Xe-133	4.3061E+03	2.3005E-05	1.0417E+20	3.1225E+20
Xe-133m	4.6729E+01	1.0614E-07	4.8060E+17	1.1942E+19
Xe-135	1.1654E-03	4.5634E-13	2.0357E+12	3.7607E+20
Xe-135m	1.1446E-08	1.2573E-19	5.6088E+05	7.7866E+19
Cs-134	4.0156E+01	3.1037E-05	1.3948E+20	5.8472E+18
Cs-136	7.1286E+00	9.7265E-08	4.3069E+17	1.6847E+18
Cs-137	3.1455E+01	3.6163E-04	1.5896E+21	4.5444E+18

DW Transport Group Inventory:

Time (h) = 250.0000	Atmosphere	Sump

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Noble gases (atoms)	1.0465E+20	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	4.0283E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.4387E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.4388E-07
Total I (Ci)			1.2487E+03

DW to WW Transport Group Inventory:
Time (h) = 250.0000 Leakage Transport

Noble gases (atoms)	2.3078E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.7008E+00

WW to DW Transport Group Inventory:
Time (h) = 250.0000 Leakage Transport

Noble gases (atoms)	2.3082E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.7515E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 250.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0580E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4310E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 250.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8608E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4604E-05	5.3878E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 250.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0445E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4207E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 250.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0445E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4207E-05

EAB Doses:

Time (h) = 255.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1395E-06	5.4334E-03	1.8006E-04
Accumulated dose (rem)	9.2999E-03	5.3346E+00	1.7885E-01

LPZ Doses:

Time (h) = 255.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5089E-08	3.9906E-05	1.3345E-06
Accumulated dose (rem)	9.5144E-04	3.6071E-01	1.2436E-02

CR Doses:

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Time (h) = 255.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8484E-08	4.0352E-04	1.3227E-05
Accumulated dose (rem)	7.5959E-04	2.4922E+00	7.9987E-02

DW Compartment Nuclide Inventory:

Time (h) = 255.0000	Ci	kg	Atoms	Decay
Rb-86	2.7274E-01	3.3519E-09	2.3472E+16	5.6271E+16
I-131	1.2228E+03	9.8632E-06	4.5342E+19	3.8106E+20
I-133	1.2910E+00	1.1396E-09	5.1602E+15	6.4738E+20
I-135	1.4581E-08	4.1518E-18	1.8521E+07	5.4983E+20
Xe-133	4.1831E+03	2.2348E-05	1.0119E+20	3.1507E+20
Xe-133m	4.3725E+01	9.9317E-08	4.4970E+17	1.1972E+19
Xe-135	7.9455E-04	3.1113E-13	1.3879E+12	3.7607E+20
Xe-135m	6.7635E-09	7.4298E-20	3.3143E+05	7.7866E+19
Cs-134	4.0078E+01	3.0976E-05	1.3921E+20	5.8739E+18
Cs-136	7.0381E+00	9.6029E-08	4.2522E+17	1.6894E+18
Cs-137	3.1399E+01	3.6099E-04	1.5868E+21	4.5654E+18

DW Transport Group Inventory:

Time (h) = 255.0000	Atmosphere	Sump
Noble gases (atoms)	1.0164E+20	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0193E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.4105E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.4107E-07
Total I (Ci)		1.2241E+03

DW to WW Transport Group Inventory:

Time (h) = 255.0000 Leakage Transport

Noble gases (atoms)	2.3272E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.7760E+00

WW to DW Transport Group Inventory:

Time (h) = 255.0000 Leakage Transport

Noble gases (atoms)	2.3276E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.8267E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 255.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0720E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4364E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 255.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8735E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4640E-05	5.4010E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 255.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.0787E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4340E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 255.0000		
Noble gases (atoms)	0.0000E+00	5.0787E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4340E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 260.0000			
Delta dose (rem)	3.0626E-06	5.3273E-03	1.7672E-04
Accumulated dose (rem)	9.3030E-03	5.3399E+00	1.7903E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 260.0000			
Delta dose (rem)	3.4229E-08	3.9127E-05	1.3097E-06
Accumulated dose (rem)	9.5148E-04	3.6075E-01	1.2437E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 260.0000			
Delta dose (rem)	8.5994E-08	3.9564E-04	1.2983E-05
Accumulated dose (rem)	7.5968E-04	2.4926E+00	8.0000E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 260.0000				
Rb-86	2.7016E-01	3.3202E-09	2.3250E+16	5.6452E+16
I-131	1.1989E+03	9.6706E-06	4.4456E+19	3.8186E+20
I-133	1.0909E+00	9.6302E-10	4.3605E+15	6.4738E+20
I-135	8.6159E-09	2.4534E-18	1.0944E+07	5.4983E+20
Xe-133	4.0635E+03	2.1709E-05	9.8296E+19	3.1782E+20
Xe-133m	4.0913E+01	9.2930E-08	4.2078E+17	1.2000E+19
Xe-135	5.4172E-04	2.1213E-13	9.4628E+11	3.7607E+20
Xe-135m	3.9967E-09	4.3904E-20	1.9585E+05	7.7866E+19
Cs-134	4.0000E+01	3.0916E-05	1.3894E+20	5.9005E+18
Cs-136	6.9487E+00	9.4810E-08	4.1982E+17	1.6940E+18
Cs-137	3.1344E+01	3.6035E-04	1.5840E+21	4.5862E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 260.0000		
Noble gases (atoms)	9.8717E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0103E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3829E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.3831E-07
Total I (Ci)		1.2000E+03

DW to WW Transport Group Inventory:

Time (h) = 260.0000 Leakage Transport

Noble gases (atoms)	2.3459E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.8510E+00

WW to DW Transport Group Inventory:

Time (h) = 260.0000 Leakage Transport

Noble gases (atoms)	2.3463E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.9018E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 260.0000		
Noble gases (atoms)	0.0000E+00	2.0856E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4418E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 260.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8857E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4676E-05	5.4142E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 260.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1120E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4473E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 260.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1120E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4473E-05

EAB Doses:

Time (h) = 265.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9878E-06	5.2233E-03	1.7346E-04
Accumulated dose (rem)	9.3060E-03	5.3451E+00	1.7921E-01

LPZ Doses:

Time (h) = 265.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3393E-08	3.8363E-05	1.2854E-06
Accumulated dose (rem)	9.5151E-04	3.6079E-01	1.2438E-02

CR Doses:

Time (h) = 265.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.3574E-08	3.8791E-04	1.2744E-05
Accumulated dose (rem)	7.5976E-04	2.4929E+00	8.0012E-02

DW Compartment Nuclide Inventory:

Time (h) = 265.0000	Ci	kg	Atoms	Decay
Rb-86	2.6761E-01	3.2888E-09	2.3030E+16	5.6631E+16
I-131	1.1755E+03	9.4818E-06	4.3588E+19	3.8265E+20
I-133	9.2186E-01	8.1379E-10	3.6848E+15	6.4738E+20
I-135	5.0913E-09	1.4497E-18	6.4671E+06	5.4983E+20
Xe-133	3.9473E+03	2.1088E-05	9.5486E+19	3.2049E+20
Xe-133m	3.8282E+01	8.6954E-08	3.9372E+17	1.2026E+19
Xe-135	3.6934E-04	1.4463E-13	6.4517E+11	3.7607E+20
Xe-135m	2.3617E-09	2.5944E-20	1.1573E+05	7.7866E+19
Cs-134	3.9922E+01	3.0855E-05	1.3867E+20	5.9271E+18
Cs-136	6.8604E+00	9.3605E-08	4.1449E+17	1.6986E+18
Cs-137	3.1288E+01	3.5971E-04	1.5812E+21	4.6071E+18

DW Transport Group Inventory:

Time (h) = 265.0000	Atmosphere	Sump
Noble gases (atoms)	9.5879E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	4.0015E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3559E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.3560E-07
Total I (Ci)		1.1764E+03

DW to WW Transport Group Inventory:

Time (h) = 265.0000 Leakage Transport

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Noble gases (atoms)	2.3642E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.9259E+00

WW to DW Transport Group Inventory:
Time (h) = 265.0000 Leakage Transport

Noble gases (atoms)	2.3646E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	5.9766E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 265.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0988E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4472E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 265.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.8976E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4711E-05	5.4274E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 265.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1443E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4606E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 265.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1443E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4606E-05

EAB Doses:

Time (h) = 270.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9149E-06	5.1213E-03	1.7026E-04
Accumulated dose (rem)	9.3089E-03	5.3502E+00	1.7938E-01

LPZ Doses:

Time (h) = 270.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.2579E-08	3.7614E-05	1.2616E-06
Accumulated dose (rem)	9.5154E-04	3.6082E-01	1.2440E-02

CR Doses:

Time (h) = 270.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.1224E-08	3.8034E-04	1.2509E-05
Accumulated dose (rem)	7.5984E-04	2.4933E+00	8.0025E-02

DW Compartment Nuclide Inventory:

Time (h) = 270.0000	Ci	kg	Atoms	Decay
Rb-86	2.6508E-01	3.2578E-09	2.2812E+16	5.6809E+16
I-131	1.1525E+03	9.2966E-06	4.2737E+19	3.8343E+20
I-133	7.7900E-01	6.8767E-10	3.1137E+15	6.4738E+20
I-135	3.0085E-09	8.5668E-19	3.8215E+06	5.4983E+20

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Xe-133	3.8344E+03	2.0485E-05	9.2754E+19	3.2308E+20
Xe-133m	3.5820E+01	8.1362E-08	3.6840E+17	1.2051E+19
Xe-135	2.5182E-04	9.8608E-14	4.3987E+11	3.7607E+20
Xe-135m	1.3956E-09	1.5331E-20	6.8387E+04	7.7866E+19
Cs-134	3.9844E+01	3.0795E-05	1.3840E+20	5.9537E+18
Cs-136	6.7733E+00	9.2416E-08	4.0922E+17	1.7032E+18
Cs-137	3.1233E+01	3.5907E-04	1.5784E+21	4.6279E+18

DW Transport Group Inventory:

Time (h) = 270.0000	Atmosphere	Sump	
Noble gases (atoms)	9.3122E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.9926E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.3294E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.3295E-07
Total I (Ci)			1.1533E+03

DW to WW Transport Group Inventory:

Time (h) = 270.0000 Leakage Transport

Noble gases (atoms)	2.3819E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.0006E+00

WW to DW Transport Group Inventory:

Time (h) = 270.0000 Leakage Transport

Noble gases (atoms)	2.3823E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.0513E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 270.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1116E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4527E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 270.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9092E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4747E-05	5.4406E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 270.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1757E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4738E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 270.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.1757E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4738E-05

EAB Doses:

Time (h) = 275.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8440E-06	5.0214E-03	1.6712E-04

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Accumulated dose (rem) 9.3117E-03 5.3552E+00 1.7954E-01

LPZ Doses:

Time (h) = 275.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1786E-08	3.6880E-05	1.2383E-06
Accumulated dose (rem)	9.5158E-04	3.6086E-01	1.2441E-02

CR Doses:

Time (h) = 275.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8942E-08	3.7292E-04	1.2279E-05
Accumulated dose (rem)	7.5992E-04	2.4937E+00	8.0037E-02

DW Compartment Nuclide Inventory:

Time (h) = 275.0000	Ci	kg	Atoms	Decay
Rb-86	2.6257E-01	3.2270E-09	2.2597E+16	5.6984E+16
I-131	1.1300E+03	9.1151E-06	4.1902E+19	3.8419E+20
I-133	6.5828E-01	5.8111E-10	2.6312E+15	6.4738E+20
I-135	1.7778E-09	5.0623E-19	2.2582E+06	5.4983E+20
Xe-133	3.7247E+03	1.9899E-05	9.0100E+19	3.2559E+20
Xe-133m	3.3516E+01	7.6129E-08	3.4471E+17	1.2074E+19
Xe-135	1.7169E-04	6.7230E-14	2.9990E+11	3.7607E+20
Xe-135m	8.2468E-10	9.0591E-21	4.0411E+04	7.7866E+19
Cs-134	3.9766E+01	3.0735E-05	1.3813E+20	5.9802E+18
Cs-136	6.6872E+00	9.1242E-08	4.0403E+17	1.7077E+18
Cs-137	3.1177E+01	3.5844E-04	1.5756E+21	4.6487E+18

DW Transport Group Inventory:

Time (h) = 275.0000	Atmosphere	Sump
Noble gases (atoms)	9.0444E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9838E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.3034E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.3035E-07
Total I (Ci)		1.1307E+03

DW to WW Transport Group Inventory:

Time (h) = 275.0000 Leakage Transport

Noble gases (atoms)	2.3991E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.0751E+00

WW to DW Transport Group Inventory:

Time (h) = 275.0000 Leakage Transport

Noble gases (atoms)	2.3995E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.1259E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 275.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.1240E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.4580E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 275.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.9205E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.4783E-05 5.4537E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) = 275.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2061E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4870E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 275.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2061E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.4870E-05

EAB Doses:

Time (h) = 280.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7751E-06	4.9234E-03	1.6404E-04
Accumulated dose (rem)	9.3145E-03	5.3602E+00	1.7971E-01

LPZ Doses:

Time (h) = 280.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1015E-08	3.6160E-05	1.2155E-06
Accumulated dose (rem)	9.5161E-04	3.6090E-01	1.2442E-02

CR Doses:

Time (h) = 280.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6724E-08	3.6564E-04	1.2053E-05
Accumulated dose (rem)	7.6000E-04	2.4941E+00	8.0049E-02

DW Compartment Nuclide Inventory:

Time (h) = 280.0000	Ci	kg	Atoms	Decay
Rb-86	2.6009E-01	3.1964E-09	2.2383E+16	5.7158E+16
I-131	1.1080E+03	8.9371E-06	4.1084E+19	3.8493E+20
I-133	5.5627E-01	4.9105E-10	2.2234E+15	6.4738E+20
I-135	1.0505E-09	2.9914E-19	1.3344E+06	5.4983E+20
Xe-133	3.6180E+03	1.9329E-05	8.7520E+19	3.2804E+20
Xe-133m	3.1361E+01	7.1233E-08	3.2254E+17	1.2096E+19
Xe-135	1.1706E-04	4.5837E-14	2.0447E+11	3.7607E+20
Xe-135m	4.8732E-10	5.3532E-21	2.3880E+04	7.7866E+19
Cs-134	3.9689E+01	3.0675E-05	1.3786E+20	6.0067E+18
Cs-136	6.6023E+00	9.0083E-08	3.9889E+17	1.7121E+18
Cs-137	3.1122E+01	3.5780E-04	1.5728E+21	4.6694E+18

DW Transport Group Inventory:

Time (h) = 280.0000	Atmosphere	Sump
Noble gases (atoms)	8.7843E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9751E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2780E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2780E-07
Total I (Ci)		1.1085E+03

DW to WW Transport Group Inventory:

Time (h) = 280.0000 Leakage Transport

Noble gases (atoms)	2.4158E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.1495E+00

WW to DW Transport Group Inventory:

Time (h) = 280.0000 Leakage Transport

Noble gases (atoms)	2.4162E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00

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Aerosols (kg) 6.2003E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 280.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1361E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4634E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 280.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9314E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4818E-05	5.4668E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 280.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2357E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5002E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 280.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2357E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5002E-05

EAB Doses:

Time (h) = 285.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7079E-06	4.8274E-03	1.6103E-04
Accumulated dose (rem)	9.3172E-03	5.3650E+00	1.7987E-01

LPZ Doses:

Time (h) = 285.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0265E-08	3.5455E-05	1.1931E-06
Accumulated dose (rem)	9.5164E-04	3.6093E-01	1.2443E-02

CR Doses:

Time (h) = 285.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4570E-08	3.5851E-04	1.1832E-05
Accumulated dose (rem)	7.6007E-04	2.4944E+00	8.0061E-02

DW Compartment Nuclide Inventory:

Time (h) = 285.0000	Ci	kg	Atoms	Decay
Rb-86	2.5763E-01	3.1662E-09	2.2171E+16	5.7331E+16
I-131	1.0863E+03	8.7625E-06	4.0282E+19	3.8566E+20
I-133	4.7006E-01	4.1495E-10	1.8789E+15	6.4738E+20
I-135	6.2078E-10	1.7677E-19	7.8853E+05	5.4983E+20
Xe-133	3.5144E+03	1.8776E-05	8.5014E+19	3.3041E+20
Xe-133m	2.9343E+01	6.6651E-08	3.0179E+17	1.2116E+19
Xe-135	7.9808E-05	3.1252E-14	1.3941E+11	3.7607E+20
Xe-135m	2.8796E-10	3.1633E-21	1.4111E+04	7.7866E+19
Cs-134	3.9611E+01	3.0615E-05	1.3759E+20	6.0331E+18
Cs-136	6.5184E+00	8.8939E-08	3.9383E+17	1.7164E+18
Cs-137	3.1067E+01	3.5717E-04	1.5700E+21	4.6901E+18

DW Transport Group Inventory:

Time (h) = 285.0000	Atmosphere	Sump
Noble gases (atoms)	8.5316E+19	0.0000E+00

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9664E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2530E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2530E-07
Total I (Ci)		1.0868E+03

DW to WW Transport Group Inventory:
Time (h) = 285.0000 Leakage Transport

Noble gases (atoms)	2.4320E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.2237E+00

WW to DW Transport Group Inventory:
Time (h) = 285.0000 Leakage Transport

Noble gases (atoms)	2.4324E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.2745E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 285.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1478E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4688E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 285.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9420E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4854E-05	5.4799E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 285.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2645E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5133E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 285.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2645E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5133E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 290.0000			
Delta dose (rem)	2.6425E-06	4.7333E-03	1.5807E-04
Accumulated dose (rem)	9.3199E-03	5.3697E+00	1.8003E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 290.0000			
Delta dose (rem)	2.9534E-08	3.4764E-05	1.1711E-06
Accumulated dose (rem)	9.5167E-04	3.6097E-01	1.2444E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 290.0000			

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Delta dose (rem) 7.2477E-08 3.5152E-04 1.1616E-05
 Accumulated dose (rem) 7.6015E-04 2.4948E+00 8.0073E-02

DW Compartment Nuclide Inventory:

Time (h) = 290.0000	Ci	kg	Atoms	Decay
Rb-86	2.5519E-01	3.1363E-09	2.1962E+16	5.7501E+16
I-131	1.0651E+03	8.5914E-06	3.9495E+19	3.8638E+20
I-133	3.9722E-01	3.5065E-10	1.5877E+15	6.4738E+20
I-135	3.6683E-10	1.0445E-19	4.6596E+05	5.4983E+20
Xe-133	3.4138E+03	1.8238E-05	8.2579E+19	3.3272E+20
Xe-133m	2.7456E+01	6.2363E-08	2.8238E+17	1.2135E+19
Xe-135	5.4413E-05	2.1307E-14	9.5048E+10	3.7607E+20
Cs-134	3.9534E+01	3.0556E-05	1.3732E+20	6.0594E+18
Cs-136	6.4356E+00	8.7809E-08	3.8882E+17	1.7208E+18
Cs-137	3.1012E+01	3.5653E-04	1.5672E+21	4.7108E+18

DW Transport Group Inventory:

Time (h) = 290.0000	Atmosphere	Sump
Noble gases (atoms)	8.2861E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9577E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2285E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2285E-07
Total I (Ci)		1.0655E+03

DW to WW Transport Group Inventory:

Time (h) = 290.0000 Leakage Transport

Noble gases (atoms)	2.4478E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.2978E+00

WW to DW Transport Group Inventory:

Time (h) = 290.0000 Leakage Transport

Noble gases (atoms)	2.4482E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.3485E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Time (h) = 290.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1592E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4742E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

Time (h) = 290.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9523E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4889E-05	5.4929E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Time (h) = 290.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2924E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5265E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

Time (h) = 290.0000	Pathway	
	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.2924E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5265E-05

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Noble gases (atoms)	0.0000E+00	5.2924E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5265E-05

EAB Doses:

Time (h) = 295.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5789E-06	4.6410E-03	1.5518E-04
Accumulated dose (rem)	9.3224E-03	5.3744E+00	1.8018E-01

LPZ Doses:

Time (h) = 295.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8823E-08	3.4086E-05	1.1496E-06
Accumulated dose (rem)	9.5170E-04	3.6100E-01	1.2446E-02

CR Doses:

Time (h) = 295.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0445E-08	3.4466E-04	1.1403E-05
Accumulated dose (rem)	7.6022E-04	2.4951E+00	8.0084E-02

DW Compartment Nuclide Inventory:

Time (h) = 295.0000	Ci	kg	Atoms	Decay
Rb-86	2.5278E-01	3.1066E-09	2.1754E+16	5.7671E+16
I-131	1.0443E+03	8.4236E-06	3.8724E+19	3.8708E+20
I-133	3.3566E-01	2.9631E-10	1.3417E+15	6.4738E+20
I-135	2.1677E-10	6.1724E-20	2.7534E+05	5.4983E+20
Xe-133	3.3160E+03	1.7715E-05	8.0213E+19	3.3496E+20
Xe-133m	2.5690E+01	5.8352E-08	2.6421E+17	1.2153E+19
Xe-135	3.7098E-05	1.4527E-14	6.4803E+10	3.7607E+20
Cs-134	3.9457E+01	3.0496E-05	1.3705E+20	6.0857E+18
Cs-136	6.3539E+00	8.6694E-08	3.8388E+17	1.7250E+18
Cs-137	3.0957E+01	3.5590E-04	1.5644E+21	4.7314E+18

DW Transport Group Inventory:

Time (h) = 295.0000	Atmosphere	Sump
Noble gases (atoms)	8.0477E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9491E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.2045E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.2045E-07
Total I (Ci)		1.0447E+03

DW to WW Transport Group Inventory:

Time (h) = 295.0000 Leakage Transport

Noble gases (atoms)	2.4631E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.3717E+00

WW to DW Transport Group Inventory:

Time (h) = 295.0000 Leakage Transport

Noble gases (atoms)	2.4635E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.4224E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 295.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.1703E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.4795E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
Time (h) = 295.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9623E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4924E-05	5.5060E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 295.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3195E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5396E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 295.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3195E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5396E-05

EAB Doses:

Time (h) = 300.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5169E-06	4.5505E-03	1.5234E-04
Accumulated dose (rem)	9.3250E-03	5.3789E+00	1.8033E-01

LPZ Doses:

Time (h) = 300.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8130E-08	3.3421E-05	1.1285E-06
Accumulated dose (rem)	9.5172E-04	3.6103E-01	1.2447E-02

CR Doses:

Time (h) = 300.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8470E-08	3.3794E-04	1.1195E-05
Accumulated dose (rem)	7.6028E-04	2.4955E+00	8.0095E-02

DW Compartment Nuclide Inventory:

Time (h) = 300.0000	Ci	kg	Atoms	Decay
Rb-86	2.5039E-01	3.0773E-09	2.1549E+16	5.7838E+16
I-131	1.0239E+03	8.2592E-06	3.7968E+19	3.8777E+20
I-133	2.8364E-01	2.5039E-10	1.1337E+15	6.4738E+20
I-135	1.2809E-10	3.6474E-20	1.6270E+05	5.4983E+20
Xe-133	3.2209E+03	1.7207E-05	7.7914E+19	3.3713E+20
Xe-133m	2.4037E+01	5.4598E-08	2.4722E+17	1.2169E+19
Xe-135	2.5293E-05	9.9045E-15	4.4183E+10	3.7607E+20
Cs-134	3.9380E+01	3.0437E-05	1.3679E+20	6.1120E+18
Cs-136	6.2732E+00	8.5593E-08	3.7901E+17	1.7292E+18
Cs-137	3.0902E+01	3.5527E-04	1.5617E+21	4.7520E+18

DW Transport Group Inventory:

Time (h) = 300.0000	Atmosphere	Sump	
Noble gases (atoms)	7.8161E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.9406E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1810E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.1810E-07
Total I (Ci)			1.0242E+03

DW to WW Transport Group Inventory:

Time (h) = 300.0000 Leakage Transport

Noble gases (atoms)	2.4779E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.4454E+00

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WW to DW Transport Group Inventory:

Time (h) = 300.0000 Leakage Transport

Noble gases (atoms)	2.4783E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.4961E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 300.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1811E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4848E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 300.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9720E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4960E-05	5.5189E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 300.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3459E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5526E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 300.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3459E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5526E-05

EAB Doses:

Time (h) = 305.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4566E-06	4.4617E-03	1.4955E-04
Accumulated dose (rem)	9.3274E-03	5.3834E+00	1.8048E-01

LPZ Doses:

Time (h) = 305.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7456E-08	3.2769E-05	1.1078E-06
Accumulated dose (rem)	9.5175E-04	3.6107E-01	1.2448E-02

CR Doses:

Time (h) = 305.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6551E-08	3.3135E-04	1.0991E-05
Accumulated dose (rem)	7.6035E-04	2.4958E+00	8.0106E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	2.4802E-01	3.0482E-09	2.1345E+16	5.8004E+16
I-131	1.0039E+03	8.0979E-06	3.7226E+19	3.8845E+20
I-133	2.3969E-01	2.1159E-10	9.5805E+14	6.4738E+20
I-135	7.5692E-11	2.1553E-20	9.6145E+04	5.4983E+20
Xe-133	3.1286E+03	1.6714E-05	7.5680E+19	3.3925E+20
Xe-133m	2.2491E+01	5.1086E-08	2.3131E+17	1.2185E+19
Xe-135	1.7245E-05	6.7529E-15	3.0123E+10	3.7607E+20
Cs-134	3.9303E+01	3.0377E-05	1.3652E+20	6.1382E+18

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Cs-136	6.1935E+00	8.4506E-08	3.7419E+17	1.7334E+18
Cs-137	3.0847E+01	3.5464E-04	1.5589E+21	4.7726E+18

DW Transport Group Inventory:

Time (h) = 305.0000	Atmosphere	Sump	
Noble gases (atoms)	7.5912E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.9321E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.1579E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.1579E-07
Total I (Ci)			1.0042E+03

DW to WW Transport Group Inventory:

Time (h) = 305.0000 Leakage Transport

Noble gases (atoms)	2.4924E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.5190E+00

WW to DW Transport Group Inventory:

Time (h) = 305.0000 Leakage Transport

Noble gases (atoms)	2.4928E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.5697E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 305.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1915E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.4902E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 305.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9815E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.4995E-05	5.5319E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 305.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3715E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5657E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 305.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3715E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5657E-05

EAB Doses:

Time (h) = 310.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3979E-06	4.3748E-03	1.4682E-04
Accumulated dose (rem)	9.3298E-03	5.3878E+00	1.8063E-01

LPZ Doses:

Time (h) = 310.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	2.6800E-08	3.2131E-05	1.0875E-06
Accumulated dose (rem)	9.5178E-04	3.6110E-01	1.2449E-02

CR Doses:

Time (h) = 310.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4688E-08	3.2489E-04	1.0790E-05
Accumulated dose (rem)	7.6042E-04	2.4961E+00	8.0117E-02

DW Compartment Nuclide Inventory:

