

# **Donald C. Cook Nuclear Plant Units 1 & 2**

## **Annual Radioactive Effluent Release Report**

January 1 through December 31, 1998

Indiana Michigan Power Company  
Bridgman, MI

Docket Nos. 50-315 & 50-316  
License Nos. DPR-58 & DPR-74

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## I. INTRODUCTION

This report discusses the radioactive discharges from Unit 1 and Unit 2 of the Donald C. Cook Nuclear Plant during 1998. This is in accordance with the requirements of Cook Nuclear Plant Technical Specification 6.9.1.7.

Table 1 below summarizes the pertinent statistics concerning the Plant's operation during the period from January 1, to December 31, 1998. The data in this table and the descriptive information on plant operation are based upon the respective Unit's Monthly Operating Reports for 1998.

Table 1: Operating Statistics

Parameter	Unit 1	Unit 2
Gross Electrical Energy Generation (MWH)	0	0
Unit Service Factor (%)	0	0
Unit Capacity Factor - MDC Net (%)	0	0

Units 1 and 2 remained in Mode 5 during 1998. Mode 5 status is a result of an extended shutdown beginning in late 1997.

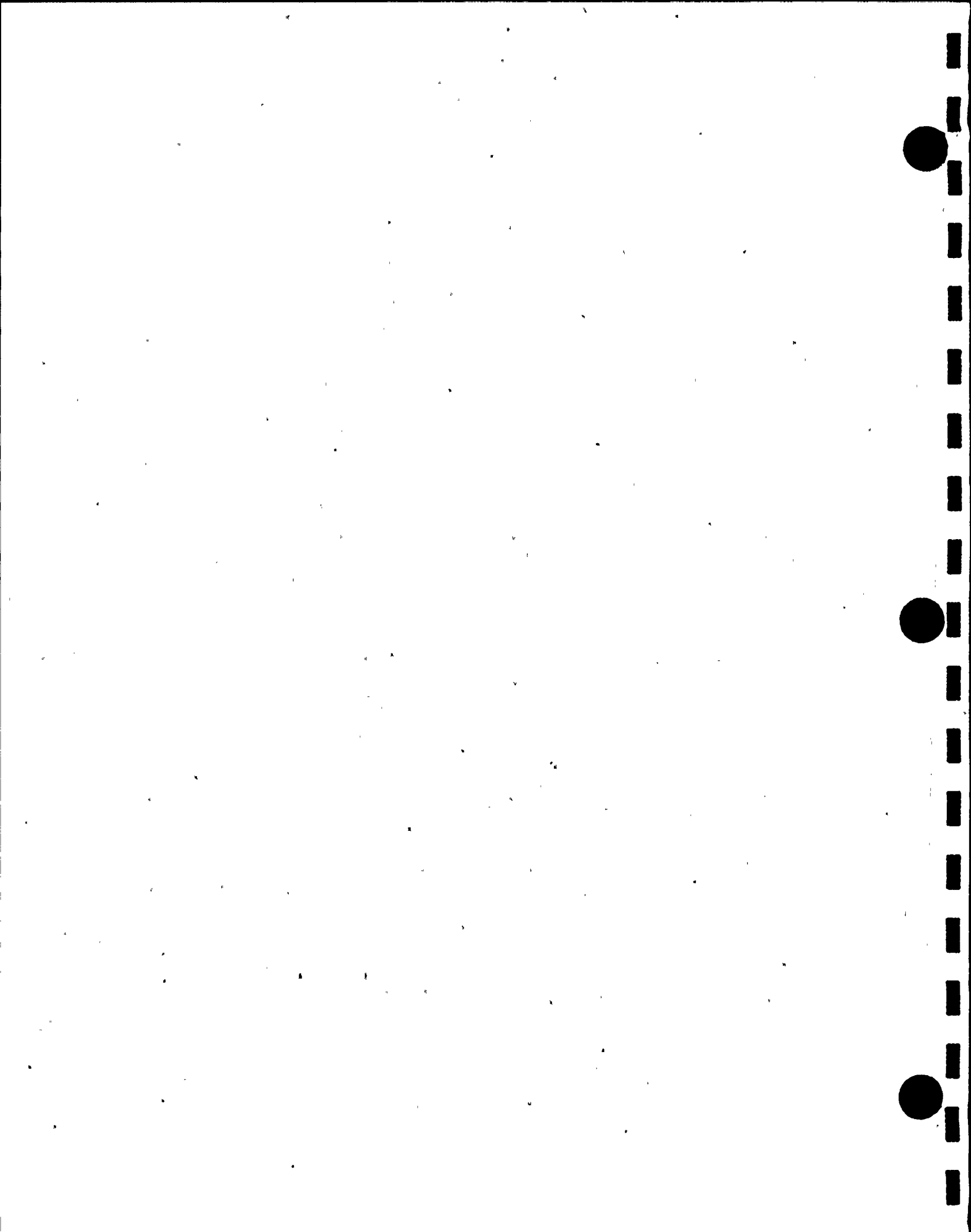
## II. RADIOACTIVE RELEASES AND RADIOLOGICAL IMPACT ON MAN

Since a number of release points are common to both units, the release data from both units are combined to form this two-unit, Annual Radioactive Effluent Release Report. Appendix 1 of this report presents the information in accordance with section 6.9.1.7 of Appendix A to the Facility Operating Licenses, as specified in the Technical Specification, 10 CFR Part 50, Appendix I and Regulatory Guide 1.21

The "MIDAS System" by PLG, Inc., is a computer code that calculates doses from radionuclides that were released from the Donald C. Cook Nuclear Plant.

All liquid and gaseous releases were well within Offsite Dose Calculation Manual and regulatory limits.

There were no abnormal liquid or gaseous releases during 1998.



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### *A. Liquid Releases*

There were 101 liquid batch releases during the reporting period. Estimated doses (in millirem) to maximally exposed individuals via the liquid release pathways are given in appendices 2-5 of this report.

### *B. Gaseous Releases*

There were 22 gaseous batch releases during the reporting period.

Containment pressure reliefs (CPRs) are listed as batch releases in accordance with NRC inspections 50-315/89016 (DRSS) and 50-316/83017 DRSS. For the purpose of dose assessment, CPR batch releases were treated as continuous releases.

Table 2 shows the number and type of gaseous releases.

Table 2: Number of Gaseous Releases

Type	Number
Containment Pressure Relief releases	44