Time (h) = 310.0000	Ci	kg	Atoms	Decay
Rb-86	2.4568E-01	3.0194E-09	2.1143E+16	5.8168E+16
I-131	9.8433E+02	7.9397E-06	3.6499E+19	3.8911E+20
I-133	2.0254E-01	1.7880E-10	8.0958E+14	6.4738E+20
I-135	4.4728E-11	1.2736E-20	5.6814E+04	5.4983E+20
Xe-133	3.0389E+03	1.6235E-05	7.3510E+19	3.4130E+20
Xe-133m	2.1044E+01	4.7799E-08	2.1643E+17	1.2199E+19
Xe-135	1.1758E-05	4.6041E-15	2.0538E+10	3.7607E+20
Cs-134	3.9226E+01	3.0318E-05	1.3625E+20	6.1643E+18
Cs-136	6.1148E+00	8.3432E-08	3.6944E+17	1.7375E+18
Cs-137	3.0793E+01	3.5401E-04	1.5561E+21	4.7931E+18

DW Transport Group Inventory:

Time (h) = 310.0000	Atmosphere	Sump
Noble gases (atoms)	7.3726E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9236E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1353E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.1353E-07
Total I (Ci)		9.8453E+02

DW to WW Transport Group Inventory:

Time (h) = 310.0000 Leakage Transport

Noble gases (atoms)	2.5064E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.5924E+00

WW to DW Transport Group Inventory:

Time (h) = 310.0000 Leakage Transport

Noble gases (atoms)	2.5068E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.6431E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 310.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2016E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.4955E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 310.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 1.9906E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.5030E-05 5.5448E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) = 310.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 5.3963E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 0.0000E+00 5.5787E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 310.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.3963E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5787E-05

EAB Doses:

Time (h) = 315.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3407E-06	4.2895E-03	1.4414E-04
Accumulated dose (rem)	9.3322E-03	5.3920E+00	1.8077E-01

LPZ Doses:

Time (h) = 315.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6161E-08	3.1504E-05	1.0676E-06
Accumulated dose (rem)	9.5180E-04	3.6113E-01	1.2450E-02

CR Doses:

Time (h) = 315.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.2877E-08	3.1856E-04	1.0594E-05
Accumulated dose (rem)	7.6048E-04	2.4964E+00	8.0128E-02

DW Compartment Nuclide Inventory:

Time (h) = 315.0000	Ci	kg	Atoms	Decay
Rb-86	2.4335E-01	2.9908E-09	2.0943E+16	5.8331E+16
I-131	9.6510E+02	7.7847E-06	3.5787E+19	3.8976E+20
I-133	1.7116E-01	1.5109E-10	6.8412E+14	6.4738E+20
I-135	2.6430E-11	7.5260E-21	3.3572E+04	5.4983E+20
Xe-133	2.9517E+03	1.5769E-05	7.1401E+19	3.4330E+20
Xe-133m	1.9690E+01	4.4724E-08	2.0251E+17	1.2213E+19
Xe-135	8.0162E-06	3.1390E-15	1.4003E+10	3.7607E+20
Cs-134	3.9150E+01	3.0259E-05	1.3599E+20	6.1904E+18
Cs-136	6.0371E+00	8.2372E-08	3.6475E+17	1.7415E+18
Cs-137	3.0738E+01	3.5339E-04	1.5534E+21	4.8136E+18

DW Transport Group Inventory:

Time (h) = 315.0000	Atmosphere	Sump
Noble gases (atoms)	7.1604E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9152E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.1131E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.1131E-07
Total I (Ci)		9.6528E+02

DW to WW Transport Group Inventory:

Time (h) = 315.0000 Leakage Transport

Noble gases (atoms)	2.5200E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.6656E+00

WW to DW Transport Group Inventory:

Time (h) = 315.0000 Leakage Transport

Noble gases (atoms)	2.5204E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.7164E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 315.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2115E+19

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5008E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 315.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	1.9995E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5065E-05	5.5577E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 315.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4204E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5916E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 315.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4204E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.5916E-05

EAB Doses:

Time (h) = 320.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2850E-06	4.2059E-03	1.4152E-04
Accumulated dose (rem)	9.3344E-03	5.3963E+00	1.8092E-01

LPZ Doses:

Time (h) = 320.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5538E-08	3.0890E-05	1.0482E-06
Accumulated dose (rem)	9.5183E-04	3.6116E-01	1.2451E-02

CR Doses:

Time (h) = 320.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1119E-08	3.1235E-04	1.0401E-05
Accumulated dose (rem)	7.6054E-04	2.4967E+00	8.0138E-02

DW Compartment Nuclide Inventory:

Time (h) = 320.0000	Ci	kg	Atoms	Decay
Rb-86	2.4105E-01	2.9625E-09	2.0745E+16	5.8492E+16
I-131	9.4626E+02	7.6327E-06	3.5088E+19	3.9039E+20
I-133	1.4463E-01	1.2768E-10	5.7810E+14	6.4738E+20
I-135	1.5618E-11	4.4473E-21	1.9839E+04	5.4983E+20
Xe-133	2.8670E+03	1.5317E-05	6.9353E+19	3.4523E+20
Xe-133m	1.8423E+01	4.1846E-08	1.8948E+17	1.2225E+19
Xe-135	5.4654E-06	2.1402E-15	9.5469E+09	3.7607E+20
Cs-134	3.9074E+01	3.0200E-05	1.3572E+20	6.2164E+18
Cs-136	5.9605E+00	8.1326E-08	3.6011E+17	1.7455E+18
Cs-137	3.0684E+01	3.5276E-04	1.5506E+21	4.8341E+18

DW Transport Group Inventory:

Time (h) = 320.0000	Atmosphere	Sump
Noble gases (atoms)	6.9542E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.9068E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.0914E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.0914E-07
Total I (Ci)		9.4640E+02

DW to WW Transport Group Inventory:

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Time (h) = 320.0000 Leakage Transport

Noble gases (atoms)	2.5332E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.7387E+00

WW to DW Transport Group Inventory:

Time (h) = 320.0000 Leakage Transport

Noble gases (atoms)	2.5336E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.7895E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 320.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2211E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5061E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 320.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0082E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5100E-05	5.5706E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 320.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4439E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6046E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 320.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4439E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6046E-05

EAB Doses:

Time (h) = 325.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2308E-06	4.1239E-03	1.3895E-04
Accumulated dose (rem)	9.3367E-03	5.4004E+00	1.8105E-01

LPZ Doses:

Time (h) = 325.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4932E-08	3.0288E-05	1.0290E-06
Accumulated dose (rem)	9.5185E-04	3.6119E-01	1.2452E-02

CR Doses:

Time (h) = 325.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9410E-08	3.0626E-04	1.0213E-05
Accumulated dose (rem)	7.6060E-04	2.4971E+00	8.0148E-02

DW Compartment Nuclide Inventory:

Time (h) = 325.0000	Ci	kg	Atoms	Decay
Rb-86	2.3878E-01	2.9345E-09	2.0549E+16	5.8652E+16
I-131	9.2778E+02	7.4836E-06	3.4403E+19	3.9102E+20

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I-133	1.2222E-01	1.0789E-10	4.8852E+14	6.4738E+20
I-135	9.2291E-12	2.6280E-21	1.1723E+04	5.4983E+20
Xe-133	2.7847E+03	1.4877E-05	6.7363E+19	3.4711E+20
Xe-133m	1.7238E+01	3.9154E-08	1.7729E+17	1.2237E+19
Xe-135	3.7263E-06	1.4591E-15	6.5090E+09	3.7607E+20
Cs-134	3.8997E+01	3.0141E-05	1.3546E+20	6.2424E+18
Cs-136	5.8847E+00	8.0293E-08	3.5554E+17	1.7495E+18
Cs-137	3.0629E+01	3.5214E-04	1.5479E+21	4.8545E+18

DW Transport Group Inventory:

Time (h) = 325.0000	Atmosphere	Sump	
Noble gases (atoms)	6.7540E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.8984E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0700E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.0701E-07
Total I (Ci)			9.2790E+02

DW to WW Transport Group Inventory:

Time (h) = 325.0000 Leakage Transport

Noble gases (atoms)	2.5461E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.8117E+00

WW to DW Transport Group Inventory:

Time (h) = 325.0000 Leakage Transport

Noble gases (atoms)	2.5465E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.8624E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 325.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2304E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5113E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 325.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0166E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5134E-05	5.5835E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 325.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4666E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6175E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 325.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.4666E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6175E-05

EAB Doses:

Time (h) = 330.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	2.1780E-06	4.0436E-03	1.3642E-04
Accumulated dose (rem)	9.3388E-03	5.4044E+00	1.8119E-01

LPZ Doses:

Time (h) = 330.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4342E-08	2.9698E-05	1.0103E-06
Accumulated dose (rem)	9.5188E-04	3.6122E-01	1.2453E-02

CR Doses:

Time (h) = 330.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7750E-08	3.0029E-04	1.0028E-05
Accumulated dose (rem)	7.6066E-04	2.4974E+00	8.0158E-02

DW Compartment Nuclide Inventory:

Time (h) = 330.0000	Ci	kg	Atoms	Decay
Rb-86	2.3652E-01	2.9068E-09	2.0355E+16	5.8810E+16
I-131	9.0966E+02	7.3375E-06	3.3731E+19	3.9163E+20
I-133	1.0328E-01	9.1170E-11	4.1281E+14	6.4738E+20
Xe-133	2.7048E+03	1.4450E-05	6.5429E+19	3.4894E+20
Xe-133m	1.6129E+01	3.6635E-08	1.6588E+17	1.2248E+19
Xe-135	2.5405E-06	9.9484E-16	4.4378E+09	3.7607E+20
Cs-134	3.8921E+01	3.0082E-05	1.3519E+20	6.2684E+18
Cs-136	5.8100E+00	7.9273E-08	3.5102E+17	1.7533E+18
Cs-137	3.0575E+01	3.5151E-04	1.5451E+21	4.8748E+18

DW Transport Group Inventory:

Time (h) = 330.0000	Atmosphere	Sump
Noble gases (atoms)	6.5595E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8901E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.0492E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.0492E-07
Total I (Ci)		9.0976E+02

DW to WW Transport Group Inventory:

Time (h) = 330.0000 Leakage Transport

Noble gases (atoms)	2.5586E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.8844E+00

WW to DW Transport Group Inventory:

Time (h) = 330.0000 Leakage Transport

Noble gases (atoms)	2.5589E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.9352E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 330.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2394E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.5166E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 330.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.0247E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.5169E-05 5.5963E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 330.0000		
Noble gases (atoms)	0.0000E+00	5.4887E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6304E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 330.0000		
Noble gases (atoms)	0.0000E+00	5.4887E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6304E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 335.0000			
Delta dose (rem)	2.1266E-06	3.9648E-03	1.3395E-04
Accumulated dose (rem)	9.3410E-03	5.4084E+00	1.8132E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 335.0000			
Delta dose (rem)	2.3768E-08	2.9119E-05	9.9196E-07
Accumulated dose (rem)	9.5190E-04	3.6125E-01	1.2454E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 335.0000			
Delta dose (rem)	5.6138E-08	2.9444E-04	9.8461E-06
Accumulated dose (rem)	7.6071E-04	2.4976E+00	8.0168E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 335.0000				
Rb-86	2.3428E-01	2.8793E-09	2.0162E+16	5.8967E+16
I-131	8.9190E+02	7.1942E-06	3.3072E+19	3.9223E+20
I-133	8.7273E-02	7.7042E-11	3.4884E+14	6.4738E+20
Xe-133	2.6271E+03	1.4035E-05	6.3551E+19	3.5072E+20
Xe-133m	1.5091E+01	3.4278E-08	1.5521E+17	1.2259E+19
Xe-135	1.7321E-06	6.7827E-16	3.0257E+09	3.7607E+20
Cs-134	3.8845E+01	3.0024E-05	1.3493E+20	6.2943E+18
Cs-136	5.7362E+00	7.8266E-08	3.4657E+17	1.7572E+18
Cs-137	3.0521E+01	3.5089E-04	1.5424E+21	4.8952E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 335.0000		
Noble gases (atoms)	6.3706E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8819E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		1.0287E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		1.0287E-07
Total I (Ci)		8.9198E+02

DW to WW Transport Group Inventory:

Time (h) = 335.0000 Leakage Transport

Noble gases (atoms)	2.5707E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	6.9571E+00

WW to DW Transport Group Inventory:

Time (h) = 335.0000 Leakage Transport

Noble gases (atoms)	2.5711E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.0078E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) = 335.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2481E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5218E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 335.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0326E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5204E-05	5.6091E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 335.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5102E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6433E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 335.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5102E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6433E-05

EAB Doses:

Time (h) = 340.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0765E-06	3.8875E-03	1.3153E-04
Accumulated dose (rem)	9.3431E-03	5.4123E+00	1.8146E-01

LPZ Doses:

Time (h) = 340.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3208E-08	2.8552E-05	9.7395E-07
Accumulated dose (rem)	9.5193E-04	3.6128E-01	1.2455E-02

CR Doses:

Time (h) = 340.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4571E-08	2.8871E-04	9.6682E-06
Accumulated dose (rem)	7.6077E-04	2.4979E+00	8.0178E-02

DW Compartment Nuclide Inventory:

Time (h) = 340.0000	Ci	kg	Atoms	Decay
Rb-86	2.3207E-01	2.8521E-09	1.9972E+16	5.9122E+16
I-131	8.7448E+02	7.0537E-06	3.2426E+19	3.9282E+20
I-133	7.3749E-02	6.5102E-11	2.9478E+14	6.4738E+20
Xe-133	2.5517E+03	1.3632E-05	6.1726E+19	3.5244E+20
Xe-133m	1.4120E+01	3.2072E-08	1.4522E+17	1.2268E+19
Xe-135	1.1810E-06	4.6244E-16	2.0629E+09	3.7607E+20
Cs-134	3.8770E+01	2.9965E-05	1.3467E+20	6.3201E+18
Cs-136	5.6633E+00	7.7272E-08	3.4216E+17	1.7610E+18
Cs-137	3.0467E+01	3.5027E-04	1.5397E+21	4.9155E+18

DW Transport Group Inventory:

Time (h) = 340.0000	Atmosphere	Sump	
Noble gases (atoms)	6.1871E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.8737E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			1.0086E-07
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			1.0086E-07

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Total I (Ci) 8.7455E+02

DW to WW Transport Group Inventory:
Time (h) = 340.0000 Leakage Transport

Noble gases (atoms)	2.5824E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.0296E+00

WW to DW Transport Group Inventory:
Time (h) = 340.0000 Leakage Transport

Noble gases (atoms)	2.5828E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.0803E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 340.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2567E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5271E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 340.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0403E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5238E-05	5.6219E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 340.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5310E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6561E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 340.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5310E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6561E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 345.0000			
Delta dose (rem)	2.0277E-06	3.8118E-03	1.2915E-04
Accumulated dose (rem)	9.3451E-03	5.4161E+00	1.8159E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 345.0000			
Delta dose (rem)	2.2663E-08	2.7996E-05	9.5631E-07
Accumulated dose (rem)	9.5195E-04	3.6131E-01	1.2456E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 345.0000			
Delta dose (rem)	5.3049E-08	2.8308E-04	9.4937E-06
Accumulated dose (rem)	7.6082E-04	2.4982E+00	8.0187E-02

DW Compartment Nuclide Inventory:

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Time (h) = 345.0000	Ci	kg	Atoms	Decay
Rb-86	2.2987E-01	2.8251E-09	1.9783E+16	5.9276E+16
I-131	8.5740E+02	6.9159E-06	3.1793E+19	3.9339E+20
I-133	6.2320E-02	5.5014E-11	2.4910E+14	6.4738E+20
Xe-133	2.4784E+03	1.3241E-05	5.9953E+19	3.5412E+20
Xe-133m	1.3211E+01	3.0009E-08	1.3588E+17	1.2277E+19
Xe-135	8.0516E-07	3.1529E-16	1.4065E+09	3.7607E+20
Cs-134	3.8694E+01	2.9907E-05	1.3440E+20	6.3459E+18
Cs-136	5.5914E+00	7.6290E-08	3.3782E+17	1.7647E+18
Cs-137	3.0413E+01	3.4965E-04	1.5369E+21	4.9358E+18

DW Transport Group Inventory:

Time (h) = 345.0000	Atmosphere	Sump
Noble gases (atoms)	6.0089E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8655E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		9.8887E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.8888E-08
Total I (Ci)		8.5747E+02

DW to WW Transport Group Inventory:

Time (h) = 345.0000 Leakage Transport

Noble gases (atoms)	2.5939E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.1019E+00

WW to DW Transport Group Inventory:

Time (h) = 345.0000 Leakage Transport

Noble gases (atoms)	2.5943E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.1526E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 345.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2649E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5323E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 345.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0478E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5273E-05	5.6346E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 345.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5513E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6689E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 345.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5513E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6689E-05

EAB Doses:

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Time (h) = 350.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9802E-06	3.7375E-03	1.2682E-04
Accumulated dose (rem)	9.3471E-03	5.4198E+00	1.8171E-01

LPZ Doses:

Time (h) = 350.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2132E-08	2.7450E-05	9.3900E-07
Accumulated dose (rem)	9.5197E-04	3.6133E-01	1.2457E-02

CR Doses:

Time (h) = 350.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.1570E-08	2.7757E-04	9.3226E-06
Accumulated dose (rem)	7.6087E-04	2.4985E+00	8.0197E-02

DW Compartment Nuclide Inventory:

Time (h) = 350.0000	Ci	kg	Atoms	Decay
Rb-86	2.2770E-01	2.7984E-09	1.9596E+16	5.9429E+16
I-131	8.4066E+02	6.7809E-06	3.1172E+19	3.9396E+20
I-133	5.2662E-02	4.6488E-11	2.1049E+14	6.4738E+20
Xe-133	2.4072E+03	1.2860E-05	5.8231E+19	3.5574E+20
Xe-133m	1.2361E+01	2.8078E-08	1.2713E+17	1.2286E+19
Xe-135	5.4896E-07	2.1496E-16	9.5892E+08	3.7607E+20
Cs-134	3.8619E+01	2.9848E-05	1.3414E+20	6.3716E+18
Cs-136	5.5204E+00	7.5321E-08	3.3353E+17	1.7684E+18
Cs-137	3.0359E+01	3.4903E-04	1.5342E+21	4.9560E+18

DW Transport Group Inventory:

Time (h) = 350.0000	Atmosphere	Sump
Noble gases (atoms)	5.8358E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8573E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		9.6956E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		9.6957E-08
Total I (Ci)		8.4071E+02

DW to WW Transport Group Inventory:

Time (h) = 350.0000 Leakage Transport

Noble gases (atoms)	2.6050E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.1740E+00

WW to DW Transport Group Inventory:

Time (h) = 350.0000 Leakage Transport

Noble gases (atoms)	2.6054E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.2248E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 350.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2730E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.5375E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 350.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.0551E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.5307E-05 5.6473E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 350.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5709E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6817E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 350.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5709E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6817E-05

EAB Doses:

Time (h) = 355.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9340E-06	3.6647E-03	1.2453E-04
Accumulated dose (rem)	9.3490E-03	5.4235E+00	1.8184E-01

LPZ Doses:

Time (h) = 355.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1615E-08	2.6915E-05	9.2204E-07
Accumulated dose (rem)	9.5199E-04	3.6136E-01	1.2458E-02

CR Doses:

Time (h) = 355.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0134E-08	2.7216E-04	9.1548E-06
Accumulated dose (rem)	7.6092E-04	2.4988E+00	8.0206E-02

DW Compartment Nuclide Inventory:

Time (h) = 355.0000	Ci	kg	Atoms	Decay
Rb-86	2.2555E-01	2.7720E-09	1.9411E+16	5.9580E+16
I-131	8.2424E+02	6.6485E-06	3.0563E+19	3.9451E+20
I-133	4.4501E-02	3.9284E-11	1.7787E+14	6.4739E+20
Xe-133	2.3381E+03	1.2491E-05	5.6558E+19	3.5732E+20
Xe-133m	1.1566E+01	2.6271E-08	1.1895E+17	1.2294E+19
Xe-135	3.7427E-07	1.4656E-16	6.5378E+08	3.7607E+20
Cs-134	3.8543E+01	2.9790E-05	1.3388E+20	6.3973E+18
Cs-136	5.4503E+00	7.4365E-08	3.2929E+17	1.7721E+18
Cs-137	3.0305E+01	3.4841E-04	1.5315E+21	4.9762E+18

DW Transport Group Inventory:

Time (h) = 355.0000	Atmosphere	Sump	
Noble gases (atoms)	5.6677E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.8492E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			9.5062E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			9.5063E-08
Total I (Ci)			8.2429E+02

DW to WW Transport Group Inventory:

Time (h) = 355.0000 Leakage Transport

Noble gases (atoms)	2.6157E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.2461E+00

WW to DW Transport Group Inventory:

Time (h) = 355.0000 Leakage Transport

Noble gases (atoms)	2.6161E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.2968E+00

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 355.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2807E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5428E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 355.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0621E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5342E-05	5.6600E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 355.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5900E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6945E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 355.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.5900E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.6945E-05

EAB Doses:

Time (h) = 360.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8889E-06	3.5933E-03	1.2229E-04
Accumulated dose (rem)	9.3509E-03	5.4271E+00	1.8196E-01

LPZ Doses:

Time (h) = 360.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1112E-08	2.6391E-05	9.0540E-07
Accumulated dose (rem)	9.5201E-04	3.6139E-01	1.2459E-02

CR Doses:

Time (h) = 360.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8738E-08	2.6686E-04	8.9904E-06
Accumulated dose (rem)	7.6097E-04	2.4990E+00	8.0215E-02

DW Compartment Nuclide Inventory:

Time (h) = 360.0000	Ci	kg	Atoms	Decay
Rb-86	2.2341E-01	2.7457E-09	1.9227E+16	5.9729E+16
I-131	8.0815E+02	6.5186E-06	2.9967E+19	3.9506E+20
I-133	3.7605E-02	3.3196E-11	1.5031E+14	6.4739E+20
Xe-133	2.2709E+03	1.2132E-05	5.4932E+19	3.5886E+20
Xe-133m	1.0822E+01	2.4581E-08	1.1130E+17	1.2301E+19
Xe-135	2.5518E-07	9.9924E-17	4.4574E+08	3.7607E+20
Cs-134	3.8468E+01	2.9732E-05	1.3362E+20	6.4230E+18
Cs-136	5.3810E+00	7.3420E-08	3.2511E+17	1.7757E+18
Cs-137	3.0251E+01	3.4779E-04	1.5288E+21	4.9964E+18

DW Transport Group Inventory:

Time (h) = 360.0000	Atmosphere	Sump
Noble gases (atoms)	5.5044E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8412E-04	4.5513E+00

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Dose Effective (Ci/cc) I-131 (Thyroid)	9.3206E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)	9.3206E-08
Total I (Ci)	8.0818E+02

DW to WW Transport Group Inventory:
Time (h) = 360.0000 Leakage Transport

Noble gases (atoms)	2.6262E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.3179E+00

WW to DW Transport Group Inventory:
Time (h) = 360.0000 Leakage Transport

Noble gases (atoms)	2.6266E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.3687E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 360.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2883E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5480E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 360.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0689E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5376E-05	5.6727E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 360.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6086E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7072E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 360.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6086E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7072E-05

EAB Doses:

Time (h) = 365.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8451E-06	3.5233E-03	1.2009E-04
Accumulated dose (rem)	9.3527E-03	5.4306E+00	1.8208E-01

LPZ Doses:

Time (h) = 365.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0621E-08	2.5877E-05	8.8910E-07
Accumulated dose (rem)	9.5203E-04	3.6141E-01	1.2460E-02

CR Doses:

Time (h) = 365.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7382E-08	2.6166E-04	8.8291E-06
Accumulated dose (rem)	7.6102E-04	2.4993E+00	8.0224E-02

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DW Compartment Nuclide Inventory:

Time (h) = 365.0000	Ci	kg	Atoms	Decay
Rb-86	2.2130E-01	2.7198E-09	1.9045E+16	5.9877E+16
I-131	7.9237E+02	6.3913E-06	2.9381E+19	3.9559E+20
I-133	3.1777E-02	2.8052E-11	1.2702E+14	6.4739E+20
Xe-133	2.2056E+03	1.1783E-05	5.3353E+19	3.6035E+20
Xe-133m	1.0125E+01	2.2999E-08	1.0414E+17	1.2308E+19
Xe-135	1.7398E-07	6.8127E-17	3.0391E+08	3.7607E+20
Cs-134	3.8393E+01	2.9674E-05	1.3336E+20	6.4486E+18
Cs-136	5.3127E+00	7.2487E-08	3.2098E+17	1.7793E+18
Cs-137	3.0198E+01	3.4717E-04	1.5261E+21	5.0165E+18

DW Transport Group Inventory:

Time (h) = 365.0000	Atmosphere	Sump	
Noble gases (atoms)	5.3458E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.8331E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			9.1386E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			9.1386E-08
Total I (Ci)			7.9240E+02

DW to WW Transport Group Inventory:

Time (h) = 365.0000 Leakage Transport

Noble gases (atoms)	2.6364E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.3897E+00

WW to DW Transport Group Inventory:

Time (h) = 365.0000 Leakage Transport

Noble gases (atoms)	2.6368E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.4404E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 365.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2957E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5531E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 365.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0756E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5410E-05	5.6853E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 365.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6266E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7199E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 365.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6266E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7199E-05

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EAB Doses:

Time (h) = 370.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8023E-06	3.4547E-03	1.1794E-04
Accumulated dose (rem)	9.3545E-03	5.4341E+00	1.8220E-01

LPZ Doses:

Time (h) = 370.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0144E-08	2.5373E-05	8.7311E-07
Accumulated dose (rem)	9.5205E-04	3.6144E-01	1.2461E-02

CR Doses:

Time (h) = 370.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.6065E-08	2.5656E-04	8.6709E-06
Accumulated dose (rem)	7.6106E-04	2.4996E+00	8.0232E-02

DW Compartment Nuclide Inventory:

Time (h) = 370.0000	Ci	kg	Atoms	Decay
Rb-86	2.1921E-01	2.6941E-09	1.8865E+16	6.0024E+16
I-131	7.7689E+02	6.2665E-06	2.8808E+19	3.9611E+20
I-133	2.6853E-02	2.3705E-11	1.0733E+14	6.4739E+20
Xe-133	2.1422E+03	1.1444E-05	5.1820E+19	3.6179E+20
Xe-133m	9.4738E+00	2.1519E-08	9.7436E+16	1.2315E+19
Xe-135	1.1862E-07	4.6449E-17	2.0720E+08	3.7607E+20
Cs-134	3.8318E+01	2.9616E-05	1.3310E+20	6.4741E+18
Cs-136	5.2452E+00	7.1567E-08	3.1690E+17	1.7828E+18
Cs-137	3.0144E+01	3.4656E-04	1.5234E+21	5.0366E+18

DW Transport Group Inventory:

Time (h) = 370.0000	Atmosphere	Sump
Noble gases (atoms)	5.1917E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8252E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		8.9601E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		8.9601E-08
Total I (Ci)		7.7692E+02

DW to WW Transport Group Inventory:

Time (h) = 370.0000 Leakage Transport

Noble gases (atoms)	2.6463E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.4612E+00

WW to DW Transport Group Inventory:

Time (h) = 370.0000 Leakage Transport

Noble gases (atoms)	2.6466E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.5120E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 370.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3028E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5583E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 370.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0820E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 1.5445E-05 5.6979E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 370.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6441E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7326E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 370.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6441E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7326E-05

EAB Doses:

Time (h) = 375.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7607E-06	3.3874E-03	1.1583E-04
Accumulated dose (rem)	9.3563E-03	5.4374E+00	1.8231E-01

LPZ Doses:

Time (h) = 375.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9678E-08	2.4879E-05	8.5743E-07
Accumulated dose (rem)	9.5207E-04	3.6146E-01	1.2461E-02

CR Doses:

Time (h) = 375.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4785E-08	2.5156E-04	8.5158E-06
Accumulated dose (rem)	7.6111E-04	2.4998E+00	8.0241E-02

DW Compartment Nuclide Inventory:

Time (h) = 375.0000	Ci	kg	Atoms	Decay
Rb-86	2.1714E-01	2.6686E-09	1.8687E+16	6.0169E+16
I-131	7.6172E+02	6.1442E-06	2.8245E+19	3.9662E+20
I-133	2.2691E-02	2.0031E-11	9.0699E+13	6.4739E+20
Xe-133	2.0806E+03	1.1115E-05	5.0330E+19	3.6320E+20
Xe-133m	8.8642E+00	2.0134E-08	9.1166E+16	1.2321E+19
Xe-135	8.0872E-08	3.1668E-17	1.4127E+08	3.7607E+20
Cs-134	3.8244E+01	2.9558E-05	1.3284E+20	6.4996E+18
Cs-136	5.1786E+00	7.0658E-08	3.1287E+17	1.7862E+18
Cs-137	3.0091E+01	3.4594E-04	1.5207E+21	5.0566E+18

DW Transport Group Inventory:

Time (h) = 375.0000	Atmosphere	Sump	
Noble gases (atoms)	5.0421E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.8172E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			8.7851E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			8.7852E-08
Total I (Ci)			7.6174E+02

DW to WW Transport Group Inventory:

Time (h) = 375.0000 Leakage Transport

Noble gases (atoms)	2.6558E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.5326E+00

WW to DW Transport Group Inventory:

Time (h) = 375.0000 Leakage Transport

Noble gases (atoms)	2.6562E+24
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 7.5834E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 375.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3098E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5635E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 375.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0883E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5479E-05	5.7105E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 375.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6611E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7453E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 375.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6611E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7453E-05

EAB Doses:

Time (h) = 380.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7201E-06	3.3214E-03	1.1375E-04
Accumulated dose (rem)	9.3580E-03	5.4408E+00	1.8243E-01

LPZ Doses:

Time (h) = 380.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9225E-08	2.4394E-05	8.4206E-07
Accumulated dose (rem)	9.5209E-04	3.6149E-01	1.2462E-02

CR Doses:

Time (h) = 380.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3541E-08	2.4666E-04	8.3637E-06
Accumulated dose (rem)	7.6115E-04	2.5001E+00	8.0249E-02

DW Compartment Nuclide Inventory:

Time (h) = 380.0000	Ci	kg	Atoms	Decay
Rb-86	2.1508E-01	2.6434E-09	1.8510E+16	6.0313E+16
I-131	7.4685E+02	6.0242E-06	2.7693E+19	3.9713E+20
I-133	1.9175E-02	1.6927E-11	7.6644E+13	6.4739E+20
Xe-133	2.0208E+03	1.0796E-05	4.8883E+19	3.6457E+20
Xe-133m	8.2938E+00	1.8839E-08	8.5300E+16	1.2327E+19
Xe-135	5.5138E-08	2.1591E-17	9.6315E+07	3.7607E+20
Cs-134	3.8169E+01	2.9501E-05	1.3258E+20	6.5250E+18
Cs-136	5.1128E+00	6.9760E-08	3.0890E+17	1.7897E+18
Cs-137	3.0038E+01	3.4533E-04	1.5180E+21	5.0766E+18

DW Transport Group Inventory:

Time (h) = 380.0000	Atmosphere	Sump
Noble gases (atoms)	4.8968E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.8093E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			8.6136E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			8.6136E-08
Total I (Ci)			7.4687E+02

DW to WW Transport Group Inventory:
Time (h) = 380.0000 Leakage Transport

Noble gases (atoms)	2.6652E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.6039E+00

WW to DW Transport Group Inventory:
Time (h) = 380.0000 Leakage Transport

Noble gases (atoms)	2.6655E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.6547E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 380.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3165E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5686E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 380.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.0944E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5513E-05	5.7230E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 380.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6776E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7579E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 380.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6776E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7579E-05

EAB Doses:

Time (h) = 385.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6806E-06	3.2567E-03	1.1172E-04
Accumulated dose (rem)	9.3597E-03	5.4440E+00	1.8254E-01

LPZ Doses:

Time (h) = 385.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8784E-08	2.3919E-05	8.2699E-07
Accumulated dose (rem)	9.5211E-04	3.6151E-01	1.2463E-02

CR Doses:

Time (h) = 385.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.2333E-08	2.4186E-04	8.2146E-06

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Accumulated dose (rem) 7.6119E-04 2.5003E+00 8.0257E-02

DW Compartment Nuclide Inventory:

Time (h) = 385.0000	Ci	kg	Atoms	Decay
Rb-86	2.1305E-01	2.6184E-09	1.8335E+16	6.0455E+16
I-131	7.3226E+02	5.9065E-06	2.7153E+19	3.9762E+20
I-133	1.6203E-02	1.4304E-11	6.4766E+13	6.4739E+20
Xe-133	1.9627E+03	1.0485E-05	4.7477E+19	3.6589E+20
Xe-133m	7.7601E+00	1.7626E-08	7.9811E+16	1.2332E+19
Xe-135	3.7593E-08	1.4721E-17	6.5667E+07	3.7607E+20
Cs-134	3.8094E+01	2.9443E-05	1.3232E+20	6.5504E+18
Cs-136	5.0478E+00	6.8874E-08	3.0498E+17	1.7930E+18
Cs-137	2.9984E+01	3.4472E-04	1.5153E+21	5.0966E+18

DW Transport Group Inventory:

Time (h) = 385.0000	Atmosphere	Sump
Noble gases (atoms)	4.7557E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.8014E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		8.4454E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		8.4454E-08
Total I (Ci)		7.3228E+02

DW to WW Transport Group Inventory:

Time (h) = 385.0000 Leakage Transport

Noble gases (atoms)	2.6742E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.6750E+00

WW to DW Transport Group Inventory:

Time (h) = 385.0000 Leakage Transport

Noble gases (atoms)	2.6746E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.7258E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 385.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3230E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5738E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 385.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1003E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5547E-05	5.7356E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 385.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6936E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7705E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 385.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.6936E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7705E-05

EAB Doses:

Time (h) = 390.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6422E-06	3.1933E-03	1.0973E-04
Accumulated dose (rem)	9.3613E-03	5.4472E+00	1.8265E-01

LPZ Doses:

Time (h) = 390.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8354E-08	2.3453E-05	8.1222E-07
Accumulated dose (rem)	9.5213E-04	3.6154E-01	1.2464E-02

CR Doses:

Time (h) = 390.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.1159E-08	2.3715E-04	8.0684E-06
Accumulated dose (rem)	7.6124E-04	2.5005E+00	8.0266E-02

DW Compartment Nuclide Inventory:

Time (h) = 390.0000	Ci	kg	Atoms	Decay
Rb-86	2.1104E-01	2.5936E-09	1.8162E+16	6.0597E+16
I-131	7.1796E+02	5.7912E-06	2.6622E+19	3.9810E+20
I-133	1.3692E-02	1.2087E-11	5.4729E+13	6.4739E+20
Xe-133	1.9062E+03	1.0184E-05	4.6111E+19	3.6718E+20
Xe-133m	7.2608E+00	1.6492E-08	7.4675E+16	1.2337E+19
Xe-135	2.5631E-08	1.0037E-17	4.4771E+07	3.7607E+20
Cs-134	3.8020E+01	2.9386E-05	1.3206E+20	6.5758E+18
Cs-136	4.9837E+00	6.7999E-08	3.0110E+17	1.7964E+18
Cs-137	2.9931E+01	3.4411E-04	1.5126E+21	5.1166E+18

DW Transport Group Inventory:

Time (h) = 390.0000	Atmosphere	Sump
Noble gases (atoms)	4.6186E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7936E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		8.2804E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		8.2804E-08
Total I (Ci)		7.1798E+02

DW to WW Transport Group Inventory:

Time (h) = 390.0000 Leakage Transport

Noble gases (atoms)	2.6830E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.7460E+00

WW to DW Transport Group Inventory:

Time (h) = 390.0000 Leakage Transport

Noble gases (atoms)	2.6834E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.7968E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 390.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3294E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5789E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 390.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1061E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5581E-05	5.7481E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 390.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7092E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7831E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 390.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7092E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7831E-05

EAB Doses:

Time (h) = 395.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6047E-06	3.1311E-03	1.0778E-04
Accumulated dose (rem)	9.3629E-03	5.4503E+00	1.8276E-01

LPZ Doses:

Time (h) = 395.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7935E-08	2.2996E-05	7.9773E-07
Accumulated dose (rem)	9.5215E-04	3.6156E-01	1.2465E-02

CR Doses:

Time (h) = 395.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.0019E-08	2.3253E-04	7.9250E-06
Accumulated dose (rem)	7.6128E-04	2.5008E+00	8.0273E-02

DW Compartment Nuclide Inventory:

Time (h) = 395.0000	Ci	kg	Atoms	Decay
Rb-86	2.0904E-01	2.5691E-09	1.7990E+16	6.0736E+16
I-131	7.0394E+02	5.6781E-06	2.6103E+19	3.9857E+20
I-133	1.1570E-02	1.0214E-11	4.6248E+13	6.4739E+20
Xe-133	1.8514E+03	9.8908E-06	4.4785E+19	3.6843E+20
Xe-133m	6.7935E+00	1.5431E-08	6.9870E+16	1.2342E+19
Xe-135	1.7475E-08	6.8428E-18	3.0525E+07	3.7607E+20
Cs-134	3.7946E+01	2.9328E-05	1.3181E+20	6.6011E+18
Cs-136	4.9204E+00	6.7135E-08	2.9728E+17	1.7997E+18
Cs-137	2.9878E+01	3.4350E-04	1.5099E+21	5.1365E+18

DW Transport Group Inventory:

Time (h) = 395.0000	Atmosphere	Sump	
Noble gases (atoms)	4.4855E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7858E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			8.1187E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			8.1187E-08
Total I (Ci)			7.0395E+02

DW to WW Transport Group Inventory:

Time (h) = 395.0000 Leakage Transport

Noble gases (atoms)	2.6915E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.8168E+00

WW to DW Transport Group Inventory:

Time (h) = 395.0000 Leakage Transport

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Noble gases (atoms)	2.6919E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.8676E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 395.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3356E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5840E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 395.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1116E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5614E-05	5.7606E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 395.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7243E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7956E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 395.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7243E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.7956E-05

EAB Doses:

Time (h) = 400.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5682E-06	3.0701E-03	1.0586E-04
Accumulated dose (rem)	9.3645E-03	5.4534E+00	1.8286E-01

LPZ Doses:

Time (h) = 400.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7526E-08	2.2549E-05	7.8353E-07
Accumulated dose (rem)	9.5217E-04	3.6158E-01	1.2465E-02

CR Doses:

Time (h) = 400.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.8911E-08	2.2800E-04	7.7844E-06
Accumulated dose (rem)	7.6131E-04	2.5010E+00	8.0281E-02

DW Compartment Nuclide Inventory:

Time (h) = 400.0000	Ci	kg	Atoms	Decay
Rb-86	2.0707E-01	2.5448E-09	1.7820E+16	6.0875E+16
I-131	6.9019E+02	5.5672E-06	2.5593E+19	3.9904E+20
I-133	9.7774E-03	8.6311E-12	3.9081E+13	6.4739E+20
Xe-133	1.7981E+03	9.6062E-06	4.3496E+19	3.6965E+20
Xe-133m	6.3564E+00	1.4438E-08	6.5374E+16	1.2346E+19
Xe-135	1.1914E-08	4.6654E-18	2.0812E+07	3.7607E+20
Cs-134	3.7872E+01	2.9271E-05	1.3155E+20	6.6263E+18
Cs-136	4.8579E+00	6.6283E-08	2.9350E+17	1.8029E+18
Cs-137	2.9825E+01	3.4289E-04	1.5073E+21	5.1564E+18

DW Transport Group Inventory:

Time (h) = 400.0000	Atmosphere	Sump
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Noble gases (atoms)	4.3562E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7780E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			7.9602E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			7.9602E-08
Total I (Ci)			6.9020E+02

DW to WW Transport Group Inventory:
Time (h) = 400.0000 Leakage Transport

Noble gases (atoms)	2.6998E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.8875E+00

WW to DW Transport Group Inventory:
Time (h) = 400.0000 Leakage Transport

Noble gases (atoms)	2.7002E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.9383E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 400.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3416E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5892E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 400.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1170E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5648E-05	5.7730E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 400.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7390E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8081E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 400.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7390E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8081E-05

EAB Doses:

Time (h) = 405.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5326E-06	3.0104E-03	1.0399E-04
Accumulated dose (rem)	9.3660E-03	5.4564E+00	1.8297E-01

LPZ Doses:

Time (h) = 405.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7129E-08	2.2110E-05	7.6960E-07
Accumulated dose (rem)	9.5218E-04	3.6160E-01	1.2466E-02

CR Doses:

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Time (h) = 405.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.7834E-08	2.2356E-04	7.6465E-06
Accumulated dose (rem)	7.6135E-04	2.5012E+00	8.0289E-02

DW Compartment Nuclide Inventory:

Time (h) = 405.0000	Ci	kg	Atoms	Decay
Rb-86	2.0511E-01	2.5208E-09	1.7652E+16	6.1012E+16
I-131	6.7672E+02	5.4585E-06	2.5093E+19	3.9949E+20
I-133	8.2622E-03	7.2936E-12	3.3025E+13	6.4739E+20
Xe-133	1.7464E+03	9.3298E-06	4.2245E+19	3.7083E+20
Xe-133m	5.9474E+00	1.3509E-08	6.1167E+16	1.2350E+19
Xe-135	8.1230E-09	3.1808E-18	1.4189E+07	3.7607E+20
Cs-134	3.7798E+01	2.9214E-05	1.3129E+20	6.6515E+18
Cs-136	4.7962E+00	6.5441E-08	2.8977E+17	1.8062E+18
Cs-137	2.9772E+01	3.4228E-04	1.5046E+21	5.1762E+18

DW Transport Group Inventory:

Time (h) = 405.0000	Atmosphere	Sump	
Noble gases (atoms)	4.2306E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7702E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			7.8047E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			7.8047E-08
Total I (Ci)			6.7672E+02

DW to WW Transport Group Inventory:

Time (h) = 405.0000 Leakage Transport

Noble gases (atoms)	2.7078E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	7.9581E+00

WW to DW Transport Group Inventory:

Time (h) = 405.0000 Leakage Transport

Noble gases (atoms)	2.7082E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.0088E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 405.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3474E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.5943E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 405.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1223E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5682E-05	5.7854E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 405.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7532E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8206E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 405.0000	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	5.7532E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8206E-05

EAB Doses:

Time (h) = 410.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4979E-06	2.9517E-03	1.0214E-04
Accumulated dose (rem)	9.3675E-03	5.4594E+00	1.8307E-01

LPZ Doses:

Time (h) = 410.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6741E-08	2.1679E-05	7.5595E-07
Accumulated dose (rem)	9.5220E-04	3.6163E-01	1.2467E-02

CR Doses:

Time (h) = 410.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.6788E-08	2.1921E-04	7.5113E-06
Accumulated dose (rem)	7.6139E-04	2.5014E+00	8.0296E-02

DW Compartment Nuclide Inventory:

Time (h) = 410.0000	Ci	kg	Atoms	Decay
Rb-86	2.0317E-01	2.4969E-09	1.7485E+16	6.1148E+16
I-131	6.6350E+02	5.3519E-06	2.4603E+19	3.9994E+20
I-133	6.9818E-03	6.1633E-12	2.7907E+13	6.4739E+20
Xe-133	1.6961E+03	9.0613E-06	4.1029E+19	3.7197E+20
Xe-133m	5.5646E+00	1.2640E-08	5.7231E+16	1.2354E+19
Xe-135	5.5382E-09	2.1687E-18	9.6741E+06	3.7607E+20
Cs-134	3.7724E+01	2.9157E-05	1.3104E+20	6.6766E+18
Cs-136	4.7353E+00	6.4609E-08	2.8609E+17	1.8093E+18
Cs-137	2.9720E+01	3.4168E-04	1.5019E+21	5.1960E+18

DW Transport Group Inventory:

Time (h) = 410.0000	Atmosphere	Sump
Noble gases (atoms)	4.1086E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7625E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		7.6523E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.6523E-08
Total I (Ci)		6.6351E+02

DW to WW Transport Group Inventory:

Time (h) = 410.0000 Leakage Transport

Noble gases (atoms)	2.7157E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.0285E+00

WW to DW Transport Group Inventory:

Time (h) = 410.0000 Leakage Transport

Noble gases (atoms)	2.7160E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.0792E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 410.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.3530E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.5994E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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Time (h) = 410.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1274E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5715E-05	5.7978E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 410.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7671E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8331E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 410.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7671E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8331E-05

EAB Doses:

Time (h) = 415.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4641E-06	2.8943E-03	1.0034E-04
Accumulated dose (rem)	9.3690E-03	5.4623E+00	1.8317E-01

LPZ Doses:

Time (h) = 415.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6364E-08	2.1257E-05	7.4256E-07
Accumulated dose (rem)	9.5222E-04	3.6165E-01	1.2468E-02

CR Doses:

Time (h) = 415.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.5772E-08	2.1494E-04	7.3788E-06
Accumulated dose (rem)	7.6143E-04	2.5017E+00	8.0304E-02

DW Compartment Nuclide Inventory:

Time (h) = 415.0000	Ci	kg	Atoms	Decay
Rb-86	2.0125E-01	2.4733E-09	1.7319E+16	6.1283E+16
I-131	6.5054E+02	5.2474E-06	2.4123E+19	4.0038E+20
I-133	5.8999E-03	5.2082E-12	2.3582E+13	6.4739E+20
Xe-133	1.6473E+03	8.8005E-06	3.9848E+19	3.7308E+20
Xe-133m	5.2066E+00	1.1826E-08	5.3548E+16	1.2358E+19
Xe-135	3.7759E-09	1.4786E-18	6.5957E+06	3.7607E+20
Cs-134	3.7651E+01	2.9100E-05	1.3078E+20	6.7017E+18
Cs-136	4.6751E+00	6.3789E-08	2.8246E+17	1.8125E+18
Cs-137	2.9667E+01	3.4107E-04	1.4993E+21	5.2158E+18

DW Transport Group Inventory:

Time (h) = 415.0000	Atmosphere	Sump
Noble gases (atoms)	3.9902E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7549E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		7.5029E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.5029E-08
Total I (Ci)		6.5055E+02

DW to WW Transport Group Inventory:

Time (h) = 415.0000 Leakage Transport

Noble gases (atoms)	2.7232E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.0987E+00

WW to DW Transport Group Inventory:

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Time (h) = 415.0000 Leakage Transport

Noble gases (atoms)	2.7236E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.1495E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 415.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3585E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6044E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 415.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1324E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5749E-05	5.8102E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 415.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7805E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8456E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 415.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7805E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8456E-05

EAB Doses:

Time (h) = 420.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4312E-06	2.8379E-03	9.8569E-05
Accumulated dose (rem)	9.3704E-03	5.4651E+00	1.8327E-01

LPZ Doses:

Time (h) = 420.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5996E-08	2.0843E-05	7.2943E-07
Accumulated dose (rem)	9.5223E-04	3.6167E-01	1.2468E-02

CR Doses:

Time (h) = 420.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.4784E-08	2.1076E-04	7.2488E-06
Accumulated dose (rem)	7.6146E-04	2.5019E+00	8.0311E-02

DW Compartment Nuclide Inventory:

Time (h) = 420.0000	Ci	kg	Atoms	Decay
Rb-86	1.9935E-01	2.4499E-09	1.7156E+16	6.1416E+16
I-131	6.3784E+02	5.1449E-06	2.3651E+19	4.0081E+20
I-133	4.9856E-03	4.4011E-12	1.9928E+13	6.4739E+20
Xe-133	1.5999E+03	8.5472E-06	3.8701E+19	3.7417E+20
Xe-133m	4.8715E+00	1.1065E-08	5.0102E+16	1.2361E+19
Xe-135	2.5744E-09	1.0081E-18	4.4969E+06	3.7607E+20
Cs-134	3.7577E+01	2.9044E-05	1.3053E+20	6.7268E+18
Cs-136	4.6157E+00	6.2978E-08	2.7887E+17	1.8156E+18
Cs-137	2.9614E+01	3.4047E-04	1.4966E+21	5.2355E+18

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DW Transport Group Inventory:

Time (h) = 420.0000	Atmosphere	Sump	
Noble gases (atoms)	3.8751E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7472E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			7.3564E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			7.3564E-08
Total I (Ci)			6.3785E+02

DW to WW Transport Group Inventory:

Time (h) = 420.0000 Leakage Transport

Noble gases (atoms)	2.7306E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.1688E+00

WW to DW Transport Group Inventory:

Time (h) = 420.0000 Leakage Transport

Noble gases (atoms)	2.7310E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.2196E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 420.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3638E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6095E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 420.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1372E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5783E-05	5.8226E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 420.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7936E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8580E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 420.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.7936E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8580E-05

EAB Doses:

Time (h) = 425.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3992E-06	2.7827E-03	9.6834E-05
Accumulated dose (rem)	9.3718E-03	5.4679E+00	1.8336E-01

LPZ Doses:

Time (h) = 425.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5638E-08	2.0437E-05	7.1656E-07
Accumulated dose (rem)	9.5225E-04	3.6169E-01	1.2469E-02

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CR Doses:

Time (h) = 425.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.3825E-08	2.0666E-04	7.1213E-06
Accumulated dose (rem)	7.6149E-04	2.5021E+00	8.0318E-02

DW Compartment Nuclide Inventory:

Time (h) = 425.0000	Ci	kg	Atoms	Decay
Rb-86	1.9746E-01	2.4268E-09	1.6993E+16	6.1548E+16
I-131	6.2538E+02	5.0445E-06	2.3190E+19	4.0123E+20
I-133	4.2130E-03	3.7190E-12	1.6839E+13	6.4739E+20
Xe-133	1.5538E+03	8.3011E-06	3.7587E+19	3.7522E+20
Xe-133m	4.5580E+00	1.0353E-08	4.6878E+16	1.2364E+19
Xe-135	1.7552E-09	6.8731E-19	3.0660E+06	3.7607E+20
Cs-134	3.7504E+01	2.8987E-05	1.3027E+20	6.7518E+18
Cs-136	4.5571E+00	6.2178E-08	2.7533E+17	1.8186E+18
Cs-137	2.9562E+01	3.3986E-04	1.4939E+21	5.2552E+18

DW Transport Group Inventory:

Time (h) = 425.0000	Atmosphere	Sump
Noble gases (atoms)	3.7634E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7396E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		7.2127E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.2127E-08
Total I (Ci)		6.2539E+02

DW to WW Transport Group Inventory:

Time (h) = 425.0000 Leakage Transport

Noble gases (atoms)	2.7378E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.2388E+00

WW to DW Transport Group Inventory:

Time (h) = 425.0000 Leakage Transport

Noble gases (atoms)	2.7382E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.2895E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 425.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3690E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6146E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 425.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1419E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5816E-05	5.8349E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 425.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8063E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8704E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 425.0000		
Noble gases (atoms)	0.0000E+00	5.8063E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8704E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 430.0000			
Delta dose (rem)	1.3679E-06	2.7285E-03	9.5132E-05
Accumulated dose (rem)	9.3732E-03	5.4706E+00	1.8346E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 430.0000			
Delta dose (rem)	1.5289E-08	2.0040E-05	7.0394E-07
Accumulated dose (rem)	9.5226E-04	3.6171E-01	1.2470E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 430.0000			
Delta dose (rem)	3.2893E-08	2.0263E-04	6.9963E-06
Accumulated dose (rem)	7.6153E-04	2.5023E+00	8.0325E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 430.0000				
Rb-86	1.9559E-01	2.4038E-09	1.6833E+16	6.1679E+16
I-131	6.1317E+02	4.9459E-06	2.2737E+19	4.0164E+20
I-133	3.5601E-03	3.1427E-12	1.4230E+13	6.4739E+20
Xe-133	1.5091E+03	8.0622E-06	3.6505E+19	3.7624E+20
Xe-133m	4.2647E+00	9.6869E-09	4.3862E+16	1.2367E+19
Xe-135	1.1967E-09	4.6860E-19	2.0904E+06	3.7607E+20
Cs-134	3.7431E+01	2.8930E-05	1.3002E+20	6.7767E+18
Cs-136	4.4992E+00	6.1389E-08	2.7183E+17	1.8216E+18
Cs-137	2.9510E+01	3.3926E-04	1.4913E+21	5.2749E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 430.0000		
Noble gases (atoms)	3.6549E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7320E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		7.0718E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		7.0719E-08
Total I (Ci)		6.1318E+02

DW to WW Transport Group Inventory:

Time (h) = 430.0000 Leakage Transport

Noble gases (atoms)	2.7447E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.3086E+00

WW to DW Transport Group Inventory:

Time (h) = 430.0000 Leakage Transport

Noble gases (atoms)	2.7451E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.3594E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 430.0000		
Noble gases (atoms)	0.0000E+00	2.3741E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6196E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
Time (h) = 430.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1464E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5849E-05	5.8472E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 430.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8186E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8828E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 430.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8186E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8828E-05

EAB Doses:

Time (h) = 435.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3375E-06	2.6754E-03	9.3463E-05
Accumulated dose (rem)	9.3745E-03	5.4733E+00	1.8355E-01

LPZ Doses:

Time (h) = 435.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4949E-08	1.9650E-05	6.9156E-07
Accumulated dose (rem)	9.5228E-04	3.6173E-01	1.2471E-02

CR Doses:

Time (h) = 435.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.1987E-08	1.9869E-04	6.8737E-06
Accumulated dose (rem)	7.6156E-04	2.5025E+00	8.0332E-02

DW Compartment Nuclide Inventory:

Time (h) = 435.0000	Ci	kg	Atoms	Decay
Rb-86	1.9374E-01	2.3811E-09	1.6674E+16	6.1809E+16
I-131	6.0120E+02	4.8494E-06	2.2293E+19	4.0204E+20
I-133	3.0084E-03	2.6557E-12	1.2025E+13	6.4739E+20
Xe-133	1.4656E+03	7.8300E-06	3.5454E+19	3.7723E+20
Xe-133m	3.9903E+00	9.0636E-09	4.1039E+16	1.2370E+19
Xe-135	8.1589E-10	3.1949E-19	1.4252E+06	3.7607E+20
Cs-134	3.7358E+01	2.8874E-05	1.2976E+20	6.8016E+18
Cs-136	4.4421E+00	6.0609E-08	2.6838E+17	1.8246E+18
Cs-137	2.9457E+01	3.3866E-04	1.4887E+21	5.2945E+18