Waste Gas Decay Tank releases	22
CVCS Hold up tank release	0

In calculating the dose consequences for continuous and batch gaseous releases during 1998, the meteorological data measured at the time of the release were used.

The estimated doses (in millirem) to maximally exposed individuals via the gaseous release pathways are given in appendices 2-5 of this report.

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### *C. Solid Waste Disposition*

Table 3 shows the type and number of radioactive waste shipments made during the year.

Table 3: Solid Waste Disposition

Type	Number
Shipments made from Donald C. Cook	39
Shipments made from other radioactive waste processors	15*
Solid Waste Shipments	54*

\*Approximate. Radioactive waste provided to other processors is tracked by volume. The processors' shipments often include very small amounts (partial shipments) from Donald C. Cook on the same truck used to ship waste from a number of other sites.

### III. METEOROLOGICAL

Appendices 6-9 of this report contain the cumulative joint frequency distribution tables of wind speed and wind direction, corresponding to the various atmospheric stability classes for the first, second, third and fourth quarters of the year. Hourly meteorological data is available for review and/or inspection upon request.

### IV. OFF-SITE DOSE CALCULATION MANUAL (ODCM) CHANGES

The Offsite Dose Calculation Manual, 12 PMP 6010 OSD.001, was not changed during the reporting period.

### V. TOTAL DOSE

Section 4.2.5 of the ODCM requires that the dose or dose commitment to a real individual from uranium fuel cycle sources in Berrien County be limited to no more than twenty-five (25) millirem to the total body or any organ. This value excludes the thyroid, which is limited to no more than seventy-five (75) millirem over a period of twelve consecutive months. These limits are established to meet the requirements of 40 CFR Part 190. The maximum cumulative dose to an individual from liquid and gaseous effluents during the reporting period was well within the ODCM limits. Measurements using thermoluminescent dosimeters at eleven (11) offsite background stations indicate that the dose due to direct radiation is negligible. An assessment showed that radiation doses from radioactive liquid and gaseous effluents to members of the public due to their activities inside the site boundary are also negligible.



## VI. CONCLUSION

Based on the information presented in this report, it is concluded that the Donald C. Cook Nuclear Plant Units 1 and 2 performed their design function with no demonstrable adverse affect on the health and safety of the general public.