DW Transport Group Inventory:

Time (h) = 435.0000	Atmosphere	Sump	
Noble gases (atoms)	3.5495E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7245E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			6.9337E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.9338E-08
Total I (Ci)			6.0120E+02

DW to WW Transport Group Inventory:

Time (h) = 435.0000 Leakage Transport

Noble gases (atoms)	2.7515E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.3783E+00

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WW to DW Transport Group Inventory:

Time (h) = 435.0000 Leakage Transport

Noble gases (atoms)	2.7519E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.4290E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 435.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3789E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6247E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 435.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1508E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5883E-05	5.8595E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 435.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8305E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8951E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 435.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8305E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.8951E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 440.0000			
Delta dose (rem)	1.3079E-06	2.6233E-03	9.1826E-05
Accumulated dose (rem)	9.3758E-03	5.4759E+00	1.8364E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 440.0000			
Delta dose (rem)	1.4617E-08	1.9267E-05	6.7943E-07
Accumulated dose (rem)	9.5229E-04	3.6175E-01	1.2471E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 440.0000			
Delta dose (rem)	3.1107E-08	1.9482E-04	6.7534E-06
Accumulated dose (rem)	7.6159E-04	2.5027E+00	8.0339E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 440.0000				
Rb-86	1.9191E-01	2.3586E-09	1.6516E+16	6.1937E+16
I-131	5.8946E+02	4.7547E-06	2.1857E+19	4.0244E+20
I-133	2.5422E-03	2.2441E-12	1.0161E+13	6.4739E+20
Xe-133	1.4234E+03	7.6045E-06	3.4433E+19	3.7819E+20
Xe-133m	3.7335E+00	8.4803E-09	3.8398E+16	1.2372E+19
Xe-135	5.5627E-10	2.1783E-19	9.7168E+05	3.7607E+20
Cs-134	3.7285E+01	2.8818E-05	1.2951E+20	6.8265E+18
Cs-136	4.3857E+00	5.9839E-08	2.6497E+17	1.8275E+18

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Cs-137 2.9405E+01 3.3806E-04 1.4860E+21 5.3141E+18

DW Transport Group Inventory:

Time (h) = 440.0000	Atmosphere	Sump	
Noble gases (atoms)	3.4471E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7169E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			6.7983E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.7983E-08
Total I (Ci)			5.8946E+02

DW to WW Transport Group Inventory:

Time (h) = 440.0000 Leakage Transport

Noble gases (atoms)	2.7580E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.4478E+00

WW to DW Transport Group Inventory:

Time (h) = 440.0000 Leakage Transport

Noble gases (atoms)	2.7584E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.4986E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 440.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3837E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6297E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 440.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1551E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5916E-05	5.8717E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 440.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8422E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9074E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 440.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8422E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9074E-05

EAB Doses:

Time (h) = 445.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2790E-06	2.5723E-03	9.0221E-05
Accumulated dose (rem)	9.3771E-03	5.4785E+00	1.8373E-01

LPZ Doses:

Time (h) = 445.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4294E-08	1.8892E-05	6.6753E-07

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Accumulated dose (rem) 9.5231E-04 3.6177E-01 1.2472E-02

CR Doses:

Time (h) = 445.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	3.0252E-08	1.9103E-04	6.6355E-06
Accumulated dose (rem)	7.6162E-04	2.5029E+00	8.0345E-02

DW Compartment Nuclide Inventory:

Time (h) = 445.0000	Ci	kg	Atoms	Decay
Rb-86	1.9010E-01	2.3363E-09	1.6360E+16	6.2064E+16
I-131	5.7795E+02	4.6618E-06	2.1431E+19	4.0283E+20
I-133	2.1482E-03	1.8964E-12	8.5865E+12	6.4739E+20
Xe-133	1.3824E+03	7.3855E-06	3.3441E+19	3.7912E+20
Xe-133m	3.4932E+00	7.9346E-09	3.5927E+16	1.2375E+19
Xe-135	3.7926E-10	1.4851E-19	6.6249E+05	3.7607E+20
Cs-134	3.7212E+01	2.8761E-05	1.2926E+20	6.8513E+18
Cs-136	4.3299E+00	5.9079E-08	2.6160E+17	1.8304E+18
Cs-137	2.9353E+01	3.3746E-04	1.4834E+21	5.3337E+18

DW Transport Group Inventory:

Time (h) = 445.0000	Atmosphere	Sump	
Noble gases (atoms)	3.3477E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.7095E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			6.6656E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.6656E-08
Total I (Ci)			5.7795E+02

DW to WW Transport Group Inventory:

Time (h) = 445.0000 Leakage Transport

Noble gases (atoms)	2.7644E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.5172E+00

WW to DW Transport Group Inventory:

Time (h) = 445.0000 Leakage Transport

Noble gases (atoms)	2.7648E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.5680E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 445.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3883E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6347E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 445.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1593E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5949E-05	5.8839E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 445.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8534E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9197E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 445.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8534E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9197E-05

EAB Doses:

Time (h) = 450.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2508E-06	2.5222E-03	8.8647E-05
Accumulated dose (rem)	9.3784E-03	5.4810E+00	1.8382E-01

LPZ Doses:

Time (h) = 450.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3979E-08	1.8524E-05	6.5587E-07
Accumulated dose (rem)	9.5232E-04	3.6178E-01	1.2473E-02

CR Doses:

Time (h) = 450.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.9421E-08	1.8731E-04	6.5199E-06
Accumulated dose (rem)	7.6165E-04	2.5030E+00	8.0352E-02

DW Compartment Nuclide Inventory:

Time (h) = 450.0000	Ci	kg	Atoms	Decay
Rb-86	1.8830E-01	2.3142E-09	1.6205E+16	6.2190E+16
I-131	5.6666E+02	4.5708E-06	2.1012E+19	4.0321E+20
I-133	1.8153E-03	1.6025E-12	7.2559E+12	6.4739E+20
Xe-133	1.3426E+03	7.1728E-06	3.2478E+19	3.8003E+20
Xe-133m	3.2684E+00	7.4240E-09	3.3615E+16	1.2377E+19
Xe-135	2.5858E-10	1.0125E-19	4.5168E+05	3.7607E+20
Cs-134	3.7140E+01	2.8705E-05	1.2901E+20	6.8760E+18
Cs-136	4.2749E+00	5.8328E-08	2.5828E+17	1.8333E+18
Cs-137	2.9301E+01	3.3686E-04	1.4808E+21	5.3532E+18

DW Transport Group Inventory:

Time (h) = 450.0000	Atmosphere	Sump
Noble gases (atoms)	3.2512E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.7020E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.5354E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.5354E-08
Total I (Ci)		5.6666E+02

DW to WW Transport Group Inventory:

Time (h) = 450.0000 Leakage Transport

Noble gases (atoms)	2.7706E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.5865E+00

WW to DW Transport Group Inventory:

Time (h) = 450.0000 Leakage Transport

Noble gases (atoms)	2.7710E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.6372E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 450.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3928E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6397E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 450.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1633E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.5982E-05	5.8962E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 450.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8644E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9320E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 450.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8644E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9320E-05

EAB Doses:

Time (h) = 455.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2234E-06	2.4731E-03	8.7104E-05
Accumulated dose (rem)	9.3796E-03	5.4835E+00	1.8391E-01

LPZ Doses:

Time (h) = 455.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3673E-08	1.8164E-05	6.4443E-07
Accumulated dose (rem)	9.5233E-04	3.6180E-01	1.2473E-02

CR Doses:

Time (h) = 455.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.8613E-08	1.8367E-04	6.4066E-06
Accumulated dose (rem)	7.6168E-04	2.5032E+00	8.0358E-02

DW Compartment Nuclide Inventory:

Time (h) = 455.0000	Ci	kg	Atoms	Decay
Rb-86	1.8652E-01	2.2923E-09	1.6052E+16	6.2315E+16
I-131	5.5559E+02	4.4815E-06	2.0602E+19	4.0358E+20
I-133	1.5340E-03	1.3541E-12	6.1315E+12	6.4739E+20
Xe-133	1.3040E+03	6.9662E-06	3.1543E+19	3.8091E+20
Xe-133m	3.0581E+00	6.9462E-09	3.1452E+16	1.2379E+19
Xe-135	1.7629E-10	6.9034E-20	3.0795E+05	3.7607E+20
Cs-134	3.7067E+01	2.8649E-05	1.2875E+20	6.9007E+18
Cs-136	4.2206E+00	5.7587E-08	2.5500E+17	1.8361E+18
Cs-137	2.9249E+01	3.3627E-04	1.4781E+21	5.3727E+18

DW Transport Group Inventory:

Time (h) = 455.0000	Atmosphere	Sump
Noble gases (atoms)	3.1574E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6946E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.4078E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.4078E-08
Total I (Ci)		5.5560E+02

DW to WW Transport Group Inventory:

Time (h) = 455.0000 Leakage Transport

Noble gases (atoms)	2.7766E+24
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 8.6556E+00

WW to DW Transport Group Inventory:
 Time (h) = 455.0000 Leakage Transport

Noble gases (atoms) 2.7770E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 8.7064E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 455.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.3971E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6447E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 455.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1672E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6015E-05	5.9083E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 455.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8750E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9442E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 455.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8750E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9442E-05

EAB Doses:

Time (h) = 460.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1966E-06	2.4250E-03	8.5591E-05
Accumulated dose (rem)	9.3808E-03	5.4859E+00	1.8400E-01

LPZ Doses:

Time (h) = 460.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3374E-08	1.7811E-05	6.3321E-07
Accumulated dose (rem)	9.5235E-04	3.6182E-01	1.2474E-02

CR Doses:

Time (h) = 460.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7829E-08	1.8009E-04	6.2954E-06
Accumulated dose (rem)	7.6171E-04	2.5034E+00	8.0365E-02

DW Compartment Nuclide Inventory:

Time (h) = 460.0000	Ci	kg	Atoms	Decay
Rb-86	1.8476E-01	2.2707E-09	1.5900E+16	6.2439E+16
I-131	5.4475E+02	4.3940E-06	2.0199E+19	4.0395E+20
I-133	1.2963E-03	1.1443E-12	5.1813E+12	6.4739E+20
Xe-133	1.2664E+03	6.7656E-06	3.0634E+19	3.8177E+20
Xe-133m	2.8613E+00	6.4992E-09	2.9428E+16	1.2381E+19
Xe-135	1.2020E-10	4.7067E-20	2.0996E+05	3.7607E+20

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Cs-134	3.6995E+01	2.8594E-05	1.2850E+20	6.9254E+18
Cs-136	4.1670E+00	5.6856E-08	2.5176E+17	1.8389E+18
Cs-137	2.9197E+01	3.3567E-04	1.4755E+21	5.3922E+18

DW Transport Group Inventory:

Time (h) = 460.0000	Atmosphere	Sump	
Noble gases (atoms)	3.0663E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6872E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			6.2827E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			6.2827E-08
Total I (Ci)			5.4475E+02

DW to WW Transport Group Inventory:

Time (h) = 460.0000 Leakage Transport

Noble gases (atoms)	2.7824E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.7246E+00

WW to DW Transport Group Inventory:

Time (h) = 460.0000 Leakage Transport

Noble gases (atoms)	2.7828E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.7753E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 460.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4013E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6497E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 460.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1711E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6048E-05	5.9205E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 460.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8854E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9565E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 460.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8854E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9565E-05

EAB Doses:

Time (h) = 465.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1705E-06	2.3778E-03	8.4107E-05
Accumulated dose (rem)	9.3820E-03	5.4883E+00	1.8408E-01

LPZ Doses:

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Time (h) = 465.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3083E-08	1.7464E-05	6.2221E-07
Accumulated dose (rem)	9.5236E-04	3.6184E-01	1.2475E-02

CR Doses:

Time (h) = 465.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.7067E-08	1.7659E-04	6.1864E-06
Accumulated dose (rem)	7.6173E-04	2.5036E+00	8.0371E-02

DW Compartment Nuclide Inventory:

Time (h) = 465.0000	Ci	kg	Atoms	Decay
Rb-86	1.8301E-01	2.2492E-09	1.5750E+16	6.2561E+16
I-131	5.3411E+02	4.3082E-06	1.9805E+19	4.0431E+20
I-133	1.0954E-03	9.6696E-13	4.3783E+12	6.4739E+20
Xe-133	1.2299E+03	6.5707E-06	2.9751E+19	3.8260E+20
Xe-133m	2.6772E+00	6.0810E-09	2.7534E+16	1.2383E+19
Xe-135	8.1949E-11	3.2090E-20	1.4315E+05	3.7607E+20
Cs-134	3.6923E+01	2.8538E-05	1.2825E+20	6.9500E+18
Cs-136	4.1141E+00	5.6134E-08	2.4856E+17	1.8417E+18
Cs-137	2.9145E+01	3.3508E-04	1.4729E+21	5.4116E+18

DW Transport Group Inventory:

Time (h) = 465.0000	Atmosphere	Sump
Noble gases (atoms)	2.9779E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6798E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.1600E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.1600E-08
Total I (Ci)		5.3411E+02

DW to WW Transport Group Inventory:

Time (h) = 465.0000 Leakage Transport

Noble gases (atoms)	2.7881E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.7934E+00

WW to DW Transport Group Inventory:

Time (h) = 465.0000 Leakage Transport

Noble gases (atoms)	2.7885E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.8442E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 465.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4054E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6547E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 465.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1748E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6081E-05	5.9326E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 465.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8954E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 5.9687E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 465.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.8954E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9687E-05

EAB Doses:

Time (h) = 470.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1451E-06	2.3316E-03	8.2652E-05
Accumulated dose (rem)	9.3831E-03	5.4906E+00	1.8416E-01

LPZ Doses:

Time (h) = 470.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2799E-08	1.7124E-05	6.1143E-07
Accumulated dose (rem)	9.5237E-04	3.6185E-01	1.2475E-02

CR Doses:

Time (h) = 470.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.6326E-08	1.7315E-04	6.0794E-06
Accumulated dose (rem)	7.6176E-04	2.5038E+00	8.0377E-02

DW Compartment Nuclide Inventory:

Time (h) = 470.0000	Ci	kg	Atoms	Decay
Rb-86	1.8128E-01	2.2279E-09	1.5601E+16	6.2683E+16
I-131	5.2368E+02	4.2241E-06	1.9418E+19	4.0466E+20
I-133	9.2563E-04	8.1711E-13	3.6998E+12	6.4739E+20
Xe-133	1.1945E+03	6.3814E-06	2.8894E+19	3.8340E+20
Xe-133m	2.5049E+00	5.6897E-09	2.5762E+16	1.2385E+19
Xe-135	5.5872E-11	2.1879E-20	9.7598E+04	3.7607E+20
Cs-134	3.6851E+01	2.8482E-05	1.2800E+20	6.9746E+18
Cs-136	4.0618E+00	5.5421E-08	2.4541E+17	1.8444E+18
Cs-137	2.9094E+01	3.3448E-04	1.4703E+21	5.4310E+18

DW Transport Group Inventory:

Time (h) = 470.0000	Atmosphere	Sump
Noble gases (atoms)	2.8920E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6725E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		6.0397E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		6.0397E-08
Total I (Ci)		5.2368E+02

DW to WW Transport Group Inventory:

Time (h) = 470.0000 Leakage Transport

Noble gases (atoms)	2.7936E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.8621E+00

WW to DW Transport Group Inventory:

Time (h) = 470.0000 Leakage Transport

Noble gases (atoms)	2.7940E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.9129E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 470.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4094E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6597E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 470.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1784E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6114E-05	5.9447E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 470.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9051E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9808E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 470.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9051E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9808E-05

EAB Doses:

Time (h) = 475.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1204E-06	2.2862E-03	8.1225E-05
Accumulated dose (rem)	9.3842E-03	5.4929E+00	1.8424E-01

LPZ Doses:

Time (h) = 475.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2522E-08	1.6791E-05	6.0085E-07
Accumulated dose (rem)	9.5239E-04	3.6187E-01	1.2476E-02

CR Doses:

Time (h) = 475.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.5606E-08	1.6978E-04	5.9746E-06
Accumulated dose (rem)	7.6178E-04	2.5039E+00	8.0383E-02

DW Compartment Nuclide Inventory:

Time (h) = 475.0000	Ci	kg	Atoms	Decay
Rb-86	1.7957E-01	2.2069E-09	1.5454E+16	6.2803E+16
I-131	5.1345E+02	4.1416E-06	1.9039E+19	4.0501E+20
I-133	7.8219E-04	6.9049E-13	3.1265E+12	6.4739E+20
Xe-133	1.1601E+03	6.1975E-06	2.8062E+19	3.8419E+20
Xe-133m	2.3437E+00	5.3235E-09	2.4105E+16	1.2386E+19
Xe-135	3.8093E-11	1.4917E-20	6.6541E+04	3.7607E+20
Cs-134	3.6779E+01	2.8427E-05	1.2775E+20	6.9991E+18
Cs-136	4.0102E+00	5.4717E-08	2.4229E+17	1.8471E+18
Cs-137	2.9042E+01	3.3389E-04	1.4677E+21	5.4503E+18

DW Transport Group Inventory:

Time (h) = 475.0000	Atmosphere	Sump	
Noble gases (atoms)	2.8086E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6651E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.9217E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.9217E-08
Total I (Ci)			5.1345E+02

DW to WW Transport Group Inventory:

Time (h) = 475.0000 Leakage Transport

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Noble gases (atoms) 2.7989E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 8.9307E+00

WW to DW Transport Group Inventory:
 Time (h) = 475.0000 Leakage Transport

Noble gases (atoms) 2.7993E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 8.9815E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 475.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4133E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6646E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 475.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1818E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6146E-05	5.9568E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 475.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9146E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9930E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 475.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9146E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	5.9930E-05

EAB Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0963E-06	2.2417E-03	7.9826E-05
Accumulated dose (rem)	9.3853E-03	5.4952E+00	1.8432E-01

LPZ Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2252E-08	1.6464E-05	5.9048E-07
Accumulated dose (rem)	9.5240E-04	3.6189E-01	1.2476E-02

CR Doses:

Time (h) = 480.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4907E-08	1.6648E-04	5.8718E-06
Accumulated dose (rem)	7.6181E-04	2.5041E+00	8.0389E-02

DW Compartment Nuclide Inventory:

Time (h) = 480.0000	Ci	kg	Atoms	Decay
Rb-86	1.7787E-01	2.1860E-09	1.5307E+16	6.2922E+16
I-131	5.0342E+02	4.0607E-06	1.8667E+19	4.0534E+20
I-133	6.6097E-04	5.8348E-13	2.6420E+12	6.4739E+20
Xe-133	1.1266E+03	6.0189E-06	2.7253E+19	3.8495E+20

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Xe-133m	2.1929E+00	4.9810E-09	2.2553E+16	1.2388E+19
Xe-135	2.5972E-11	1.0170E-20	4.5367E+04	3.7607E+20
Cs-134	3.6707E+01	2.8371E-05	1.2750E+20	7.0236E+18
Cs-136	3.9593E+00	5.4022E-08	2.3921E+17	1.8497E+18
Cs-137	2.8991E+01	3.3330E-04	1.4651E+21	5.4697E+18

DW Transport Group Inventory:

Time (h) = 480.0000	Atmosphere	Sump	
Noble gases (atoms)	2.7276E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6579E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.8061E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.8061E-08
Total I (Ci)			5.0342E+02

DW to WW Transport Group Inventory:

Time (h) = 480.0000 Leakage Transport

Noble gases (atoms)	2.8041E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	8.9991E+00

WW to DW Transport Group Inventory:

Time (h) = 480.0000 Leakage Transport

Noble gases (atoms)	2.8045E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.0499E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4170E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6696E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1852E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6179E-05	5.9689E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9238E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0051E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 480.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9238E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0051E-05

EAB Doses:

Time (h) = 485.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0727E-06	2.1981E-03	7.8453E-05
Accumulated dose (rem)	9.3864E-03	5.4974E+00	1.8440E-01

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LPZ Doses:

Time (h) = 485.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1990E-08	1.6144E-05	5.8032E-07
Accumulated dose (rem)	9.5241E-04	3.6190E-01	1.2477E-02

CR Doses:

Time (h) = 485.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.4227E-08	1.6324E-04	5.7709E-06
Accumulated dose (rem)	7.6183E-04	2.5043E+00	8.0395E-02

DW Compartment Nuclide Inventory:

Time (h) = 485.0000	Ci	kg	Atoms	Decay
Rb-86	1.7619E-01	2.1653E-09	1.5163E+16	6.3040E+16
I-131	4.9359E+02	3.9814E-06	1.8303E+19	4.0568E+20
I-133	5.5854E-04	4.9306E-13	2.2325E+12	6.4739E+20
Xe-133	1.0942E+03	5.8455E-06	2.6468E+19	3.8569E+20
Xe-133m	2.0518E+00	4.6604E-09	2.1102E+16	1.2389E+19
Xe-135	1.7707E-11	6.9339E-21	3.0931E+04	3.7607E+20
Cs-134	3.6636E+01	2.8316E-05	1.2726E+20	7.0480E+18
Cs-136	3.9090E+00	5.3336E-08	2.3617E+17	1.8524E+18
Cs-137	2.8939E+01	3.3271E-04	1.4625E+21	5.4889E+18

DW Transport Group Inventory:

Time (h) = 485.0000	Atmosphere	Sump	
Noble gases (atoms)	2.6489E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6506E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.6927E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.6927E-08
Total I (Ci)			4.9359E+02

DW to WW Transport Group Inventory:

Time (h) = 485.0000 Leakage Transport

Noble gases (atoms)	2.8091E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.0674E+00

WW to DW Transport Group Inventory:

Time (h) = 485.0000 Leakage Transport

Noble gases (atoms)	2.8095E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.1182E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 485.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4207E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6745E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 485.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1885E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6212E-05	5.9809E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 485.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9327E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0172E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 485.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9327E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0172E-05

EAB Doses:

Time (h) = 490.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0498E-06	2.1554E-03	7.7108E-05
Accumulated dose (rem)	9.3874E-03	5.4995E+00	1.8448E-01

LPZ Doses:

Time (h) = 490.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1733E-08	1.5830E-05	5.7034E-07
Accumulated dose (rem)	9.5242E-04	3.6192E-01	1.2477E-02

CR Doses:

Time (h) = 490.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.3567E-08	1.6007E-04	5.6720E-06
Accumulated dose (rem)	7.6186E-04	2.5044E+00	8.0400E-02

DW Compartment Nuclide Inventory:

Time (h) = 490.0000	Ci	kg	Atoms	Decay
Rb-86	1.7452E-01	2.1449E-09	1.5019E+16	6.3156E+16
I-131	4.8395E+02	3.9037E-06	1.7945E+19	4.0600E+20
I-133	4.7199E-04	4.1665E-13	1.8866E+12	6.4739E+20
Xe-133	1.0626E+03	5.6770E-06	2.5705E+19	3.8641E+20
Xe-133m	1.9197E+00	4.3605E-09	1.9744E+16	1.2391E+19
Xe-135	1.2073E-11	4.7275E-21	2.1089E+04	3.7607E+20
Cs-134	3.6564E+01	2.8261E-05	1.2701E+20	7.0724E+18
Cs-136	3.8594E+00	5.2658E-08	2.3317E+17	1.8550E+18
Cs-137	2.8888E+01	3.3212E-04	1.4599E+21	5.5082E+18

DW Transport Group Inventory:

Time (h) = 490.0000	Atmosphere	Sump
Noble gases (atoms)	2.5725E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6434E-04	4.5513E+00
Dose Effective (Ci/cc)	I-131 (Thyroid)	5.5815E-08
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)	5.5815E-08
Total I (Ci)		4.8395E+02

DW to WW Transport Group Inventory:

Time (h) = 490.0000 Leakage Transport

Noble gases (atoms)	2.8140E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.1356E+00

WW to DW Transport Group Inventory:

Time (h) = 490.0000 Leakage Transport

Noble gases (atoms)	2.8144E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.1864E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 490.0000	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	2.4242E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6794E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 490.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1917E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6244E-05	5.9929E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 490.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9414E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0293E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 490.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9414E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0293E-05

EAB Doses:

Time (h) = 495.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0275E-06	2.1134E-03	7.5788E-05
Accumulated dose (rem)	9.3885E-03	5.5016E+00	1.8455E-01

LPZ Doses:

Time (h) = 495.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1484E-08	1.5522E-05	5.6057E-07
Accumulated dose (rem)	9.5243E-04	3.6194E-01	1.2478E-02

CR Doses:

Time (h) = 495.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2925E-08	1.5695E-04	5.5750E-06
Accumulated dose (rem)	7.6188E-04	2.5046E+00	8.0406E-02

DW Compartment Nuclide Inventory:

Time (h) = 495.0000	Ci	kg	Atoms	Decay
Rb-86	1.7287E-01	2.1246E-09	1.4877E+16	6.3272E+16
I-131	4.7450E+02	3.8274E-06	1.7595E+19	4.0632E+20
I-133	3.9884E-04	3.5208E-13	1.5942E+12	6.4739E+20
Xe-133	1.0320E+03	5.5134E-06	2.4964E+19	3.8710E+20
Xe-133m	1.7962E+00	4.0799E-09	1.8474E+16	1.2392E+19
Xe-135	8.2311E-12	3.2232E-21	1.4378E+04	3.7607E+20
Cs-134	3.6493E+01	2.8205E-05	1.2676E+20	7.0967E+18
Cs-136	3.8103E+00	5.1989E-08	2.3021E+17	1.8575E+18
Cs-137	2.8837E+01	3.3153E-04	1.4573E+21	5.5274E+18

DW Transport Group Inventory:

Time (h) = 495.0000	Atmosphere	Sump
Noble gases (atoms)	2.4983E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6362E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.4725E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.4725E-08
Total I (Ci)		4.7450E+02

DW to WW Transport Group Inventory:

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Time (h) = 495.0000 Leakage Transport

Noble gases (atoms)	2.8188E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.2036E+00

WW to DW Transport Group Inventory:

Time (h) = 495.0000 Leakage Transport

Noble gases (atoms)	2.8192E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.2544E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 495.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4276E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6844E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 495.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1948E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6277E-05	6.0049E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 495.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9498E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0413E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 495.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9498E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0413E-05

EAB Doses:

Time (h) = 500.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0057E-06	2.0723E-03	7.4494E-05
Accumulated dose (rem)	9.3895E-03	5.5037E+00	1.8463E-01

LPZ Doses:

Time (h) = 500.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1240E-08	1.5220E-05	5.5098E-07
Accumulated dose (rem)	9.5245E-04	3.6195E-01	1.2479E-02

CR Doses:

Time (h) = 500.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.2302E-08	1.5390E-04	5.4799E-06
Accumulated dose (rem)	7.6190E-04	2.5047E+00	8.0411E-02

DW Compartment Nuclide Inventory:

Time (h) = 500.0000	Ci	kg	Atoms	Decay
Rb-86	1.7124E-01	2.1045E-09	1.4737E+16	6.3387E+16
I-131	4.6524E+02	3.7527E-06	1.7251E+19	4.0663E+20

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I-133	3.3703E-04	2.9752E-13	1.3472E+12	6.4739E+20
Xe-133	1.0023E+03	5.3545E-06	2.4245E+19	3.8778E+20
Xe-133m	1.6806E+00	3.8174E-09	1.7285E+16	1.2393E+19
Cs-134	3.6422E+01	2.8150E-05	1.2651E+20	7.1210E+18
Cs-136	3.7619E+00	5.1329E-08	2.2729E+17	1.8600E+18
Cs-137	2.8786E+01	3.3094E-04	1.4547E+21	5.5466E+18

DW Transport Group Inventory:

Time (h) = 500.0000	Atmosphere	Sump	
Noble gases (atoms)	2.4262E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6290E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.3657E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.3657E-08
Total I (Ci)			4.6524E+02

DW to WW Transport Group Inventory:

Time (h) = 500.0000 Leakage Transport

Noble gases (atoms)	2.8234E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.2715E+00

WW to DW Transport Group Inventory:

Time (h) = 500.0000 Leakage Transport

Noble gases (atoms)	2.8238E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.3223E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 500.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4310E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6893E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 500.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.1978E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6309E-05	6.0168E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 500.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9580E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0534E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 500.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9580E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0534E-05

EAB Doses:

Time (h) = 505.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.8448E-07	2.0320E-03	7.3225E-05
Accumulated dose (rem)	9.3905E-03	5.5057E+00	1.8470E-01

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LPZ Doses:

Time (h) = 505.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1003E-08	1.4924E-05	5.4158E-07
Accumulated dose (rem)	9.5246E-04	3.6197E-01	1.2479E-02

CR Doses:

Time (h) = 505.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1696E-08	1.5091E-04	5.3867E-06
Accumulated dose (rem)	7.6192E-04	2.5049E+00	8.0417E-02

DW Compartment Nuclide Inventory:

Time (h) = 505.0000	Ci	kg	Atoms	Decay
Rb-86	1.6962E-01	2.0846E-09	1.4597E+16	6.3500E+16
I-131	4.5615E+02	3.6794E-06	1.6914E+19	4.0694E+20
I-133	2.8480E-04	2.5141E-13	1.1384E+12	6.4739E+20
Xe-133	9.7338E+02	5.2002E-06	2.3546E+19	3.8844E+20
Xe-133m	1.5725E+00	3.5717E-09	1.6172E+16	1.2394E+19
Cs-134	3.6351E+01	2.8096E-05	1.2627E+20	7.1452E+18
Cs-136	3.7142E+00	5.0677E-08	2.2440E+17	1.8625E+18
Cs-137	2.8735E+01	3.3035E-04	1.4521E+21	5.5658E+18

DW Transport Group Inventory:

Time (h) = 505.0000	Atmosphere	Sump	
Noble gases (atoms)	2.3562E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6218E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			5.2609E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			5.2609E-08
Total I (Ci)			4.5615E+02

DW to WW Transport Group Inventory:

Time (h) = 505.0000 Leakage Transport

Noble gases (atoms)	2.8279E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.3393E+00

WW to DW Transport Group Inventory:

Time (h) = 505.0000 Leakage Transport

Noble gases (atoms)	2.8283E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.3900E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 505.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4342E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6942E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 505.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2008E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6341E-05	6.0288E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 505.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9659E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0654E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 505.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9659E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0654E-05

EAB Doses:

Time (h) = 510.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6378E-07	1.9925E-03	7.1981E-05
Accumulated dose (rem)	9.3914E-03	5.5077E+00	1.8477E-01

LPZ Doses:

Time (h) = 510.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0772E-08	1.4634E-05	5.3236E-07
Accumulated dose (rem)	9.5247E-04	3.6198E-01	1.2480E-02

CR Doses:

Time (h) = 510.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.1107E-08	1.4797E-04	5.2952E-06
Accumulated dose (rem)	7.6195E-04	2.5050E+00	8.0422E-02

DW Compartment Nuclide Inventory:

Time (h) = 510.0000	Ci	kg	Atoms	Decay
Rb-86	1.6801E-01	2.0649E-09	1.4459E+16	6.3612E+16
I-131	4.4724E+02	3.6075E-06	1.6584E+19	4.0724E+20
I-133	2.4067E-04	2.1245E-13	9.6197E+11	6.4739E+20
Xe-133	9.4532E+02	5.0503E-06	2.2867E+19	3.8908E+20
Xe-133m	1.4713E+00	3.3419E-09	1.5132E+16	1.2395E+19
Cs-134	3.6280E+01	2.8041E-05	1.2602E+20	7.1694E+18
Cs-136	3.6670E+00	5.0033E-08	2.2155E+17	1.8650E+18
Cs-137	2.8684E+01	3.2977E-04	1.4496E+21	5.5849E+18

DW Transport Group Inventory:

Time (h) = 510.0000	Atmosphere	Sump
Noble gases (atoms)	2.2882E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6147E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.1582E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.1582E-08
Total I (Ci)		4.4724E+02

DW to WW Transport Group Inventory:

Time (h) = 510.0000 Leakage Transport

Noble gases (atoms)	2.8322E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.4069E+00

WW to DW Transport Group Inventory:

Time (h) = 510.0000 Leakage Transport

Noble gases (atoms)	2.8326E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.4577E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 510.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4374E+19

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.6991E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 510.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2036E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6374E-05	6.0407E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 510.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9736E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0774E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 510.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9736E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0774E-05

EAB Doses:

Time (h) = 515.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4361E-07	1.9538E-03	7.0760E-05
Accumulated dose (rem)	9.3924E-03	5.5097E+00	1.8484E-01

LPZ Doses:

Time (h) = 515.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0546E-08	1.4350E-05	5.2332E-07
Accumulated dose (rem)	9.5248E-04	3.6199E-01	1.2480E-02

CR Doses:

Time (h) = 515.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	2.0535E-08	1.4510E-04	5.2055E-06
Accumulated dose (rem)	7.6197E-04	2.5052E+00	8.0427E-02

DW Compartment Nuclide Inventory:

Time (h) = 515.0000	Ci	kg	Atoms	Decay
Rb-86	1.6643E-01	2.0454E-09	1.4323E+16	6.3724E+16
I-131	4.3851E+02	3.5371E-06	1.6260E+19	4.0754E+20
I-133	2.0337E-04	1.7953E-13	8.1289E+11	6.4739E+20
Xe-133	9.1807E+02	4.9047E-06	2.2208E+19	3.8970E+20
Xe-133m	1.3766E+00	3.1268E-09	1.4158E+16	1.2396E+19
Cs-134	3.6209E+01	2.7986E-05	1.2577E+20	7.1935E+18
Cs-136	3.6204E+00	4.9398E-08	2.1873E+17	1.8674E+18
Cs-137	2.8633E+01	3.2918E-04	1.4470E+21	5.6040E+18

DW Transport Group Inventory:

Time (h) = 515.0000	Atmosphere	Sump
Noble gases (atoms)	2.2222E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.6076E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		5.0574E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		5.0574E-08
Total I (Ci)		4.3851E+02

DW to WW Transport Group Inventory:

Time (h) = 515.0000 Leakage Transport

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Noble gases (atoms)	2.8365E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.4744E+00

WW to DW Transport Group Inventory:
Time (h) = 515.0000 Leakage Transport

Noble gases (atoms)	2.8368E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.5252E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 515.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4404E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7040E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 515.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2064E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6406E-05	6.0526E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 515.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9811E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0893E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 515.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9811E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.0893E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 520.0000			
Delta dose (rem)	9.2394E-07	1.9158E-03	6.9563E-05
Accumulated dose (rem)	9.3933E-03	5.5116E+00	1.8491E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 520.0000			
Delta dose (rem)	1.0326E-08	1.4071E-05	5.1445E-07
Accumulated dose (rem)	9.5249E-04	3.6201E-01	1.2481E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 520.0000			
Delta dose (rem)	1.9979E-08	1.4228E-04	5.1175E-06
Accumulated dose (rem)	7.6199E-04	2.5053E+00	8.0432E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 520.0000				
Rb-86	1.6485E-01	2.0260E-09	1.4187E+16	6.3834E+16
I-131	4.2995E+02	3.4680E-06	1.5943E+19	4.0783E+20
I-133	1.7186E-04	1.5171E-13	6.8692E+11	6.4739E+20
Xe-133	8.9160E+02	4.7633E-06	2.1568E+19	3.9030E+20

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Xe-133m	1.2880E+00	2.9256E-09	1.3247E+16	1.2397E+19
Cs-134	3.6139E+01	2.7932E-05	1.2553E+20	7.2176E+18
Cs-136	3.5744E+00	4.8770E-08	2.1596E+17	1.8698E+18
Cs-137	2.8582E+01	3.2860E-04	1.4444E+21	5.6230E+18

DW Transport Group Inventory:

Time (h) = 520.0000	Atmosphere	Sump	
Noble gases (atoms)	2.1581E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.6005E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.9587E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.9587E-08
Total I (Ci)			4.2995E+02

DW to WW Transport Group Inventory:

Time (h) = 520.0000 Leakage Transport

Noble gases (atoms)	2.8406E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.5418E+00

WW to DW Transport Group Inventory:

Time (h) = 520.0000 Leakage Transport

Noble gases (atoms)	2.8410E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.5925E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 520.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4434E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7088E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 520.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2091E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6438E-05	6.0644E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 520.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9884E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1013E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 520.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9884E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1013E-05

EAB Doses:

Time (h) = 525.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.0477E-07	1.8785E-03	6.8390E-05
Accumulated dose (rem)	9.3942E-03	5.5135E+00	1.8498E-01

LPZ Doses:

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Time (h) = 525.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0112E-08	1.3797E-05	5.0576E-07
Accumulated dose (rem)	9.5250E-04	3.6202E-01	1.2481E-02

CR Doses:

Time (h) = 525.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.9439E-08	1.3951E-04	5.0312E-06
Accumulated dose (rem)	7.6201E-04	2.5055E+00	8.0437E-02

DW Compartment Nuclide Inventory:

Time (h) = 525.0000	Ci	kg	Atoms	Decay
Rb-86	1.6329E-01	2.0069E-09	1.4053E+16	6.3943E+16
I-131	4.2155E+02	3.4003E-06	1.5631E+19	4.0811E+20
I-133	1.4522E-04	1.2820E-13	5.8047E+11	6.4739E+20
Xe-133	8.6590E+02	4.6260E-06	2.0946E+19	3.9089E+20
Xe-133m	1.2051E+00	2.7373E-09	1.2394E+16	1.2398E+19
Cs-134	3.6068E+01	2.7877E-05	1.2528E+20	7.2416E+18
Cs-136	3.5290E+00	4.8151E-08	2.1321E+17	1.8722E+18
Cs-137	2.8532E+01	3.2802E-04	1.4419E+21	5.6420E+18

DW Transport Group Inventory:

Time (h) = 525.0000	Atmosphere	Sump
Noble gases (atoms)	2.0958E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5935E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.8618E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.8618E-08
Total I (Ci)		4.2155E+02

DW to WW Transport Group Inventory:

Time (h) = 525.0000 Leakage Transport

Noble gases (atoms)	2.8446E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.6090E+00

WW to DW Transport Group Inventory:

Time (h) = 525.0000 Leakage Transport

Noble gases (atoms)	2.8449E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.6597E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 525.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.4463E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.7137E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 525.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2117E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.6470E-05 6.0763E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) = 525.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 5.9955E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 0.0000E+00 6.1132E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 525.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	5.9955E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1132E-05

EAB Doses:

Time (h) = 530.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.8608E-07	1.8420E-03	6.7239E-05
Accumulated dose (rem)	9.3951E-03	5.5153E+00	1.8505E-01

LPZ Doses:

Time (h) = 530.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.9032E-09	1.3529E-05	4.9723E-07
Accumulated dose (rem)	9.5251E-04	3.6204E-01	1.2482E-02

CR Doses:

Time (h) = 530.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8914E-08	1.3680E-04	4.9466E-06
Accumulated dose (rem)	7.6202E-04	2.5056E+00	8.0442E-02

DW Compartment Nuclide Inventory:

Time (h) = 530.0000	Ci	kg	Atoms	Decay
Rb-86	1.6175E-01	1.9879E-09	1.3920E+16	6.4052E+16
I-131	4.1332E+02	3.3339E-06	1.5326E+19	4.0839E+20
I-133	1.2272E-04	1.0833E-13	4.9051E+11	6.4739E+20
Xe-133	8.4093E+02	4.4926E-06	2.0342E+19	3.9145E+20
Xe-133m	1.1276E+00	2.5612E-09	1.1597E+16	1.2398E+19
Cs-134	3.5998E+01	2.7823E-05	1.2504E+20	7.2656E+18
Cs-136	3.4842E+00	4.7539E-08	2.1050E+17	1.8745E+18
Cs-137	2.8481E+01	3.2744E-04	1.4393E+21	5.6610E+18

DW Transport Group Inventory:

Time (h) = 530.0000	Atmosphere	Sump
Noble gases (atoms)	2.0354E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5864E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.7669E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.7669E-08
Total I (Ci)		4.1332E+02

DW to WW Transport Group Inventory:

Time (h) = 530.0000 Leakage Transport

Noble gases (atoms)	2.8484E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.6761E+00

WW to DW Transport Group Inventory:

Time (h) = 530.0000 Leakage Transport

Noble gases (atoms)	2.8488E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.7268E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 530.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4491E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 3.7185E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 530.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2142E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6502E-05	6.0881E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 530.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0023E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1251E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 530.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0023E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1251E-05

EAB Doses:

Time (h) = 535.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.6785E-07	1.8062E-03	6.6110E-05
Accumulated dose (rem)	9.3960E-03	5.5171E+00	1.8512E-01

LPZ Doses:

Time (h) = 535.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6995E-09	1.3266E-05	4.8887E-07
Accumulated dose (rem)	9.5252E-04	3.6205E-01	1.2482E-02

CR Doses:

Time (h) = 535.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.8403E-08	1.3414E-04	4.8636E-06
Accumulated dose (rem)	7.6204E-04	2.5057E+00	8.0447E-02

DW Compartment Nuclide Inventory:

Time (h) = 535.0000	Ci	kg	Atoms	Decay
Rb-86	1.6022E-01	1.9691E-09	1.3789E+16	6.4159E+16
I-131	4.0525E+02	3.2688E-06	1.5027E+19	4.0866E+20
I-133	1.0370E-04	9.1543E-14	4.1450E+11	6.4739E+20
Xe-133	8.1669E+02	4.3631E-06	1.9756E+19	3.9201E+20
Xe-133m	1.0550E+00	2.3964E-09	1.0850E+16	1.2399E+19
Cs-134	3.5928E+01	2.7768E-05	1.2479E+20	7.2896E+18
Cs-136	3.4399E+00	4.6935E-08	2.0783E+17	1.8768E+18
Cs-137	2.8431E+01	3.2686E-04	1.4368E+21	5.6800E+18

DW Transport Group Inventory:

Time (h) = 535.0000	Atmosphere	Sump	
Noble gases (atoms)	1.9766E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5794E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.6738E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.6738E-08
Total I (Ci)			4.0525E+02

DW to WW Transport Group Inventory:

Time (h) = 535.0000 Leakage Transport

Noble gases (atoms)	2.8522E+24
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 9.7430E+00

WW to DW Transport Group Inventory:
Time (h) = 535.0000 Leakage Transport

Noble gases (atoms) 2.8526E+24
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 9.7938E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 535.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4518E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7234E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 535.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2167E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6534E-05	6.0999E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 535.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0090E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1369E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 535.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0090E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1369E-05

EAB Doses:

Time (h) = 540.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5009E-07	1.7711E-03	6.5003E-05
Accumulated dose (rem)	9.3968E-03	5.5189E+00	1.8518E-01

LPZ Doses:

Time (h) = 540.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.5010E-09	1.3008E-05	4.8067E-07
Accumulated dose (rem)	9.5253E-04	3.6206E-01	1.2483E-02

CR Doses:

Time (h) = 540.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7907E-08	1.3153E-04	4.7822E-06
Accumulated dose (rem)	7.6206E-04	2.5059E+00	8.0452E-02

DW Compartment Nuclide Inventory:

Time (h) = 540.0000	Ci	kg	Atoms	Decay
Rb-86	1.5871E-01	1.9505E-09	1.3658E+16	6.4265E+16
I-131	3.9733E+02	3.2050E-06	1.4733E+19	4.0893E+20
I-133	8.7630E-05	7.7357E-14	3.5026E+11	6.4739E+20
Xe-133	7.9314E+02	4.2373E-06	1.9186E+19	3.9254E+20
Xe-133m	9.8711E-01	2.2421E-09	1.0152E+16	1.2400E+19
Cs-134	3.5858E+01	2.7714E-05	1.2455E+20	7.3135E+18

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Cs-136	3.3962E+00	4.6339E-08	2.0519E+17	1.8791E+18
Cs-137	2.8380E+01	3.2628E-04	1.4342E+21	5.6989E+18

DW Transport Group Inventory:

Time (h) = 540.0000	Atmosphere	Sump	
Noble gases (atoms)	1.9196E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5725E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.5825E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.5825E-08
Total I (Ci)			3.9733E+02

DW to WW Transport Group Inventory:

Time (h) = 540.0000 Leakage Transport

Noble gases (atoms)	2.8558E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.8099E+00

WW to DW Transport Group Inventory:

Time (h) = 540.0000 Leakage Transport

Noble gases (atoms)	2.8562E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.8606E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 540.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4544E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7282E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 540.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2190E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6566E-05	6.1117E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 540.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0154E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1488E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 540.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0154E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1488E-05

EAB Doses:

Time (h) = 545.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.3276E-07	1.7367E-03	6.3917E-05
Accumulated dose (rem)	9.3976E-03	5.5206E+00	1.8525E-01

LPZ Doses:

Time (h) = 545.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	9.3073E-09	1.2755E-05	4.7263E-07
Accumulated dose (rem)	9.5254E-04	3.6207E-01	1.2483E-02

CR Doses:

Time (h) = 545.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.7426E-08	1.2898E-04	4.7024E-06
Accumulated dose (rem)	7.6208E-04	2.5060E+00	8.0457E-02

DW Compartment Nuclide Inventory:

Time (h) = 545.0000	Ci	kg	Atoms	Decay
Rb-86	1.5721E-01	1.9321E-09	1.3529E+16	6.4370E+16
I-131	3.8957E+02	3.1424E-06	1.4446E+19	4.0919E+20
I-133	7.4050E-05	6.5369E-14	2.9598E+11	6.4739E+20
Xe-133	7.7027E+02	4.1151E-06	1.8633E+19	3.9306E+20
Xe-133m	9.2359E-01	2.0979E-09	9.4989E+15	1.2401E+19
Cs-134	3.5788E+01	2.7660E-05	1.2431E+20	7.3373E+18
Cs-136	3.3531E+00	4.5750E-08	2.0258E+17	1.8813E+18
Cs-137	2.8330E+01	3.2570E-04	1.4317E+21	5.7177E+18

DW Transport Group Inventory:

Time (h) = 545.0000	Atmosphere	Sump	
Noble gases (atoms)	1.8642E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5655E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.4930E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.4930E-08
Total I (Ci)			3.8958E+02

DW to WW Transport Group Inventory:

Time (h) = 545.0000 Leakage Transport

Noble gases (atoms)	2.8594E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.8766E+00

WW to DW Transport Group Inventory:

Time (h) = 545.0000 Leakage Transport

Noble gases (atoms)	2.8598E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.9273E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 545.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4570E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7331E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 545.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2214E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6598E-05	6.1234E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 545.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0217E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1606E-05

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DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 545.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0217E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1606E-05

EAB Doses:

Time (h) = 550.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.1587E-07	1.7029E-03	6.2852E-05
Accumulated dose (rem)	9.3985E-03	5.5223E+00	1.8531E-01

LPZ Doses:

Time (h) = 550.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1185E-09	1.2507E-05	4.6475E-07
Accumulated dose (rem)	9.5255E-04	3.6209E-01	1.2484E-02

CR Doses:

Time (h) = 550.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6957E-08	1.2647E-04	4.6241E-06
Accumulated dose (rem)	7.6210E-04	2.5061E+00	8.0461E-02

DW Compartment Nuclide Inventory:

Time (h) = 550.0000	Ci	kg	Atoms	Decay
Rb-86	1.5572E-01	1.9138E-09	1.3401E+16	6.4474E+16
I-131	3.8197E+02	3.0810E-06	1.4164E+19	4.0945E+20
I-133	6.2575E-05	5.5239E-14	2.5012E+11	6.4739E+20
Xe-133	7.4806E+02	3.9964E-06	1.8095E+19	3.9357E+20
Xe-133m	8.6416E-01	1.9629E-09	8.8876E+15	1.2401E+19
Cs-134	3.5718E+01	2.7606E-05	1.2407E+20	7.3611E+18
Cs-136	3.3105E+00	4.5169E-08	2.0001E+17	1.8835E+18
Cs-137	2.8280E+01	3.2512E-04	1.4292E+21	5.7366E+18

DW Transport Group Inventory:

Time (h) = 550.0000	Atmosphere	Sump
Noble gases (atoms)	1.8104E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5586E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.4053E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.4053E-08
Total I (Ci)		3.8197E+02

DW to WW Transport Group Inventory:

Time (h) = 550.0000 Leakage Transport

Noble gases (atoms)	2.8628E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.9432E+00

WW to DW Transport Group Inventory:

Time (h) = 550.0000 Leakage Transport

Noble gases (atoms)	2.8632E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	9.9939E+00

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 550.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4595E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7379E-04

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DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 550.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2236E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6630E-05	6.1352E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 550.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0278E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1724E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 550.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0278E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1724E-05

EAB Doses:

Time (h) = 555.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.9940E-07	1.6699E-03	6.1808E-05
Accumulated dose (rem)	9.3993E-03	5.5240E+00	1.8537E-01

LPZ Doses:

Time (h) = 555.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.9344E-09	1.2264E-05	4.5702E-07
Accumulated dose (rem)	9.5255E-04	3.6210E-01	1.2484E-02

CR Doses:

Time (h) = 555.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6502E-08	1.2401E-04	4.5473E-06
Accumulated dose (rem)	7.6211E-04	2.5062E+00	8.0466E-02

DW Compartment Nuclide Inventory:

Time (h) = 555.0000	Ci	kg	Atoms	Decay
Rb-86	1.5425E-01	1.8957E-09	1.3275E+16	6.4577E+16
I-131	3.7451E+02	3.0208E-06	1.3887E+19	4.0970E+20
I-133	5.2878E-05	4.6678E-14	2.1136E+11	6.4739E+20
Xe-133	7.2649E+02	3.8812E-06	1.7574E+19	3.9406E+20
Xe-133m	8.0855E-01	1.8365E-09	8.3157E+15	1.2402E+19
Cs-134	3.5648E+01	2.7552E-05	1.2382E+20	7.3849E+18
Cs-136	3.2684E+00	4.4595E-08	1.9747E+17	1.8857E+18
Cs-137	2.8230E+01	3.2455E-04	1.4266E+21	5.7554E+18

DW Transport Group Inventory:

Time (h) = 555.0000	Atmosphere	Sump	
Noble gases (atoms)	1.7582E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5517E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.3193E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.3193E-08
Total I (Ci)			3.7451E+02

DW to WW Transport Group Inventory:

Time (h) = 555.0000 Leakage Transport

Noble gases (atoms)	2.8662E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0010E+01

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WW to DW Transport Group Inventory:

Time (h) = 555.0000 Leakage Transport

Noble gases (atoms)	2.8666E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0060E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 555.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4619E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7427E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 555.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2258E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6662E-05	6.1469E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 555.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0338E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1842E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 555.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0338E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1842E-05

EAB Doses:

Time (h) = 560.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8333E-07	1.6374E-03	6.0784E-05
Accumulated dose (rem)	9.4000E-03	5.5256E+00	1.8543E-01

LPZ Doses:

Time (h) = 560.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.7549E-09	1.2026E-05	4.4943E-07
Accumulated dose (rem)	9.5256E-04	3.6211E-01	1.2485E-02

CR Doses:

Time (h) = 560.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.6060E-08	1.2160E-04	4.4720E-06
Accumulated dose (rem)	7.6213E-04	2.5064E+00	8.0470E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	1.5279E-01	1.8778E-09	1.3149E+16	6.4680E+16
I-131	3.6719E+02	2.9619E-06	1.3616E+19	4.0994E+20
I-133	4.4683E-05	3.9445E-14	1.7860E+11	6.4739E+20
Xe-133	7.0554E+02	3.7693E-06	1.7067E+19	3.9454E+20
Xe-133m	7.5651E-01	1.7184E-09	7.7806E+15	1.2402E+19
Cs-134	3.5579E+01	2.7499E-05	1.2358E+20	7.4086E+18
Cs-136	3.2269E+00	4.4029E-08	1.9496E+17	1.8879E+18
Cs-137	2.8180E+01	3.2397E-04	1.4241E+21	5.7742E+18

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DW Transport Group Inventory:

Time (h) = 560.0000	Atmosphere	Sump	
Noble gases (atoms)	1.7075E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5448E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			4.2349E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			4.2349E-08
Total I (Ci)			3.6719E+02

DW to WW Transport Group Inventory:

Time (h) = 560.0000 Leakage Transport

Noble gases (atoms)	2.8694E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0076E+01

WW to DW Transport Group Inventory:

Time (h) = 560.0000 Leakage Transport

Noble gases (atoms)	2.8698E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0127E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 560.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4643E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7475E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 560.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2279E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6693E-05	6.1586E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 560.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0395E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1959E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 560.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0395E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.1959E-05

EAB Doses:

Time (h) = 565.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6767E-07	1.6056E-03	5.9780E-05
Accumulated dose (rem)	9.4008E-03	5.5272E+00	1.8549E-01

LPZ Doses:

Time (h) = 565.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.5799E-09	1.1792E-05	4.4200E-07
Accumulated dose (rem)	9.5257E-04	3.6212E-01	1.2485E-02

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CR Doses:

Time (h) = 565.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.5630E-08	1.1924E-04	4.3982E-06
Accumulated dose (rem)	7.6214E-04	2.5065E+00	8.0475E-02

DW Compartment Nuclide Inventory:

Time (h) = 565.0000	Ci	kg	Atoms	Decay
Rb-86	1.5134E-01	1.8600E-09	1.3025E+16	6.4781E+16
I-131	3.6002E+02	2.9040E-06	1.3350E+19	4.1019E+20
I-133	3.7759E-05	3.3332E-14	1.5092E+11	6.4739E+20
Xe-133	6.8519E+02	3.6605E-06	1.6575E+19	3.9500E+20
Xe-133m	7.0783E-01	1.6078E-09	7.2799E+15	1.2403E+19
Cs-134	3.5509E+01	2.7445E-05	1.2334E+20	7.4323E+18
Cs-136	3.1859E+00	4.3470E-08	1.9249E+17	1.8900E+18
Cs-137	2.8130E+01	3.2340E-04	1.4216E+21	5.7929E+18