**Appendix 1: Supplemental Information**

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## I. Regulatory Limits

### A. Noble Gases

The air dose in unrestricted areas due to noble gases released in gaseous effluents shall be limited to the following:

1. During any calendar quarter, to  $\leq 5$  mrad for gamma radiation and  $\leq 10$  mrad for beta radiation;
2. During any calendar year, to  $\leq 10$  mrad for gamma radiation and  $\leq 20$  mrad for beta radiation.

### B. Iodines and Particulates

The dose to a member of the public from radioiodines, radioactive materials in particulate form, and radionuclides other than noble gases with half-lives greater than 8 days in gaseous effluents released to unrestricted areas shall be limited to the following:

1. During any calendar quarter to  $\leq 7.5$  mrem to any organ;
2. During any calendar year to  $\leq 15$  mrem to any organ.

### C. Liquid Effluents

The dose or dose commitment an individual from radioactive material in liquid effluents released to unrestricted areas shall be limited:

1. During any calendar quarter to  $\leq 1.5$  mrem to the total body and to  $\leq 5$  mrem to any Organ;
2. During any calendar year to  $\leq 3$  mrem to the total body and to  $\leq 10$  mrem to any organ.

### D. Total Dose

The dose or dose commitment to a real individual from all uranium fuel cycle sources is limited to  $\leq 25$  mrem to the total body or any organ (except the thyroid, which is limited to  $\leq 75$  mrem) over a period of 12 consecutive months.



## II. Maximum Permissible Concentrations

### A. Gaseous Effluents

The dose rate due to radioactive materials released in gaseous effluents from the site shall be limited to the following:

1. For noble gases:  $\leq 500$  mrem/yr to the total body and  $\leq 3000$  mrem/yr to the skin;
2. For all radioiodines and for all radioactive materials in particulate form and radionuclides (other than noble gases) with half-lives greater than 8 days  $\leq 1500$  mrem/yr to any organ.

The above limits are provided to insure that radioactive material discharged in gaseous effluents will not result in the exposure of an individual in an unrestricted area to annual average concentrations exceeding the limits in 10 CFR Part 20, Appendix B, Table 2.

### B. Liquid Effluents

The concentration of radioactive material released at any time from the site to unrestricted areas shall be limited to the concentrations specified in 10 CFR Part 20, Appendix B, Table 2, Column 2, for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to  $2 \times 10^{-4}$   $\mu\text{Ci/ml}$  total activity.

## III. Average Energy

The average energy (E) of the radionuclide mixture in releases of fission and activation gases as defined in Regulatory Guide 1.21 Appendix B Section A.3 is not applicable because the limits used for gaseous releases are based on calculated dose to members of the public.





#### IV. Measurements and Approximations of Total Radioactivity

##### *A. Fission and Activation Gases*

Sampled and analyzed on a 4096 channel analyzer and HpGe detector.

##### *B. Iodines*

Sampled on iodine adsorbing media and analyzed on a 4096 channel analyzer and HpGe detector.

##### *C. Particulates*

Sampled on a glass filter and analyzed on a 4096 channel analyzer and HpGe detector.

##### *D. Liquid Effluents*

Sampled and analyzed on a 4096 channel analyzer and HpGe detector.

#### V. Batch Releases

##### *A. Liquid Statistics*

1. Number of Batch Releases in 1998:	101	
2. Total time period for batch releases:	2.26 E4	min
3. Maximum time period for a batch release:	1.60 E3	min
4. Average time period for a batch release:	2.24 E2	min
5. Minimum time period for a batch release:	23	min
6. Average stream flow during periods of release of effluent into a flowing stream:	5.54 E6	L/min



## 1998 Annual Radioactive Effluent Release Report

### *B. Gaseous*

I.	Number of Batch Releases:	22
II.	Total time period for batch releases:	1.66 E3 min
III.	Maximum time period for a batch release:	2.94 E2 min
IV.	Average time period for a batch release:	7.54 E1 min
V.	Minimum time period for a batch release:	41 min

### VI. Abnormal Releases

#### *A. Liquid*

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Number of Releases	0	0	0	0
Total Activity released (Ci)	0	0	0	0

#### *B. Gaseous*

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Number of Releases	0	0	0	0
Total Activity released (Ci)	0	0	0	0



# 1998 Annual Radioactive Effluent Release Report

## VII. Effluent and Waste Disposal Annual Report

### A. Solid Waste and Irradiated Fuel Shipments

#### 1. Solid waste shipped off-site for burial or disposal:

Type of Waste	Units	Estimated Amount	Estimated Total Error, Percent
Spent resins, filter sludges, evaporator Bottoms, etc.	m <sup>3</sup>	4.3 E+01	1.00
	Ci	1.25 E+03	3.75
Dry compressible waste, contaminated Equipment, etc.	m <sup>3</sup>	1.17 E+02	1.00
	Ci	6.4 E-01	6.48
Irradiated components, control rods, etc.	m <sup>3</sup>	0.0 E+0	
	Ci	0.0 E+0	

#### 2. Estimate of Principal Radionuclide Composition:

Nuclide	Spent resins, filter sludges, evaporator bottoms, etc.*	Dry compressible waste, contaminated equipment, etc.
Cs-137	27 %	14 %
Cs-134	9 %	2 %
Co-58	2 %	6 %
Co-60	20 %	15 %
Fe-55	8 %	39 %
H-3	<1 %	3 %
Ni-63	29 %	17 %
Pu-241	<1 %	2 %
I-129	<1 %	5 %

\*based on approximately 33% of total curies for this category



## 1998 Annual Radioactive Effluent Release Report

### 3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
39	Truck	Tennessee
10*	Truck	Barnwell, SC
5*	Truck	Utah

\*Shipments made from other radioactive waste processors.

### 4. Type of Containers Used for Shipment

Containers are strong, tight metal boxes, metal drums and high integrity containers (HICs)

### 5. Solidification Agent

No solidifications were performed during this report period.

## VIII. Effluent and Waste Disposal Annual Report Yearly Release Rates

Gases		
Fission and Activation Gases	Total Release	1.06 E+00 Ci
	Average Release Rate	3.35 E-02 $\mu$ Ci/sec
	% of Applicable Limits	1.6 E-04 % ( $\gamma$ )
	% of Applicable Limits	3.1 E-02 % ( $\beta$ )
Iodines	Total Iodine-131 Release	0.00 E+00 Ci
	Average Release Rate	0.00 E+00 $\mu$ Ci/sec
	% of Applicable Limit	0.00 E+00 %
Particulates	Total Release	1.64 E-05 Ci
	Average Release Rate	5.19 E-07 $\mu$ Ci/sec
	% of Applicable Limit	1.43 E+00 %
Liquid		
Fission and Activation Products	Total Release	1.72 E-01 Ci
	Average Diluted Concentration	1.37 E-09 $\mu$ Ci/ml
	% of Applicable Limit	<1 %





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### IX. Distances Used in Dose Calculations

The following distances were used in the calculation of the maximum individual doses:

Sector	Direction	Boundary (meters)	Nearest Residence (meters)
A	N	651	659
B	NNE	617	660
C	NE	789	943
D	ENE	1497	1747
E	E	1274	1716
F	ESE	972	1643
G	SE	629	1136
H	SSE	594	1507
J	S	594	1026
K	SSW	629	942



1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
A.	FISSION AND ACTIVATION GASES						
1.	Total Release	Ci	0.00E+00	4.56E-01	4.57E-01	1.44E-01	13.3
2.	Average release rate for period	uCi/sec	0.00E+00	5.80E-02	5.75E-02	1.82E-02	
3.	Percent of applicable limit	% Gamma Beta	0 0	5.4E-04 3.0E-02	8.8E-05 5.0E-04	1.5E-05 8.3E-04	

B.	IODINES						
1.	Total I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0
2.	Average release rate for period	uCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.	Percent of applicable limit	%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

C.	PARTICULATES						
1.	Particulates with half lives > 8 days	Ci	0.00E+00	6.10E-06	0.00E+00	1.03E-05	23.0
2.	Average release rate for period	uCi/sec	0.00E+00	7.76E-07	0.00E+00	1.29E-06	
3.	Percent of applicable limit	%	0.00E+00	3.6E-01	0.00E+00	7.6E-01	
4.	Gross alpha radioactivity	Ci	<1.49E-06	<1.71E-06	<2.06E-06	<1.90E-06	