DW Transport Group Inventory:

Time (h) = 565.0000	Atmosphere	Sump
Noble gases (atoms)	1.6582E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5379E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.1522E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.1522E-08
Total I (Ci)		3.6002E+02

DW to WW Transport Group Inventory:

Time (h) = 565.0000 Leakage Transport

Noble gases (atoms)	2.8726E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0142E+01

WW to DW Transport Group Inventory:

Time (h) = 565.0000 Leakage Transport

Noble gases (atoms)	2.8730E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0193E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 565.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4665E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7523E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 565.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2300E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6725E-05	6.1702E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 565.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0451E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2076E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 565.0000		
Noble gases (atoms)	0.0000E+00	6.0451E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2076E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 570.0000			
Delta dose (rem)	7.5240E-07	1.5744E-03	5.8795E-05
Accumulated dose (rem)	9.4016E-03	5.5288E+00	1.8555E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 570.0000			
Delta dose (rem)	8.4091E-09	1.1563E-05	4.3470E-07
Accumulated dose (rem)	9.5258E-04	3.6213E-01	1.2485E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 570.0000			
Delta dose (rem)	1.5212E-08	1.1692E-04	4.3257E-06
Accumulated dose (rem)	7.6216E-04	2.5066E+00	8.0479E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 570.0000				
Rb-86	1.4991E-01	1.8424E-09	1.2902E+16	6.4881E+16
I-131	3.5299E+02	2.8473E-06	1.3089E+19	4.1042E+20
I-133	3.1907E-05	2.8166E-14	1.2754E+11	6.4739E+20
Xe-133	6.6543E+02	3.5550E-06	1.6097E+19	3.9545E+20
Xe-133m	6.6228E-01	1.5043E-09	6.8114E+15	1.2403E+19
Cs-134	3.5440E+01	2.7392E-05	1.2310E+20	7.4559E+18
Cs-136	3.1455E+00	4.2918E-08	1.9004E+17	1.8921E+18
Cs-137	2.8080E+01	3.2283E-04	1.4190E+21	5.8117E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 570.0000		
Noble gases (atoms)	1.6103E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5311E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		4.0711E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		4.0711E-08
Total I (Ci)		3.5299E+02

DW to WW Transport Group Inventory:

Time (h) = 570.0000 Leakage Transport

Noble gases (atoms)	2.8756E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0208E+01

WW to DW Transport Group Inventory:

Time (h) = 570.0000 Leakage Transport

Noble gases (atoms)	2.8760E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0259E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 570.0000		
Noble gases (atoms)	0.0000E+00	2.4688E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7570E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

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	Pathway	
	Filtered	Transported
Time (h) = 570.0000		
Noble gases (atoms)	0.0000E+00	2.2320E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6756E-05	6.1818E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 570.0000		
Noble gases (atoms)	0.0000E+00	6.0505E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2193E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
	Filtered	Transported
Time (h) = 570.0000		
Noble gases (atoms)	0.0000E+00	6.0505E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2193E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 575.0000			
Delta dose (rem)	7.3750E-07	1.5438E-03	5.7829E-05
Accumulated dose (rem)	9.4023E-03	5.5304E+00	1.8561E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 575.0000			
Delta dose (rem)	8.2427E-09	1.1339E-05	4.2755E-07
Accumulated dose (rem)	9.5259E-04	3.6215E-01	1.2486E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 575.0000			
Delta dose (rem)	1.4807E-08	1.1465E-04	4.2547E-06
Accumulated dose (rem)	7.6217E-04	2.5067E+00	8.0483E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 575.0000				
Rb-86	1.4850E-01	1.8250E-09	1.2780E+16	6.4981E+16
I-131	3.4610E+02	2.7917E-06	1.2834E+19	4.1066E+20
I-133	2.6963E-05	2.3802E-14	1.0777E+11	6.4739E+20
Xe-133	6.4623E+02	3.4524E-06	1.5632E+19	3.9588E+20
Xe-133m	6.1966E-01	1.4075E-09	6.3731E+15	1.2404E+19
Cs-134	3.5371E+01	2.7338E-05	1.2286E+20	7.4795E+18
Cs-136	3.1055E+00	4.2372E-08	1.8763E+17	1.8942E+18
Cs-137	2.8030E+01	3.2225E-04	1.4165E+21	5.8303E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 575.0000		
Noble gases (atoms)	1.5639E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5243E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.9916E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.9916E-08
Total I (Ci)		3.4610E+02

DW to WW Transport Group Inventory:

Time (h) = 575.0000 Leakage Transport

Noble gases (atoms)	2.8786E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0274E+01

WW to DW Transport Group Inventory:

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Time (h) = 575.0000 Leakage Transport

Noble gases (atoms)	2.8790E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0325E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 575.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4709E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7618E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 575.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2339E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6788E-05	6.1935E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 575.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0558E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2310E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 575.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0558E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2310E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 580.0000			
Delta dose (rem)	7.2297E-07	1.5138E-03	5.6881E-05
Accumulated dose (rem)	9.4030E-03	5.5319E+00	1.8566E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 580.0000			
Delta dose (rem)	8.0803E-09	1.1118E-05	4.2054E-07
Accumulated dose (rem)	9.5260E-04	3.6216E-01	1.2486E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 580.0000			
Delta dose (rem)	1.4412E-08	1.1243E-04	4.1850E-06
Accumulated dose (rem)	7.6219E-04	2.5068E+00	8.0487E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 580.0000				
Rb-86	1.4709E-01	1.8078E-09	1.2659E+16	6.5079E+16
I-131	3.3934E+02	2.7372E-06	1.2583E+19	4.1088E+20
I-133	2.2784E-05	2.0113E-14	9.1070E+10	6.4739E+20
Xe-133	6.2760E+02	3.3529E-06	1.5182E+19	3.9631E+20
Xe-133m	5.7978E-01	1.3169E-09	5.9630E+15	1.2404E+19
Cs-134	3.5302E+01	2.7285E-05	1.2262E+20	7.5030E+18
Cs-136	3.0661E+00	4.1834E-08	1.8524E+17	1.8963E+18
Cs-137	2.7980E+01	3.2168E-04	1.4140E+21	5.8490E+18

DW Transport Group Inventory:

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Time (h) = 580.0000	Atmosphere	Sump	
Noble gases (atoms)	1.5187E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5175E-04	4.5513E+00	
Dose Effective (Ci/cc)	I-131 (Thyroid)		3.9137E-08
Dose Effective (Ci/cc)	I-131 (ICRP2 Thyroid)		3.9137E-08
Total I (Ci)			3.3934E+02

DW to WW Transport Group Inventory:

Time (h) = 580.0000 Leakage Transport

Noble gases (atoms)	2.8815E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0340E+01

WW to DW Transport Group Inventory:

Time (h) = 580.0000 Leakage Transport

Noble gases (atoms)	2.8819E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0391E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 580.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4730E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7666E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 580.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2358E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6819E-05	6.2051E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 580.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0609E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2427E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 580.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0609E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2427E-05

EAB Doses:

Time (h) = 585.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0881E-07	1.4844E-03	5.5952E-05
Accumulated dose (rem)	9.4037E-03	5.5334E+00	1.8572E-01

LPZ Doses:

Time (h) = 585.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.9220E-09	1.0903E-05	4.1366E-07
Accumulated dose (rem)	9.5260E-04	3.6217E-01	1.2487E-02

CR Doses:

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Time (h) = 585.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.4029E-08	1.1024E-04	4.1167E-06
Accumulated dose (rem)	7.6220E-04	2.5069E+00	8.0492E-02

DW Compartment Nuclide Inventory:

Time (h) = 585.0000	Ci	kg	Atoms	Decay
Rb-86	1.4570E-01	1.7907E-09	1.2539E+16	6.5177E+16
I-131	3.3271E+02	2.6837E-06	1.2337E+19	4.1111E+20
I-133	1.9253E-05	1.6996E-14	7.6957E+10	6.4739E+20
Xe-133	6.0949E+02	3.2562E-06	1.4744E+19	3.9672E+20
Xe-133m	5.4247E-01	1.2322E-09	5.5792E+15	1.2404E+19
Cs-134	3.5233E+01	2.7232E-05	1.2238E+20	7.5265E+18
Cs-136	3.0271E+00	4.1303E-08	1.8289E+17	1.8983E+18
Cs-137	2.7931E+01	3.2111E-04	1.4115E+21	5.8676E+18

DW Transport Group Inventory:

Time (h) = 585.0000	Atmosphere	Sump	
Noble gases (atoms)	1.4749E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.5107E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.8373E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.8373E-08
Total I (Ci)			3.3271E+02

DW to WW Transport Group Inventory:

Time (h) = 585.0000 Leakage Transport

Noble gases (atoms)	2.8843E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0406E+01

WW to DW Transport Group Inventory:

Time (h) = 585.0000 Leakage Transport

Noble gases (atoms)	2.8847E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0456E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 585.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4750E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7713E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 585.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2377E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6851E-05	6.2166E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 585.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0659E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2543E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 585.0000	Filtered	Transported

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Noble gases (atoms)	0.0000E+00	6.0659E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2543E-05

EAB Doses:

Time (h) = 590.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9499E-07	1.4556E-03	5.5041E-05
Accumulated dose (rem)	9.4044E-03	5.5348E+00	1.8577E-01

LPZ Doses:

Time (h) = 590.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.7675E-09	1.0691E-05	4.0691E-07
Accumulated dose (rem)	9.5261E-04	3.6218E-01	1.2487E-02

CR Doses:

Time (h) = 590.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3656E-08	1.0810E-04	4.0496E-06
Accumulated dose (rem)	7.6222E-04	2.5070E+00	8.0496E-02

DW Compartment Nuclide Inventory:

Time (h) = 590.0000	Ci	kg	Atoms	Decay
Rb-86	1.4432E-01	1.7737E-09	1.2421E+16	6.5273E+16
I-131	3.2622E+02	2.6313E-06	1.2096E+19	4.1133E+20
I-133	1.6270E-05	1.4362E-14	6.5031E+10	6.4739E+20
Xe-133	5.9191E+02	3.1622E-06	1.4318E+19	3.9712E+20
Xe-133m	5.0756E-01	1.1529E-09	5.2202E+15	1.2405E+19
Cs-134	3.5164E+01	2.7178E-05	1.2214E+20	7.5499E+18
Cs-136	2.9887E+00	4.0778E-08	1.8057E+17	1.9003E+18
Cs-137	2.7881E+01	3.2054E-04	1.4090E+21	5.8862E+18

DW Transport Group Inventory:

Time (h) = 590.0000	Atmosphere	Sump
Noble gases (atoms)	1.4324E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.5040E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.7623E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.7623E-08
Total I (Ci)		3.2622E+02

DW to WW Transport Group Inventory:

Time (h) = 590.0000 Leakage Transport

Noble gases (atoms)	2.8870E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0471E+01

WW to DW Transport Group Inventory:

Time (h) = 590.0000 Leakage Transport

Noble gases (atoms)	2.8874E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0522E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 590.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.4770E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.7761E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 590.0000	Filtered Transported

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Noble gases (atoms)	0.0000E+00	2.2394E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6882E-05	6.2282E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 590.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0707E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2659E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 590.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0707E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2659E-05

EAB Doses:

Time (h) = 595.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.8151E-07	1.4274E-03	5.4147E-05
Accumulated dose (rem)	9.4051E-03	5.5362E+00	1.8583E-01

LPZ Doses:

Time (h) = 595.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.6169E-09	1.0483E-05	4.0029E-07
Accumulated dose (rem)	9.5262E-04	3.6219E-01	1.2487E-02

CR Doses:

Time (h) = 595.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.3294E-08	1.0600E-04	3.9839E-06
Accumulated dose (rem)	7.6223E-04	2.5071E+00	8.0500E-02

DW Compartment Nuclide Inventory:

Time (h) = 595.0000	Ci	kg	Atoms	Decay
Rb-86	1.4296E-01	1.7570E-09	1.2303E+16	6.5369E+16
I-131	3.1985E+02	2.5799E-06	1.1860E+19	4.1154E+20
I-133	1.3748E-05	1.2137E-14	5.4953E+10	6.4739E+20
Xe-133	5.7484E+02	3.0710E-06	1.3905E+19	3.9751E+20
Xe-133m	4.7490E-01	1.0787E-09	4.8843E+15	1.2405E+19
Cs-134	3.5096E+01	2.7125E-05	1.2191E+20	7.5733E+18
Cs-136	2.9507E+00	4.0260E-08	1.7827E+17	1.9023E+18
Cs-137	2.7832E+01	3.1997E-04	1.4065E+21	5.9047E+18

DW Transport Group Inventory:

Time (h) = 595.0000	Atmosphere	Sump	
Noble gases (atoms)	1.3910E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4972E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.6889E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.6889E-08
Total I (Ci)			3.1985E+02

DW to WW Transport Group Inventory:

Time (h) = 595.0000 Leakage Transport

Noble gases (atoms)	2.8897E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0537E+01

WW to DW Transport Group Inventory:

Time (h) = 595.0000 Leakage Transport

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Noble gases (atoms)	2.8901E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0587E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 595.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4789E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7808E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 595.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2412E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6913E-05	6.2397E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 595.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0754E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2775E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 595.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0754E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2775E-05

EAB Doses:

Time (h) = 600.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6837E-07	1.3996E-03	5.3270E-05
Accumulated dose (rem)	9.4058E-03	5.5376E+00	1.8588E-01

LPZ Doses:

Time (h) = 600.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4700E-09	1.0280E-05	3.9380E-07
Accumulated dose (rem)	9.5263E-04	3.6220E-01	1.2488E-02

CR Doses:

Time (h) = 600.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2942E-08	1.0394E-04	3.9194E-06
Accumulated dose (rem)	7.6224E-04	2.5072E+00	8.0503E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Rb-86	1.4161E-01	1.7404E-09	1.2187E+16	6.5463E+16
I-131	3.1360E+02	2.5296E-06	1.1629E+19	4.1175E+20
I-133	1.1618E-05	1.0256E-14	4.6437E+10	6.4739E+20
Xe-133	5.5826E+02	2.9824E-06	1.3504E+19	3.9789E+20
Xe-133m	4.4434E-01	1.0093E-09	4.5699E+15	1.2405E+19
Cs-134	3.5027E+01	2.7073E-05	1.2167E+20	7.5967E+18
Cs-136	2.9132E+00	3.9749E-08	1.7601E+17	1.9042E+18
Cs-137	2.7783E+01	3.1941E-04	1.4040E+21	5.9232E+18

DW Transport Group Inventory:

Time (h) = 600.0000	Atmosphere	Sump
Noble gases (atoms)	1.3509E+19	0.0000E+00

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Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4905E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.6168E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.6168E-08
Total I (Ci)			3.1360E+02

DW to WW Transport Group Inventory:
Time (h) = 600.0000 Leakage Transport

Noble gases (atoms)	2.8922E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0602E+01

WW to DW Transport Group Inventory:
Time (h) = 600.0000 Leakage Transport

Noble gases (atoms)	2.8926E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0653E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 600.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4808E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7855E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 600.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2428E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6944E-05	6.2512E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 600.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0799E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2891E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 600.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0799E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.2891E-05

EAB Doses:

Time (h) = 605.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5554E-07	1.3725E-03	5.2410E-05
Accumulated dose (rem)	9.4064E-03	5.5390E+00	1.8593E-01

LPZ Doses:

Time (h) = 605.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.3267E-09	1.0080E-05	3.8744E-07
Accumulated dose (rem)	9.5263E-04	3.6221E-01	1.2488E-02

CR Doses:

Time (h) = 605.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem) 1.2600E-08 1.0193E-04 3.8562E-06
 Accumulated dose (rem) 7.6225E-04 2.5074E+00 8.0507E-02

DW Compartment Nuclide Inventory:

Time (h) = 605.0000	Ci	kg	Atoms	Decay
Rb-86	1.4027E-01	1.7239E-09	1.2072E+16	6.5557E+16
I-131	3.0748E+02	2.4802E-06	1.1401E+19	4.1196E+20
I-133	9.8174E-06	8.6664E-15	3.9241E+10	6.4739E+20
Xe-133	5.4215E+02	2.8964E-06	1.3115E+19	3.9825E+20
Xe-133m	4.1575E-01	9.4433E-10	4.2759E+15	1.2406E+19
Cs-134	3.4959E+01	2.7020E-05	1.2143E+20	7.6200E+18
Cs-136	2.8762E+00	3.9244E-08	1.7377E+17	1.9062E+18
Cs-137	2.7733E+01	3.1884E-04	1.4015E+21	5.9417E+18

DW Transport Group Inventory:

Time (h) = 605.0000	Atmosphere	Sump
Noble gases (atoms)	1.3119E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4838E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.5462E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.5462E-08
Total I (Ci)		3.0748E+02

DW to WW Transport Group Inventory:

Time (h) = 605.0000 Leakage Transport

Noble gases (atoms)	2.8947E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0667E+01

WW to DW Transport Group Inventory:

Time (h) = 605.0000 Leakage Transport

Noble gases (atoms)	2.8951E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0718E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 605.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4826E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7902E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 605.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2445E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.6975E-05	6.2627E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 605.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0844E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3006E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 605.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0844E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3006E-05

EAB Doses:

Time (h) = 610.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4304E-07	1.3458E-03	5.1567E-05
Accumulated dose (rem)	9.4071E-03	5.5404E+00	1.8599E-01

LPZ Doses:

Time (h) = 610.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.1869E-09	9.8845E-06	3.8120E-07
Accumulated dose (rem)	9.5264E-04	3.6222E-01	1.2489E-02

CR Doses:

Time (h) = 610.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.2267E-08	9.9949E-05	3.7941E-06
Accumulated dose (rem)	7.6227E-04	2.5075E+00	8.0511E-02

DW Compartment Nuclide Inventory:

Time (h) = 610.0000	Ci	kg	Atoms	Decay
Rb-86	1.3894E-01	1.7076E-09	1.1958E+16	6.5650E+16
I-131	3.0147E+02	2.4317E-06	1.1179E+19	4.1216E+20
I-133	8.2960E-06	7.3234E-15	3.3160E+10	6.4739E+20
Xe-133	5.2651E+02	2.8129E-06	1.2736E+19	3.9861E+20
Xe-133m	3.8899E-01	8.8356E-10	4.0007E+15	1.2406E+19
Cs-134	3.4891E+01	2.6967E-05	1.2119E+20	7.6432E+18
Cs-136	2.8397E+00	3.8745E-08	1.7157E+17	1.9081E+18
Cs-137	2.7684E+01	3.1828E-04	1.3991E+21	5.9602E+18

DW Transport Group Inventory:

Time (h) = 610.0000	Atmosphere	Sump
Noble gases (atoms)	1.2740E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4772E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.4769E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.4769E-08
Total I (Ci)		3.0147E+02

DW to WW Transport Group Inventory:

Time (h) = 610.0000 Leakage Transport

Noble gases (atoms)	2.8972E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0732E+01

WW to DW Transport Group Inventory:

Time (h) = 610.0000 Leakage Transport

Noble gases (atoms)	2.8975E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0783E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 610.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.4843E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.7949E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 610.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2461E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00

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Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7007E-05	6.2742E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 610.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0887E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3122E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 610.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0887E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3122E-05

EAB Doses:

Time (h) = 615.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.3083E-07	1.3197E-03	5.0740E-05
Accumulated dose (rem)	9.4077E-03	5.5417E+00	1.8604E-01

LPZ Doses:

Time (h) = 615.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0505E-09	9.6927E-06	3.7508E-07
Accumulated dose (rem)	9.5265E-04	3.6223E-01	1.2489E-02

CR Doses:

Time (h) = 615.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1944E-08	9.8009E-05	3.7333E-06
Accumulated dose (rem)	7.6228E-04	2.5075E+00	8.0515E-02

DW Compartment Nuclide Inventory:

Time (h) = 615.0000	Ci	kg	Atoms	Decay
Rb-86	1.3763E-01	1.6915E-09	1.1844E+16	6.5742E+16
I-131	2.9559E+02	2.3842E-06	1.0960E+19	4.1236E+20
I-133	7.0104E-06	6.1885E-15	2.8021E+10	6.4739E+20
Xe-133	5.1133E+02	2.7317E-06	1.2369E+19	3.9895E+20
Xe-133m	3.6396E-01	8.2670E-10	3.7432E+15	1.2406E+19
Cs-134	3.4823E+01	2.6915E-05	1.2096E+20	7.6664E+18
Cs-136	2.8036E+00	3.8253E-08	1.6939E+17	1.9099E+18
Cs-137	2.7635E+01	3.1771E-04	1.3966E+21	5.9786E+18

DW Transport Group Inventory:

Time (h) = 615.0000	Atmosphere	Sump	
Noble gases (atoms)	1.2373E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4705E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.4090E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.4090E-08
Total I (Ci)			2.9559E+02

DW to WW Transport Group Inventory:

Time (h) = 615.0000 Leakage Transport

Noble gases (atoms)	2.8995E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0797E+01

WW to DW Transport Group Inventory:

Time (h) = 615.0000 Leakage Transport

Noble gases (atoms)	2.8999E+24
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.0848E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 615.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4860E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.7996E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 615.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2476E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7038E-05	6.2856E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 615.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0928E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3237E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 615.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0928E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3237E-05

EAB Doses:

Time (h) = 620.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1893E-07	1.2941E-03	4.9928E-05
Accumulated dose (rem)	9.4083E-03	5.5430E+00	1.8609E-01

LPZ Doses:

Time (h) = 620.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9175E-09	9.5046E-06	3.6907E-07
Accumulated dose (rem)	9.5266E-04	3.6224E-01	1.2489E-02

CR Doses:

Time (h) = 620.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1630E-08	9.6107E-05	3.6736E-06
Accumulated dose (rem)	7.6229E-04	2.5076E+00	8.0519E-02

DW Compartment Nuclide Inventory:

Time (h) = 620.0000	Ci	kg	Atoms	Decay
Rb-86	1.3633E-01	1.6755E-09	1.1732E+16	6.5834E+16
I-131	2.8981E+02	2.3377E-06	1.0746E+19	4.1256E+20
I-133	5.9240E-06	5.2295E-15	2.3679E+10	6.4739E+20
Xe-133	4.9657E+02	2.6529E-06	1.2012E+19	3.9929E+20
Xe-133m	3.4054E-01	7.7350E-10	3.5024E+15	1.2406E+19
Cs-134	3.4755E+01	2.6862E-05	1.2072E+20	7.6896E+18
Cs-136	2.7680E+00	3.7767E-08	1.6723E+17	1.9118E+18
Cs-137	2.7586E+01	3.1715E-04	1.3941E+21	5.9970E+18

DW Transport Group Inventory:

Time (h) = 620.0000	Atmosphere	Sump
Noble gases (atoms)	1.2016E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg)	3.4639E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.3425E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.3425E-08
Total I (Ci)			2.8981E+02

DW to WW Transport Group Inventory:
Time (h) = 620.0000 Leakage Transport

Noble gases (atoms)	2.9018E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0862E+01

WW to DW Transport Group Inventory:
Time (h) = 620.0000 Leakage Transport

Noble gases (atoms)	2.9022E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0913E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 620.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4877E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8043E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 620.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2491E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7069E-05	6.2970E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 620.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0969E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3352E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 620.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.0969E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3352E-05

EAB Doses:

Time (h) = 625.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.0732E-07	1.2690E-03	4.9133E-05
Accumulated dose (rem)	9.4089E-03	5.5442E+00	1.8614E-01

LPZ Doses:

Time (h) = 625.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.7877E-09	9.3202E-06	3.6318E-07
Accumulated dose (rem)	9.5266E-04	3.6225E-01	1.2490E-02

CR Doses:

Time (h) = 625.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1325E-08	9.4242E-05	3.6151E-06
Accumulated dose (rem)	7.6230E-04	2.5077E+00	8.0522E-02

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DW Compartment Nuclide Inventory:

Time (h) = 625.0000	Ci	kg	Atoms	Decay
Rb-86	1.3504E-01	1.6596E-09	1.1622E+16	6.5924E+16
I-131	2.8415E+02	2.2920E-06	1.0537E+19	4.1275E+20
I-133	5.0059E-06	4.4191E-15	2.0009E+10	6.4739E+20
Xe-133	4.8225E+02	2.5764E-06	1.1666E+19	3.9962E+20
Xe-133m	3.1862E-01	7.2372E-10	3.2770E+15	1.2407E+19
Cs-134	3.4687E+01	2.6810E-05	1.2049E+20	7.7127E+18
Cs-136	2.7328E+00	3.7288E-08	1.6511E+17	1.9136E+18
Cs-137	2.7537E+01	3.1659E-04	1.3916E+21	6.0153E+18

DW Transport Group Inventory:

Time (h) = 625.0000	Atmosphere	Sump
Noble gases (atoms)	1.1669E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4573E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2772E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.2772E-08
Total I (Ci)		2.8415E+02

DW to WW Transport Group Inventory:

Time (h) = 625.0000 Leakage Transport

Noble gases (atoms)	2.9040E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0926E+01

WW to DW Transport Group Inventory:

Time (h) = 625.0000 Leakage Transport

Noble gases (atoms)	2.9044E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0977E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 625.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4893E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8090E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 625.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2505E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7099E-05	6.3084E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 625.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1008E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3466E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 625.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1008E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3466E-05

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EAB Doses:

Time (h) = 630.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9599E-07	1.2444E-03	4.8352E-05
Accumulated dose (rem)	9.4095E-03	5.5455E+00	1.8618E-01

LPZ Doses:

Time (h) = 630.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.6611E-09	9.1394E-06	3.5741E-07
Accumulated dose (rem)	9.5267E-04	3.6226E-01	1.2490E-02

CR Doses:

Time (h) = 630.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.1028E-08	9.2414E-05	3.5577E-06
Accumulated dose (rem)	7.6231E-04	2.5078E+00	8.0526E-02

DW Compartment Nuclide Inventory:

Time (h) = 630.0000	Ci	kg	Atoms	Decay
Rb-86	1.3376E-01	1.6439E-09	1.1512E+16	6.6013E+16
I-131	2.7860E+02	2.2473E-06	1.0331E+19	4.1294E+20
I-133	4.2302E-06	3.7342E-15	1.6908E+10	6.4739E+20
Xe-133	4.6834E+02	2.5020E-06	1.1329E+19	3.9993E+20
Xe-133m	2.9812E-01	6.7715E-10	3.0661E+15	1.2407E+19
Cs-134	3.4619E+01	2.6757E-05	1.2025E+20	7.7358E+18
Cs-136	2.6981E+00	3.6814E-08	1.6301E+17	1.9154E+18
Cs-137	2.7489E+01	3.1603E-04	1.3892E+21	6.0337E+18

DW Transport Group Inventory:

Time (h) = 630.0000	Atmosphere	Sump
Noble gases (atoms)	1.1332E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4507E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.2132E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.2132E-08
Total I (Ci)		2.7860E+02

DW to WW Transport Group Inventory:

Time (h) = 630.0000 Leakage Transport

Noble gases (atoms)	2.9062E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.0991E+01

WW to DW Transport Group Inventory:

Time (h) = 630.0000 Leakage Transport

Noble gases (atoms)	2.9066E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1042E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 630.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4908E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8137E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 630.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2519E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7130E-05	6.3198E-06

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DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 630.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1046E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3580E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 630.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1046E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3580E-05

EAB Doses:

Time (h) = 635.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8494E-07	1.2202E-03	4.7587E-05
Accumulated dose (rem)	9.4101E-03	5.5467E+00	1.8623E-01

LPZ Doses:

Time (h) = 635.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.5376E-09	8.9621E-06	3.5174E-07
Accumulated dose (rem)	9.5268E-04	3.6227E-01	1.2490E-02

CR Doses:

Time (h) = 635.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0740E-08	9.0621E-05	3.5013E-06
Accumulated dose (rem)	7.6232E-04	2.5079E+00	8.0529E-02

DW Compartment Nuclide Inventory:

Time (h) = 635.0000	Ci	kg	Atoms	Decay
Rb-86	1.3250E-01	1.6284E-09	1.1403E+16	6.6102E+16
I-131	2.7316E+02	2.2034E-06	1.0129E+19	4.1312E+20
I-133	3.5746E-06	3.1555E-15	1.4288E+10	6.4739E+20
Xe-133	4.5482E+02	2.4299E-06	1.1002E+19	4.0024E+20
Xe-133m	2.7893E-01	6.3358E-10	2.8688E+15	1.2407E+19
Cs-134	3.4552E+01	2.6705E-05	1.2002E+20	7.7588E+18
Cs-136	2.6639E+00	3.6346E-08	1.6094E+17	1.9172E+18
Cs-137	2.7440E+01	3.1547E-04	1.3867E+21	6.0519E+18

DW Transport Group Inventory:

Time (h) = 635.0000	Atmosphere	Sump	
Noble gases (atoms)	1.1005E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4441E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.1505E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			3.1505E-08
Total I (Ci)			2.7316E+02

DW to WW Transport Group Inventory:

Time (h) = 635.0000 Leakage Transport

Noble gases (atoms)	2.9083E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1055E+01

WW to DW Transport Group Inventory:

Time (h) = 635.0000 Leakage Transport

Noble gases (atoms)	2.9086E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1106E+01

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DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 635.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4924E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8183E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 635.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2533E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7161E-05	6.3311E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 635.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1083E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3695E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 635.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1083E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3695E-05

EAB Doses:

Time (h) = 640.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7416E-07	1.1966E-03	4.6836E-05
Accumulated dose (rem)	9.4107E-03	5.5479E+00	1.8628E-01

LPZ Doses:

Time (h) = 640.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.4171E-09	8.7882E-06	3.4619E-07
Accumulated dose (rem)	9.5268E-04	3.6228E-01	1.2491E-02

CR Doses:

Time (h) = 640.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0459E-08	8.8863E-05	3.4461E-06
Accumulated dose (rem)	7.6233E-04	2.5080E+00	8.0533E-02

DW Compartment Nuclide Inventory:

Time (h) = 640.0000	Ci	kg	Atoms	Decay
Rb-86	1.3125E-01	1.6130E-09	1.1295E+16	6.6190E+16
I-131	2.6783E+02	2.1604E-06	9.9313E+18	4.1330E+20
I-133	3.0207E-06	2.6665E-15	1.2074E+10	6.4739E+20
Xe-133	4.4170E+02	2.3597E-06	1.0685E+19	4.0054E+20
Xe-133m	2.6098E-01	5.9280E-10	2.6842E+15	1.2407E+19
Cs-134	3.4485E+01	2.6653E-05	1.1978E+20	7.7818E+18
Cs-136	2.6300E+00	3.5885E-08	1.5890E+17	1.9190E+18
Cs-137	2.7391E+01	3.1491E-04	1.3842E+21	6.0702E+18

DW Transport Group Inventory:

Time (h) = 640.0000	Atmosphere	Sump	
Noble gases (atoms)	1.0687E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4376E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			3.0889E-08

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Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid) 3.0889E-08
 Total I (Ci) 2.6783E+02

DW to WW Transport Group Inventory:
 Time (h) = 640.0000 Leakage Transport

Noble gases (atoms) 2.9103E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.1120E+01

WW to DW Transport Group Inventory:
 Time (h) = 640.0000 Leakage Transport

Noble gases (atoms) 2.9107E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.1171E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 640.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4938E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8230E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 640.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2546E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7192E-05	6.3425E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 640.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1119E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3809E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 640.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1119E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3809E-05

EAB Doses:

Time (h) = 645.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.6364E-07	1.1734E-03	4.6099E-05
Accumulated dose (rem)	9.4112E-03	5.5491E+00	1.8633E-01

LPZ Doses:

Time (h) = 645.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.2995E-09	8.6178E-06	3.4074E-07
Accumulated dose (rem)	9.5269E-04	3.6228E-01	1.2491E-02

CR Doses:

Time (h) = 645.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	1.0187E-08	8.7139E-05	3.3919E-06
Accumulated dose (rem)	7.6234E-04	2.5081E+00	8.0536E-02

DW Compartment Nuclide Inventory:

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Time (h) = 645.0000	Ci	kg	Atoms	Decay
Rb-86	1.3001E-01	1.5978E-09	1.1188E+16	6.6277E+16
I-131	2.6260E+02	2.1182E-06	9.7373E+18	4.1348E+20
I-133	2.5526E-06	2.2533E-15	1.0203E+10	6.4739E+20
Xe-133	4.2896E+02	2.2917E-06	1.0376E+19	4.0083E+20
Xe-133m	2.4419E-01	5.5465E-10	2.5114E+15	1.2407E+19
Cs-134	3.4417E+01	2.6601E-05	1.1955E+20	7.8047E+18
Cs-136	2.5966E+00	3.5429E-08	1.5688E+17	1.9207E+18
Cs-137	2.7343E+01	3.1435E-04	1.3818E+21	6.0884E+18

DW Transport Group Inventory:

Time (h) = 645.0000	Atmosphere	Sump
Noble gases (atoms)	1.0379E+19	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4311E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		3.0286E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		3.0286E-08
Total I (Ci)		2.6260E+02

DW to WW Transport Group Inventory:

Time (h) = 645.0000 Leakage Transport

Noble gases (atoms)	2.9123E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1184E+01

WW to DW Transport Group Inventory:

Time (h) = 645.0000 Leakage Transport

Noble gases (atoms)	2.9127E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1235E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 645.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4953E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8276E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 645.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2559E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7222E-05	6.3538E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 645.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1154E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3922E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 645.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1154E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.3922E-05

EAB Doses:

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Time (h) = 650.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5337E-07	1.1506E-03	4.5377E-05
Accumulated dose (rem)	9.4118E-03	5.5502E+00	1.8637E-01

LPZ Doses:

Time (h) = 650.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.1847E-09	8.4506E-06	3.3539E-07
Accumulated dose (rem)	9.5269E-04	3.6229E-01	1.2491E-02

CR Doses:

Time (h) = 650.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.9220E-09	8.5450E-05	3.3388E-06
Accumulated dose (rem)	7.6235E-04	2.5082E+00	8.0539E-02

DW Compartment Nuclide Inventory:

Time (h) = 650.0000	Ci	kg	Atoms	Decay
Rb-86	1.2878E-01	1.5827E-09	1.1082E+16	6.6363E+16
I-131	2.5747E+02	2.0768E-06	9.5472E+18	4.1365E+20
I-133	2.1570E-06	1.9041E-15	8.6217E+09	6.4739E+20
Xe-133	4.1658E+02	2.2255E-06	1.0077E+19	4.0111E+20
Xe-133m	2.2848E-01	5.1896E-10	2.3498E+15	1.2407E+19
Cs-134	3.4350E+01	2.6549E-05	1.1932E+20	7.8276E+18
Cs-136	2.5636E+00	3.4979E-08	1.5489E+17	1.9224E+18
Cs-137	2.7294E+01	3.1379E-04	1.3793E+21	6.1066E+18

DW Transport Group Inventory:

Time (h) = 650.0000	Atmosphere	Sump	
Noble gases (atoms)	1.0079E+19	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4246E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.9695E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.9695E-08
Total I (Ci)			2.5747E+02

DW to WW Transport Group Inventory:

Time (h) = 650.0000 Leakage Transport

Noble gases (atoms)	2.9142E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1248E+01

WW to DW Transport Group Inventory:

Time (h) = 650.0000 Leakage Transport

Noble gases (atoms)	2.9146E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1299E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 650.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4966E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8323E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 650.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2572E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7253E-05	6.3650E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

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	Pathway	
Time (h) = 650.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1188E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4036E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 650.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1188E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4036E-05

EAB Doses:

Time (h) = 655.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.4335E-07	1.1283E-03	4.4668E-05
Accumulated dose (rem)	9.4123E-03	5.5514E+00	1.8642E-01

LPZ Doses:

Time (h) = 655.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.0728E-09	8.2868E-06	3.3015E-07
Accumulated dose (rem)	9.5270E-04	3.6230E-01	1.2492E-02

CR Doses:

Time (h) = 655.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.6646E-09	8.3793E-05	3.2866E-06
Accumulated dose (rem)	7.6236E-04	2.5083E+00	8.0543E-02

DW Compartment Nuclide Inventory:

Time (h) = 655.0000	Ci	kg	Atoms	Decay
Rb-86	1.2756E-01	1.5677E-09	1.0978E+16	6.6448E+16
I-131	2.5244E+02	2.0362E-06	9.3607E+18	4.1382E+20
I-133	1.8227E-06	1.6090E-15	7.2856E+09	6.4739E+20
Xe-133	4.0456E+02	2.1613E-06	9.7863E+18	4.0138E+20
Xe-133m	2.1377E-01	4.8557E-10	2.1986E+15	1.2408E+19
Cs-134	3.4283E+01	2.6497E-05	1.1908E+20	7.8505E+18
Cs-136	2.5311E+00	3.4534E-08	1.5292E+17	1.9241E+18
Cs-137	2.7246E+01	3.1324E-04	1.3769E+21	6.1248E+18

DW Transport Group Inventory:

Time (h) = 655.0000	Atmosphere	Sump
Noble gases (atoms)	9.7885E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4181E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.9115E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.9115E-08
Total I (Ci)		2.5244E+02

DW to WW Transport Group Inventory:

Time (h) = 655.0000 Leakage Transport

Noble gases (atoms)	2.9160E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1312E+01

WW to DW Transport Group Inventory:

Time (h) = 655.0000 Leakage Transport

Noble gases (atoms)	2.9164E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1363E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

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	Pathway	
Time (h) = 655.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4980E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8369E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 655.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2584E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7283E-05	6.3763E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 655.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1221E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4149E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 655.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1221E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4149E-05

EAB Doses:

Time (h) = 660.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3358E-07	1.1064E-03	4.3973E-05
Accumulated dose (rem)	9.4129E-03	5.5525E+00	1.8646E-01

LPZ Doses:

Time (h) = 660.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.9635E-09	8.1261E-06	3.2501E-07
Accumulated dose (rem)	9.5271E-04	3.6231E-01	1.2492E-02

CR Doses:

Time (h) = 660.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.4144E-09	8.2168E-05	3.2355E-06
Accumulated dose (rem)	7.6237E-04	2.5083E+00	8.0546E-02

DW Compartment Nuclide Inventory:

Time (h) = 660.0000	Ci	kg	Atoms	Decay
Rb-86	1.2635E-01	1.5529E-09	1.0874E+16	6.6533E+16
I-131	2.4751E+02	1.9965E-06	9.1779E+18	4.1399E+20
I-133	1.5403E-06	1.3597E-15	6.1565E+09	6.4739E+20
Xe-133	3.9289E+02	2.0990E-06	9.5040E+18	4.0165E+20
Xe-133m	2.0002E-01	4.5432E-10	2.0571E+15	1.2408E+19
Cs-134	3.4216E+01	2.6446E-05	1.1885E+20	7.8733E+18
Cs-136	2.4989E+00	3.4096E-08	1.5098E+17	1.9258E+18
Cs-137	2.7198E+01	3.1268E-04	1.3745E+21	6.1429E+18

DW Transport Group Inventory:

Time (h) = 660.0000	Atmosphere	Sump	
Noble gases (atoms)	9.5060E+18	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.4116E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.8546E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.8546E-08
Total I (Ci)			2.4751E+02

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DW to WW Transport Group Inventory:

Time (h) = 660.0000 Leakage Transport

Noble gases (atoms)	2.9179E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1376E+01

WW to DW Transport Group Inventory:

Time (h) = 660.0000 Leakage Transport

Noble gases (atoms)	2.9182E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1427E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 660.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.4993E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8415E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 660.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2596E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7314E-05	6.3876E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 660.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1253E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4262E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 660.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1253E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4262E-05

EAB Doses:

Time (h) = 665.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2404E-07	1.0850E-03	4.3292E-05
Accumulated dose (rem)	9.4134E-03	5.5535E+00	1.8650E-01

LPZ Doses:

Time (h) = 665.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.8569E-09	7.9686E-06	3.1997E-07
Accumulated dose (rem)	9.5271E-04	3.6232E-01	1.2492E-02

CR Doses:

Time (h) = 665.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	9.1711E-09	8.0575E-05	3.1853E-06
Accumulated dose (rem)	7.6238E-04	2.5084E+00	8.0549E-02

DW Compartment Nuclide Inventory:

Time (h) = 665.0000	Ci	kg	Atoms	Decay
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Rb-86	1.2516E-01	1.5382E-09	1.0771E+16	6.6617E+16
I-131	2.4268E+02	1.9575E-06	8.9987E+18	4.1415E+20
I-133	1.3016E-06	1.1490E-15	5.2025E+09	6.4739E+20
Xe-133	3.8155E+02	2.0384E-06	9.2297E+18	4.0191E+20
Xe-133m	1.8714E-01	4.2508E-10	1.9247E+15	1.2408E+19
Cs-134	3.4150E+01	2.6394E-05	1.1862E+20	7.8961E+18
Cs-136	2.4672E+00	3.3663E-08	1.4906E+17	1.9275E+18
Cs-137	2.7149E+01	3.1213E-04	1.3720E+21	6.1610E+18

DW Transport Group Inventory:

Time (h) = 665.0000	Atmosphere	Sump
Noble gases (atoms)	9.2317E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.4051E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.7989E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7989E-08
Total I (Ci)		2.4268E+02

DW to WW Transport Group Inventory:

Time (h) = 665.0000 Leakage Transport

Noble gases (atoms)	2.9196E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1439E+01

WW to DW Transport Group Inventory:

Time (h) = 665.0000 Leakage Transport

Noble gases (atoms)	2.9200E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1490E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 665.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5006E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8461E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 665.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2607E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7344E-05	6.3988E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 665.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1284E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4375E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 665.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1284E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4375E-05

EAB Doses:

Time (h) = 670.0000	Whole Body	Thyroid	TEDE
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Delta dose (rem)	5.1473E-07	1.0639E-03	4.2623E-05
Accumulated dose (rem)	9.4139E-03	5.5546E+00	1.8654E-01

LPZ Doses:

Time (h) = 670.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.7529E-09	7.8142E-06	3.1502E-07
Accumulated dose (rem)	9.5272E-04	3.6232E-01	1.2493E-02

CR Doses:

Time (h) = 670.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.9347E-09	7.9014E-05	3.1361E-06
Accumulated dose (rem)	7.6239E-04	2.5085E+00	8.0552E-02

DW Compartment Nuclide Inventory:

Time (h) = 670.0000	Ci	kg	Atoms	Decay
Rb-86	1.2397E-01	1.5236E-09	1.0669E+16	6.6700E+16
I-131	2.3794E+02	1.9193E-06	8.8230E+18	4.1431E+20
I-133	1.0999E-06	9.7092E-16	4.3962E+09	6.4739E+20
Xe-133	3.7054E+02	1.9796E-06	8.9634E+18	4.0216E+20
Xe-133m	1.7510E-01	3.9773E-10	1.8009E+15	1.2408E+19
Cs-134	3.4083E+01	2.6343E-05	1.1839E+20	7.9188E+18
Cs-136	2.4358E+00	3.3235E-08	1.4717E+17	1.9291E+18
Cs-137	2.7101E+01	3.1157E-04	1.3696E+21	6.1791E+18

DW Transport Group Inventory:

Time (h) = 670.0000	Atmosphere	Sump
Noble gases (atoms)	8.9652E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3987E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.7442E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.7442E-08
Total I (Ci)		2.3794E+02

DW to WW Transport Group Inventory:

Time (h) = 670.0000 Leakage Transport

Noble gases (atoms)	2.9213E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1503E+01

WW to DW Transport Group Inventory:

Time (h) = 670.0000 Leakage Transport

Noble gases (atoms)	2.9217E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1554E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 670.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.5018E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.8507E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 670.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2619E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.7375E-05 6.4100E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

Pathway

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Time (h) = 670.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1315E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4488E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 670.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1315E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4488E-05

EAB Doses:

Time (h) = 675.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0565E-07	1.0433E-03	4.1967E-05
Accumulated dose (rem)	9.4144E-03	5.5557E+00	1.8659E-01

LPZ Doses:

Time (h) = 675.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.6514E-09	7.6627E-06	3.1017E-07
Accumulated dose (rem)	9.5272E-04	3.6233E-01	1.2493E-02

CR Doses:

Time (h) = 675.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.7049E-09	7.7482E-05	3.0878E-06
Accumulated dose (rem)	7.6240E-04	2.5086E+00	8.0555E-02

DW Compartment Nuclide Inventory:

Time (h) = 675.0000	Ci	kg	Atoms	Decay
Rb-86	1.2280E-01	1.5092E-09	1.0568E+16	6.6782E+16
I-131	2.3329E+02	1.8818E-06	8.6507E+18	4.1447E+20
I-133	9.2942E-07	8.2045E-16	3.7150E+09	6.4739E+20
Xe-133	3.5985E+02	1.9225E-06	8.7048E+18	4.0240E+20
Xe-133m	1.6383E-01	3.7213E-10	1.6850E+15	1.2408E+19
Cs-134	3.4017E+01	2.6291E-05	1.1816E+20	7.9414E+18
Cs-136	2.4049E+00	3.2813E-08	1.4530E+17	1.9307E+18
Cs-137	2.7053E+01	3.1102E-04	1.3672E+21	6.1971E+18

DW Transport Group Inventory:

Time (h) = 675.0000	Atmosphere	Sump
Noble gases (atoms)	8.7064E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3923E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.6906E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.6906E-08
Total I (Ci)		2.3329E+02

DW to WW Transport Group Inventory:

Time (h) = 675.0000 Leakage Transport

Noble gases (atoms)	2.9230E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1567E+01

WW to DW Transport Group Inventory:

Time (h) = 675.0000 Leakage Transport

Noble gases (atoms)	2.9234E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1617E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

Pathway

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Time (h) = 675.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5030E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8553E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 675.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2629E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7405E-05	6.4212E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 675.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1344E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4600E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 675.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1344E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4600E-05

EAB Doses:

Time (h) = 680.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.9678E-07	1.0231E-03	4.1324E-05
Accumulated dose (rem)	9.4149E-03	5.5567E+00	1.8663E-01

LPZ Doses:

Time (h) = 680.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.5523E-09	7.5142E-06	3.0541E-07
Accumulated dose (rem)	9.5273E-04	3.6234E-01	1.2493E-02

CR Doses:

Time (h) = 680.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.4816E-09	7.5981E-05	3.0405E-06
Accumulated dose (rem)	7.6241E-04	2.5087E+00	8.0558E-02

DW Compartment Nuclide Inventory:

Time (h) = 680.0000	Ci	kg	Atoms	Decay
Rb-86	1.2164E-01	1.4950E-09	1.0469E+16	6.6863E+16
I-131	2.2874E+02	1.8450E-06	8.4818E+18	4.1462E+20
I-133	7.8539E-07	6.9331E-16	3.1392E+09	6.4739E+20
Xe-133	3.4947E+02	1.8670E-06	8.4536E+18	4.0263E+20
Xe-133m	1.5329E-01	3.4818E-10	1.5766E+15	1.2408E+19
Cs-134	3.3950E+01	2.6240E-05	1.1793E+20	7.9641E+18
Cs-136	2.3743E+00	3.2396E-08	1.4345E+17	1.9323E+18
Cs-137	2.7005E+01	3.1047E-04	1.3647E+21	6.2151E+18

DW Transport Group Inventory:

Time (h) = 680.0000	Atmosphere	Sump	
Noble gases (atoms)	8.4552E+18	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.3859E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.6381E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.6381E-08
Total I (Ci)			2.2874E+02

DW to WW Transport Group Inventory:

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Time (h) = 680.0000 Leakage Transport

Noble gases (atoms)	2.9246E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1630E+01

WW to DW Transport Group Inventory:

Time (h) = 680.0000 Leakage Transport

Noble gases (atoms)	2.9250E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1681E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 680.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5042E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8599E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 680.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2640E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7435E-05	6.4323E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 680.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1373E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4712E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 680.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1373E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4712E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 685.0000			
Delta dose (rem)	4.8813E-07	1.0033E-03	4.0692E-05
Accumulated dose (rem)	9.4154E-03	5.5577E+00	1.8667E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 685.0000			
Delta dose (rem)	5.4556E-09	7.3686E-06	3.0074E-07
Accumulated dose (rem)	9.5273E-04	3.6235E-01	1.2494E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 685.0000			
Delta dose (rem)	8.2644E-09	7.4509E-05	2.9940E-06
Accumulated dose (rem)	7.6242E-04	2.5087E+00	8.0561E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 685.0000				
Rb-86	1.2049E-01	1.4808E-09	1.0370E+16	6.6944E+16
I-131	2.2427E+02	1.8090E-06	8.3161E+18	4.1477E+20

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I-133	6.6368E-07	5.8587E-16	2.6528E+09	6.4739E+20
Xe-133	3.3938E+02	1.8131E-06	8.2096E+18	4.0286E+20
Xe-133m	1.4343E-01	3.2578E-10	1.4751E+15	1.2408E+19
Cs-134	3.3884E+01	2.6189E-05	1.1770E+20	7.9867E+18
Cs-136	2.3442E+00	3.1985E-08	1.4163E+17	1.9339E+18
Cs-137	2.6958E+01	3.0992E-04	1.3623E+21	6.2331E+18

DW Transport Group Inventory:

Time (h) = 685.0000	Atmosphere	Sump
Noble gases (atoms)	8.2111E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3795E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.5866E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.5866E-08
Total I (Ci)		2.2427E+02

DW to WW Transport Group Inventory:

Time (h) = 685.0000 Leakage Transport

Noble gases (atoms)	2.9261E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1693E+01

WW to DW Transport Group Inventory:

Time (h) = 685.0000 Leakage Transport

Noble gases (atoms)	2.9265E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1744E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 685.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5053E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8645E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 685.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2650E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7465E-05	6.4435E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 685.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1400E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4824E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 685.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1400E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4824E-05

EAB Doses:

Time (h) = 690.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7968E-07	9.8385E-04	4.0073E-05
Accumulated dose (rem)	9.4159E-03	5.5587E+00	1.8671E-01

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LPZ Doses:

Time (h) = 690.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.3612E-09	7.2259E-06	2.9616E-07
Accumulated dose (rem)	9.5274E-04	3.6235E-01	1.2494E-02

CR Doses:

Time (h) = 690.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	8.0534E-09	7.3066E-05	2.9485E-06
Accumulated dose (rem)	7.6242E-04	2.5088E+00	8.0564E-02

DW Compartment Nuclide Inventory:

Time (h) = 690.0000	Ci	kg	Atoms	Decay
Rb-86	1.1935E-01	1.4668E-09	1.0271E+16	6.7024E+16
I-131	2.1989E+02	1.7737E-06	8.1537E+18	4.1492E+20
I-133	5.6083E-07	4.9508E-16	2.2417E+09	6.4739E+20
Xe-133	3.2959E+02	1.7608E-06	7.9727E+18	4.0309E+20
Xe-133m	1.3420E-01	3.0481E-10	1.3802E+15	1.2408E+19
Cs-134	3.3818E+01	2.6138E-05	1.1747E+20	8.0092E+18
Cs-136	2.3144E+00	3.1578E-08	1.3983E+17	1.9354E+18
Cs-137	2.6910E+01	3.0937E-04	1.3599E+21	6.2510E+18

DW Transport Group Inventory:

Time (h) = 690.0000	Atmosphere	Sump
Noble gases (atoms)	7.9741E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3732E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.5361E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.5361E-08
Total I (Ci)		2.1989E+02

DW to WW Transport Group Inventory:

Time (h) = 690.0000 Leakage Transport

Noble gases (atoms)	2.9277E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1756E+01

WW to DW Transport Group Inventory:

Time (h) = 690.0000 Leakage Transport

Noble gases (atoms)	2.9280E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1807E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 690.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.5064E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.8690E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 690.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2660E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.7496E-05 6.4546E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) = 690.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 6.1427E+18

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4936E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 690.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1427E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.4936E-05

EAB Doses:

Time (h) = 695.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.7144E-07	9.6479E-04	3.9466E-05
Accumulated dose (rem)	9.4164E-03	5.5596E+00	1.8675E-01

LPZ Doses:

Time (h) = 695.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.2690E-09	7.0859E-06	2.9167E-07
Accumulated dose (rem)	9.5275E-04	3.6236E-01	1.2494E-02

CR Doses:

Time (h) = 695.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.8482E-09	7.1650E-05	2.9038E-06
Accumulated dose (rem)	7.6243E-04	2.5089E+00	8.0567E-02

DW Compartment Nuclide Inventory:

Time (h) = 695.0000	Ci	kg	Atoms	Decay
Rb-86	1.1822E-01	1.4530E-09	1.0174E+16	6.7103E+16
I-131	2.1560E+02	1.7391E-06	7.9945E+18	4.1506E+20
I-133	4.7392E-07	4.1835E-16	1.8943E+09	6.4739E+20
Xe-133	3.2008E+02	1.7100E-06	7.7427E+18	4.0330E+20
Xe-133m	1.2556E-01	2.8520E-10	1.2914E+15	1.2409E+19
Cs-134	3.3752E+01	2.6087E-05	1.1724E+20	8.0317E+18
Cs-136	2.2850E+00	3.1177E-08	1.3805E+17	1.9370E+18
Cs-137	2.6862E+01	3.0882E-04	1.3575E+21	6.2689E+18

DW Transport Group Inventory:

Time (h) = 695.0000	Atmosphere	Sump
Noble gases (atoms)	7.7440E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3668E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.4865E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.4865E-08
Total I (Ci)		2.1560E+02

DW to WW Transport Group Inventory:

Time (h) = 695.0000 Leakage Transport

Noble gases (atoms)	2.9291E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1819E+01

WW to DW Transport Group Inventory:

Time (h) = 695.0000 Leakage Transport

Noble gases (atoms)	2.9295E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1870E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 695.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5075E+19

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Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8736E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 695.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2670E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7526E-05	6.4657E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 695.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1453E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5048E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 695.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1453E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5048E-05

EAB Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 700.0000			
Delta dose (rem)	4.6339E-07	9.4611E-04	3.8870E-05
Accumulated dose (rem)	9.4168E-03	5.5606E+00	1.8679E-01

LPZ Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 700.0000			
Delta dose (rem)	5.1791E-09	6.9487E-06	2.8726E-07
Accumulated dose (rem)	9.5275E-04	3.6237E-01	1.2495E-02

CR Doses:

	Whole Body	Thyroid	TEDE
Time (h) = 700.0000			
Delta dose (rem)	7.6487E-09	7.0263E-05	2.8599E-06
Accumulated dose (rem)	7.6244E-04	2.5090E+00	8.0570E-02

DW Compartment Nuclide Inventory:

	Ci	kg	Atoms	Decay
Time (h) = 700.0000				
Rb-86	1.1711E-01	1.4392E-09	1.0078E+16	6.7181E+16
I-131	2.1139E+02	1.7051E-06	7.8384E+18	4.1521E+20
I-133	4.0047E-07	3.5352E-16	1.6007E+09	6.4739E+20
Xe-133	3.1084E+02	1.6606E-06	7.5192E+18	4.0351E+20
Xe-133m	1.1748E-01	2.6684E-10	1.2083E+15	1.2409E+19
Cs-134	3.3686E+01	2.6036E-05	1.1701E+20	8.0542E+18
Cs-136	2.2560E+00	3.0781E-08	1.3630E+17	1.9385E+18
Cs-137	2.6814E+01	3.0828E-04	1.3551E+21	6.2868E+18

DW Transport Group Inventory:

	Atmosphere	Sump
Time (h) = 700.0000		
Noble gases (atoms)	7.5205E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3605E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.4380E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.4380E-08
Total I (Ci)		2.1139E+02

DW to WW Transport Group Inventory:

Time (h) = 700.0000 Leakage Transport

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Noble gases (atoms) 2.9306E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.1882E+01

WW to DW Transport Group Inventory:
 Time (h) = 700.0000 Leakage Transport

Noble gases (atoms) 2.9309E+24
 Elemental I (atoms) 0.0000E+00
 Organic I (atoms) 0.0000E+00
 Aerosols (kg) 1.1933E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 700.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5085E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8781E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 700.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2679E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7556E-05	6.4767E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 700.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1478E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5159E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 700.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1478E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5159E-05

EAB Doses:

Time (h) = 705.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.5554E-07	9.2779E-04	3.8286E-05
Accumulated dose (rem)	9.4173E-03	5.5615E+00	1.8683E-01

LPZ Doses:

Time (h) = 705.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0913E-09	6.8142E-06	2.8294E-07
Accumulated dose (rem)	9.5276E-04	3.6238E-01	1.2495E-02

CR Doses:

Time (h) = 705.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.4548E-09	6.8902E-05	2.8169E-06
Accumulated dose (rem)	7.6245E-04	2.5090E+00	8.0573E-02

DW Compartment Nuclide Inventory:

Time (h) = 705.0000	Ci	kg	Atoms	Decay
Rb-86	1.1600E-01	1.4256E-09	9.9829E+15	6.7259E+16
I-131	2.0726E+02	1.6718E-06	7.6853E+18	4.1534E+20
I-133	3.3841E-07	2.9874E-16	1.3527E+09	6.4739E+20
Xe-133	3.0187E+02	1.6127E-06	7.3023E+18	4.0372E+20

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Xe-133m	1.0992E-01	2.4967E-10	1.1305E+15	1.2409E+19
Cs-134	3.3620E+01	2.5985E-05	1.1678E+20	8.0766E+18
Cs-136	2.2273E+00	3.0390E-08	1.3457E+17	1.9400E+18
Cs-137	2.6767E+01	3.0773E-04	1.3527E+21	6.3046E+18

DW Transport Group Inventory:

Time (h) = 705.0000	Atmosphere	Sump	
Noble gases (atoms)	7.3034E+18	0.0000E+00	
Elemental I (atoms)	0.0000E+00	0.0000E+00	
Organic I (atoms)	0.0000E+00	0.0000E+00	
Aerosols (kg)	3.3542E-04	4.5513E+00	
Dose Effective (Ci/cc) I-131 (Thyroid)			2.3904E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)			2.3904E-08
Total I (Ci)			2.0726E+02

DW to WW Transport Group Inventory:

Time (h) = 705.0000 Leakage Transport

Noble gases (atoms)	2.9319E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1945E+01

WW to DW Transport Group Inventory:

Time (h) = 705.0000 Leakage Transport

Noble gases (atoms)	2.9323E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.1996E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 705.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5095E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8827E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 705.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2688E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7586E-05	6.4878E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 705.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1503E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5270E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 705.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1503E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5270E-05

EAB Doses:

Time (h) = 710.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4787E-07	9.0982E-04	3.7712E-05
Accumulated dose (rem)	9.4177E-03	5.5624E+00	1.8686E-01

LPZ Doses:

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Time (h) = 710.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	5.0056E-09	6.6822E-06	2.7870E-07
Accumulated dose (rem)	9.5276E-04	3.6238E-01	1.2495E-02

CR Doses:

Time (h) = 710.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.2663E-09	6.7568E-05	2.7747E-06
Accumulated dose (rem)	7.6245E-04	2.5091E+00	8.0576E-02

DW Compartment Nuclide Inventory:

Time (h) = 710.0000	Ci	kg	Atoms	Decay
Rb-86	1.1490E-01	1.4121E-09	9.8885E+15	6.7336E+16
I-131	2.0321E+02	1.6391E-06	7.5352E+18	4.1548E+20
I-133	2.8597E-07	2.5244E-16	1.1430E+09	6.4739E+20
Xe-133	2.9316E+02	1.5662E-06	7.0915E+18	4.0392E+20
Xe-133m	1.0285E-01	2.3361E-10	1.0577E+15	1.2409E+19
Cs-134	3.3555E+01	2.5935E-05	1.1655E+20	8.0989E+18
Cs-136	2.1990E+00	3.0004E-08	1.3286E+17	1.9414E+18
Cs-137	2.6720E+01	3.0719E-04	1.3503E+21	6.3224E+18

DW Transport Group Inventory:

Time (h) = 710.0000	Atmosphere	Sump
Noble gases (atoms)	7.0926E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3479E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.3437E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.3437E-08
Total I (Ci)		2.0321E+02

DW to WW Transport Group Inventory:

Time (h) = 710.0000 Leakage Transport

Noble gases (atoms)	2.9333E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.2007E+01

WW to DW Transport Group Inventory:

Time (h) = 710.0000 Leakage Transport

Noble gases (atoms)	2.9337E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.2058E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway
Time (h) = 710.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.5105E+19
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	0.0000E+00 3.8872E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway
Time (h) = 710.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 2.2697E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00
Aerosols (kg)	1.7616E-05 6.4988E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway
Time (h) = 710.0000	Filtered Transported
Noble gases (atoms)	0.0000E+00 6.1527E+18
Elemental I (atoms)	0.0000E+00 0.0000E+00
Organic I (atoms)	0.0000E+00 0.0000E+00

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Aerosols (kg) 0.0000E+00 6.5381E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 710.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1527E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5381E-05

EAB Doses:

Time (h) = 715.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.4038E-07	8.9221E-04	3.7150E-05
Accumulated dose (rem)	9.4182E-03	5.5633E+00	1.8690E-01

LPZ Doses:

Time (h) = 715.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.9219E-09	6.5529E-06	2.7454E-07
Accumulated dose (rem)	9.5277E-04	3.6239E-01	1.2495E-02

CR Doses:

Time (h) = 715.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	7.0831E-09	6.6260E-05	2.7333E-06
Accumulated dose (rem)	7.6246E-04	2.5092E+00	8.0578E-02

DW Compartment Nuclide Inventory:

Time (h) = 715.0000	Ci	kg	Atoms	Decay
Rb-86	1.1382E-01	1.3988E-09	9.7950E+15	6.7412E+16
I-131	1.9924E+02	1.6071E-06	7.3881E+18	4.1562E+20
I-133	2.4165E-07	2.1332E-16	9.6590E+08	6.4739E+20
Xe-133	2.8470E+02	1.5210E-06	6.8869E+18	4.0411E+20
Xe-133m	9.6228E-02	2.1857E-10	9.8968E+14	1.2409E+19
Cs-134	3.3489E+01	2.5884E-05	1.1633E+20	8.1212E+18
Cs-136	2.1711E+00	2.9623E-08	1.3117E+17	1.9429E+18
Cs-137	2.6672E+01	3.0664E-04	1.3479E+21	6.3402E+18

DW Transport Group Inventory:

Time (h) = 715.0000	Atmosphere	Sump
Noble gases (atoms)	6.8879E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3416E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.2979E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.2979E-08
Total I (Ci)		1.9924E+02

DW to WW Transport Group Inventory:

Time (h) = 715.0000 Leakage Transport

Noble gases (atoms)	2.9346E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.2070E+01

WW to DW Transport Group Inventory:

Time (h) = 715.0000 Leakage Transport

Noble gases (atoms)	2.9350E+24
Elemental I (atoms)	0.0000E+00
Organic I (atoms)	0.0000E+00
Aerosols (kg)	1.2121E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 715.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5114E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00

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Aerosols (kg) 0.0000E+00 3.8917E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 715.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2705E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7645E-05	6.5098E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 715.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1550E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5492E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 715.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1550E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5492E-05

EAB Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.3307E-07	8.7494E-04	3.6598E-05
Accumulated dose (rem)	9.4186E-03	5.5642E+00	1.8694E-01

LPZ Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	4.8402E-09	6.4261E-06	2.7046E-07
Accumulated dose (rem)	9.5277E-04	3.6239E-01	1.2496E-02

CR Doses:

Time (h) = 720.0000	Whole Body	Thyroid	TEDE
Delta dose (rem)	6.9049E-09	6.4978E-05	2.6927E-06
Accumulated dose (rem)	7.6247E-04	2.5092E+00	8.0581E-02

DW Compartment Nuclide Inventory:

Time (h) = 720.0000	Ci	kg	Atoms	Decay
Rb-86	1.1274E-01	1.3856E-09	9.7024E+15	6.7487E+16
I-131	1.9535E+02	1.5758E-06	7.2438E+18	4.1575E+20
I-133	2.0420E-07	1.8026E-16	8.1622E+08	6.4739E+20
Xe-133	2.7648E+02	1.4771E-06	6.6881E+18	4.0429E+20
Xe-133m	9.0035E-02	2.0451E-10	9.2599E+14	1.2409E+19
Cs-134	3.3424E+01	2.5833E-05	1.1610E+20	8.1435E+18
Cs-136	2.1435E+00	2.9247E-08	1.2951E+17	1.9443E+18
Cs-137	2.6625E+01	3.0610E-04	1.3455E+21	6.3579E+18

DW Transport Group Inventory:

Time (h) = 720.0000	Atmosphere	Sump
Noble gases (atoms)	6.6891E+18	0.0000E+00
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	3.3354E-04	4.5513E+00
Dose Effective (Ci/cc) I-131 (Thyroid)		2.2531E-08
Dose Effective (Ci/cc) I-131 (ICRP2 Thyroid)		2.2531E-08
Total I (Ci)		1.9535E+02

DW to WW Transport Group Inventory:

Time (h) = 720.0000 Leakage Transport

Noble gases (atoms)	2.9359E+24
Elemental I (atoms)	0.0000E+00

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Organic I (atoms) 0.0000E+00
Aerosols (kg) 1.2132E+01

WW to DW Transport Group Inventory:
Time (h) = 720.0000 Leakage Transport

Noble gases (atoms) 2.9363E+24
Elemental I (atoms) 0.0000E+00
Organic I (atoms) 0.0000E+00
Aerosols (kg) 1.2183E+01

DW Leakage to RB (Released to Dummy) Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.5123E+19
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	3.8962E-04

DW Bypass Pathway 5 to Environment (Released to Du Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	2.2714E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	1.7675E-05	6.5208E-06

DW to MSIV Failed Inboard Volume 1 Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1573E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5603E-05

DW to Intact Inboard Volume 3 Transport Group Inventory:

	Pathway	
Time (h) = 720.0000	Filtered	Transported
Noble gases (atoms)	0.0000E+00	6.1573E+18
Elemental I (atoms)	0.0000E+00	0.0000E+00
Organic I (atoms)	0.0000E+00	0.0000E+00
Aerosols (kg)	0.0000E+00	6.5603E-05

931

I-131 Summary
#####

	DW	WW	Dummy
Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	5.8384E+03	0.0000E+00	3.2690E-02
0.017	1.7546E+05	0.0000E+00	2.9534E+01
0.083	8.7442E+05	0.0000E+00	7.3431E+02
0.300	3.1485E+06	0.0000E+00	9.7432E+02
0.500	5.7979E+05	0.0000E+00	1.1037E+03
0.750	8.8038E+05	0.0000E+00	1.2161E+03
1.000	8.8184E+05	0.0000E+00	1.3366E+03
1.400	8.8075E+05	0.0000E+00	1.5292E+03
1.700	8.7994E+05	0.0000E+00	1.6732E+03
2.000	8.7914E+05	0.0000E+00	1.8170E+03
2.017	4.4446E+05	2.2936E+05	1.8238E+03
2.417	2.5315E+05	1.6095E+05	1.9312E+03
2.700	1.7951E+05	1.1413E+05	1.9804E+03
3.000	1.2469E+05	7.9277E+04	2.0164E+03
3.157	1.0304E+05	6.5513E+04	2.0303E+03
3.457	7.1570E+04	4.5505E+04	2.0500E+03
3.800	4.7183E+04	3.0000E+04	2.0644E+03
4.000	3.7007E+04	2.3529E+04	2.0700E+03
4.300	2.5705E+04	1.6344E+04	2.0756E+03

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4.600	1.7855E+04	1.1352E+04	2.0788E+03
4.900	1.2402E+04	7.8855E+03	2.0803E+03
5.200	8.6146E+03	5.4773E+03	2.0807E+03
5.500	5.9838E+03	3.8046E+03	2.0803E+03
5.800	4.1564E+03	2.6427E+03	2.0793E+03
6.000	3.2599E+03	2.0727E+03	2.0785E+03
6.300	3.2814E+03	2.0443E+03	2.0771E+03
6.600	3.2772E+03	2.0417E+03	2.0757E+03
6.900	3.2730E+03	2.0390E+03	2.0742E+03
7.200	3.2688E+03	2.0364E+03	2.0728E+03
7.500	3.2646E+03	2.0338E+03	2.0714E+03
7.800	3.2604E+03	2.0312E+03	2.0700E+03
8.000	3.2576E+03	2.0294E+03	2.0691E+03
8.300	3.2534E+03	2.0268E+03	2.0677E+03
8.600	3.2492E+03	2.0242E+03	2.0662E+03
8.900	3.2450E+03	2.0216E+03	2.0648E+03
9.200	3.2408E+03	2.0190E+03	2.0634E+03
9.500	3.2366E+03	2.0164E+03	2.0620E+03
9.800	3.2325E+03	2.0138E+03	2.0606E+03
10.100	3.2283E+03	2.0112E+03	2.0592E+03
10.400	3.2242E+03	2.0086E+03	2.0578E+03
16.000	3.1475E+03	1.9609E+03	2.0316E+03
24.000	3.0412E+03	1.8946E+03	1.9945E+03
96.000	2.2894E+03	1.4262E+03	1.6101E+03
720.000	1.9535E+02	1.2170E+02	2.2843E+02

Time (hr)	Environment I-131 (Curies)	CR I-131 (Curies)	MSIV Failed Inboard V I-131 (Curies)
0.000	3.9754E-14	2.7580E-17	2.1482E-04
0.017	3.2421E-08	2.2480E-11	1.9397E-01
0.083	1.9972E-05	3.6453E-09	4.8117E+00
0.300	3.3093E-03	5.9209E-07	6.1906E+01
0.500	2.2793E-02	4.0114E-06	9.1382E+01
0.750	8.2586E-02	1.4174E-05	1.1584E+02
1.000	1.8967E-01	3.1739E-05	1.4158E+02
1.400	4.8040E-01	7.7298E-05	1.8133E+02
1.700	8.1091E-01	1.2680E-04	2.1001E+02
2.000	1.2505E+00	1.9016E-04	2.3774E+02
2.017	1.2789E+00	1.9243E-04	2.3868E+02
2.417	2.0561E+00	2.5452E-04	2.4556E+02
2.700	2.7278E+00	3.0727E-04	2.4611E+02
3.000	3.5427E+00	3.6941E-04	2.4418E+02
3.157	4.0086E+00	4.0396E-04	2.4244E+02
3.457	4.9686E+00	4.7284E-04	2.3813E+02
3.800	6.1686E+00	5.5466E-04	2.3212E+02
4.000	6.9137E+00	6.0315E-04	2.2829E+02
4.300	8.0871E+00	6.7607E-04	2.2226E+02
4.600	9.3201E+00	7.4834E-04	2.1605E+02
4.900	1.0605E+01	8.1911E-04	2.0979E+02
5.200	1.1933E+01	8.8768E-04	2.0354E+02
5.500	1.3299E+01	9.5346E-04	1.9737E+02
5.800	1.4695E+01	1.0160E-03	1.9130E+02
6.000	1.5641E+01	1.0558E-03	1.8734E+02
6.300	1.7075E+01	1.1122E-03	1.8152E+02
6.600	1.8526E+01	1.1647E-03	1.7590E+02
6.900	1.9988E+01	1.2131E-03	1.7045E+02
7.200	2.1456E+01	1.2573E-03	1.6517E+02
7.500	2.2929E+01	1.2973E-03	1.6006E+02
7.800	2.4400E+01	1.3332E-03	1.5511E+02
8.000	2.5380E+01	1.3548E-03	1.5190E+02
8.300	2.6844E+01	1.2785E-03	1.4721E+02
8.600	2.8300E+01	1.2097E-03	1.4267E+02
8.900	2.9746E+01	1.1474E-03	1.3827E+02
9.200	3.1179E+01	1.0910E-03	1.3402E+02
9.500	3.2598E+01	1.0398E-03	1.2989E+02
9.800	3.4000E+01	9.9317E-04	1.2590E+02
10.100	3.5386E+01	9.5055E-04	1.2203E+02
10.400	3.6752E+01	9.1150E-04	1.1829E+02
16.000	5.8009E+01	5.0754E-04	6.6596E+01
24.000	7.5343E+01	2.4565E-04	3.0395E+01
96.000	9.0515E+01	4.8201E-06	3.4280E+00
720.000	1.0101E+02	2.5194E-07	2.5095E-01

MSIV Failed Outboard Intact Inboard Volume Intact Outboard Volum

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Time (hr)	I-131 (Curies)	I-131 (Curies)	I-131 (Curies)
0.000	4.1300E-09	2.1482E-04	4.8627E-09
0.017	1.1201E-04	1.9395E-01	1.3189E-04
0.083	1.3815E-02	4.8092E+00	1.6270E-02
0.300	6.3317E-01	6.1793E+01	7.4604E-01
0.500	2.2542E+00	9.0975E+01	2.6577E+00
0.750	4.7246E+00	1.1497E+02	5.5754E+00
1.000	7.7008E+00	1.4016E+02	9.0951E+00
1.400	1.3419E+01	1.7882E+02	1.5868E+01
1.700	1.8388E+01	2.0653E+02	2.1760E+01
2.000	2.3864E+01	2.3318E+02	2.8261E+01
2.017	2.4187E+01	2.3405E+02	2.8646E+01
2.417	3.1623E+01	2.3941E+02	3.7490E+01
2.700	3.6564E+01	2.3892E+02	4.3378E+01
3.000	4.1429E+01	2.3593E+02	4.9187E+01
3.157	4.3809E+01	2.3365E+02	5.2033E+01
3.457	4.8027E+01	2.2836E+02	5.7085E+01
3.800	5.2319E+01	2.2131E+02	6.2234E+01
4.000	5.4565E+01	2.1690E+02	6.4933E+01
4.300	5.7591E+01	2.1008E+02	6.8576E+01
4.600	6.0226E+01	2.0313E+02	7.1752E+01
4.900	6.2491E+01	1.9619E+02	7.4487E+01
5.200	6.4413E+01	1.8933E+02	7.6812E+01
5.500	6.6017E+01	1.8260E+02	7.8753E+01
5.800	6.7326E+01	1.7603E+02	8.0339E+01
6.000	6.8047E+01	1.7175E+02	8.1214E+01
6.300	6.8919E+01	1.6551E+02	8.2272E+01
6.600	6.9559E+01	1.5951E+02	8.3047E+01
6.900	6.9989E+01	1.5373E+02	8.3567E+01
7.200	7.0228E+01	1.4816E+02	8.3853E+01
7.500	7.0294E+01	1.4280E+02	8.3927E+01
7.800	7.0205E+01	1.3764E+02	8.3810E+01
8.000	7.0067E+01	1.3430E+02	8.3635E+01
8.300	6.9752E+01	1.2945E+02	8.3239E+01
8.600	6.9320E+01	1.2478E+02	8.2698E+01
8.900	6.8783E+01	1.2029E+02	8.2028E+01
9.200	6.8153E+01	1.1596E+02	8.1241E+01
9.500	6.7441E+01	1.1179E+02	8.0351E+01
9.800	6.6655E+01	1.0777E+02	7.9370E+01
10.100	6.5805E+01	1.0391E+02	7.8308E+01
10.400	6.4900E+01	1.0018E+02	7.7176E+01
16.000	4.4376E+01	5.1213E+01	5.1497E+01
24.000	2.1825E+01	2.0776E+01	2.3745E+01
96.000	1.7020E+00	2.6606E+00	1.7322E+00
720.000	1.1196E-01	2.1292E-01	1.2720E-01

Cumulative Dose Summary
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Time (hr)	EAB		LPZ		CR	
	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.017	2.0625E-09	7.7074E-11	2.8078E-10	1.0492E-11	1.7456E-11	5.7141E-13
0.083	1.2696E-06	4.7340E-08	1.7284E-07	6.4446E-09	1.1235E-08	3.6772E-10
0.300	2.0988E-04	7.7704E-06	2.8572E-05	1.0578E-06	6.3732E-06	2.0841E-07
0.500	1.4426E-03	5.3100E-05	1.9638E-04	7.2287E-06	7.6494E-05	2.4993E-06
0.750	5.2143E-03	1.9076E-04	7.0984E-04	2.5970E-05	4.5306E-04	1.4788E-05
1.000	1.1948E-02	4.3453E-04	1.6265E-03	5.9155E-05	1.4360E-03	4.6816E-05
1.400	3.0169E-02	1.0887E-03	4.1070E-03	1.4821E-04	5.1434E-03	1.6742E-04
1.700	5.0798E-02	1.8231E-03	6.9153E-03	2.4818E-04	1.0447E-02	3.3960E-04
2.000	7.8141E-02	2.7903E-03	1.0638E-02	3.7985E-04	1.8681E-02	6.0655E-04
2.017	7.9903E-02	2.8524E-03	1.0877E-02	3.8830E-04	1.9247E-02	6.2487E-04
2.417	1.2803E-01	4.5433E-03	1.7429E-02	6.1850E-04	3.4676E-02	1.1242E-03
2.700	1.6947E-01	5.9915E-03	2.3070E-02	8.1565E-04	4.8399E-02	1.5678E-03
3.000	2.1957E-01	7.7357E-03	2.9892E-02	1.0531E-03	6.5873E-02	2.1322E-03
3.157	2.4815E-01	8.7274E-03	3.3782E-02	1.1881E-03	7.6308E-02	2.4690E-03
3.457	3.0689E-01	1.0761E-02	4.1778E-02	1.4649E-03	9.8852E-02	3.1962E-03
3.800	3.8005E-01	1.3285E-02	5.1738E-02	1.8086E-03	1.2896E-01	4.1667E-03
4.000	4.2535E-01	1.4844E-02	5.7905E-02	2.0208E-03	1.4869E-01	4.8025E-03
4.300	4.9651E-01	1.7288E-02	6.7592E-02	2.3535E-03	1.8131E-01	5.8531E-03
4.600	5.7105E-01	1.9842E-02	7.7740E-02	2.7012E-03	2.1753E-01	7.0188E-03
4.900	6.4847E-01	2.2490E-02	8.8280E-02	3.0616E-03	2.5726E-01	8.2973E-03

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5.200 7.2832E-01 2.5215E-02 9.9149E-02 3.4326E-03 3.0041E-01 9.6849E-03
5.500 8.1016E-01 2.8003E-02 1.1029E-01 3.8122E-03 3.4681E-01 1.1177E-02
5.800 8.9359E-01 3.0841E-02 1.2165E-01 4.1986E-03 3.9631E-01 1.2768E-02
6.000 9.4993E-01 3.2755E-02 1.2932E-01 4.4591E-03 4.3093E-01 1.3881E-02
6.300 1.0352E+00 3.5651E-02 1.4093E-01 4.8533E-03 4.8516E-01 1.5623E-02
6.600 1.1213E+00 3.8566E-02 1.5264E-01 5.2502E-03 5.4196E-01 1.7447E-02
6.900 1.2077E+00 4.1493E-02 1.6442E-01 5.6486E-03 6.0112E-01 1.9347E-02
7.200 1.2944E+00 4.4422E-02 1.7621E-01 6.0474E-03 6.6241E-01 2.1315E-02
7.500 1.3810E+00 4.7348E-02 1.8800E-01 6.4456E-03 7.2563E-01 2.3344E-02
7.800 1.4673E+00 5.0261E-02 1.9976E-01 6.8423E-03 7.9056E-01 2.5428E-02
8.000 1.5247E+00 5.2195E-02 2.0756E-01 7.1055E-03 8.3469E-01 2.6844E-02
8.300 1.6103E+00 5.5077E-02 2.1159E-01 7.2485E-03 8.9937E-01 2.8920E-02
8.600 1.6951E+00 5.7935E-02 2.1559E-01 7.3900E-03 9.6033E-01 3.0875E-02
8.900 1.7792E+00 6.0762E-02 2.1955E-01 7.5301E-03 1.0179E+00 3.2723E-02
9.200 1.8623E+00 6.3556E-02 2.2347E-01 7.6684E-03 1.0725E+00 3.4473E-02
9.500 1.9444E+00 6.6313E-02 2.2733E-01 7.8048E-03 1.1244E+00 3.6135E-02
9.800 2.0254E+00 6.9031E-02 2.3115E-01 7.9393E-03 1.1737E+00 3.7717E-02
10.100 2.1051E+00 7.1706E-02 2.3491E-01 8.0716E-03 1.2207E+00 3.9226E-02
10.400 2.1836E+00 7.4337E-02 2.3860E-01 8.2016E-03 1.2657E+00 4.0667E-02
16.000 3.3849E+00 1.1451E-01 2.9519E-01 1.0185E-02 1.8650E+00 5.9878E-02
24.000 4.3289E+00 1.4596E-01 3.3966E-01 1.1735E-02 2.3071E+00 7.4055E-02
96.000 5.0878E+00 1.7079E-01 3.5890E-01 1.2376E-02 2.4736E+00 7.9387E-02
720.000 5.5642E+00 1.8694E-01 3.6239E-01 1.2496E-02 2.5092E+00 8.0581E-02

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#####
Worst Two-Hour Doses
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EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
6.0	1.1351E-03	5.7477E-01	1.9440E-02