D.	Tritium						
1.	Total Release	Ci	2.44E+01	2.21E+01	2.19E+01	2.29E+01	15.6
2.	Average release rate for period	uCi/sec	3.14E+00	2.82E+00	2.76E+00	2.89E+00	
3.	Percent of applicable limit	%	6.02E+01	4.72E+01	3.92E+01	4.11E+01	



1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
GASEOUS EFFLUENTS-GROUND LEVEL RELEASES

CONTINUOUS MODE

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1. FISSION GASES					
H3	CI	2.44E+01	2.21E+01	2.19E+01	2.29E+01
Total for Period	CI	2.44E+01	2.21E+01	2.19E+01	2.29E+01

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2. IODINES					
Total for Period	CI	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
3. PARTICULATES					
MN54	CI	0.00E+00	0.00E+00	0.00E+00	1.14E-06
CO58	CI	0.00E+00	3.82E-10	0.00E+00	7.22E-08
CO60	CI	0.00E+00	7.95E-08	0.00E+00	6.64E-06
ZN65	CI	0.00E+00	0.00E+00	0.00E+00	6.36E-07
CS134	CI	0.00E+00	2.21E-07	0.00E+00	6.21E-08
CS137	CI	0.00E+00	5.49E-06	0.00E+00	1.64E-06

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
*AG110M	CI	0.00E+00	2.03E-08	0.00E+00	5.82E-08
*CO57	CI	0.00E+00	0.00E+00	0.00E+00	8.63E-09
Total for Period	CI	0.00E+00	5.81E-06	0.00E+00	1.03E-05

\* DENOTES SUPPLEMENTAL ISOTOPES



1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
GASEOUS EFFLUENTS-GROUND LEVEL RELEASES

BATCH MODE

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1. FISSION GASES					
H3	Ci	-----	2.37E-04	7.77E-04	6.31E-02
KR85	Ci	-----	4.56E-01	4.57E-01	1.44E-01
Total for Period	Ci	-----	4.56E-01	4.58E-01	2.07E-01
Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2. IODINES					
Total for Period	Ci	-----	0.00E+00	0.00E+00	0.00E+00
Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
3. PARTICULATES					
CO58	Ci	-----	1.24E-07	0.00E+00	0.00E+00
CS137	Ci	-----	1.67E-07	0.00E+00	0.00E+00
Total for Period	Ci	-----	2.91E-07	0.00E+00	0.00E+00





1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

BATCH

		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
A. FISSION AND ACTIVATION PRODUCTS							
1.	Total Release	Ci	7.76E-02	3.07E-02	2.20E-02	4.13E-02	15.5
2.	Average diluted concentration during period	uCi/ml	1.19E-08	3.66E-09	1.70E-09	4.25E-10	
3.	Percent of applicable limit	%	<1	<1	<1	<1	
B. TRITIUM							
1.	Total Release	Ci	4.71E+01	5.25E+01	5.51E+01	1.57E+02	10.1
2.	Average diluted concentration during period	uCi/ml	7.24E-06	6.28E-06	4.23E-06	1.62E-06	
3.	Percent of applicable limit	%	<1	<1	<1	<1	
C. DISSOLVED AND ENTRAINED GASES							
1.	Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0
2.	Average diluted concentration during period	uCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.	Percent of applicable limit	%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	



1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

BATCH

		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
D.	Gross Alpha Radioactivity Total Release	Ci	<9.30E-05	<1.70E-05	<1.24E-04	<1.20E-04	N/A
E.	Volume of Waste Released	Liters	1.02E+06	1.99E+06	2.13E+06	7.18E+05	2.0
F.	Volume of Dilution Water used During Period	Liters	6.51E+09	8.37E+09	1.30E+10	9.73E+10	3.48



1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

CONTINUOUS

		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
A.	FISSION AND ACTIVATION PRODUCTS						
1.	Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0
2.	Average diluted concentration during period	uCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.	Percent of applicable limit	%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
B.	TRITIUM						
1.	Total Release	Ci	1.53E-01	9.28E-02	1.64E-02	4.88E-02	17.1
2.	Average diluted concentration during period	uCi/ml	4.31E-10	9.40E-10	7.82E-11	2.44E-10	
3.	Percent of applicable limit	%	<1	<1	<1	<1	
		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
C.	DISSOLVED AND ENTRAINED GASES						
1.	Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0
2.	Average diluted concentration during period	uCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.	Percent of applicable limit	%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

CONTINUOUS

		Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
D.	Gross Alpha Radioactivity Total Release	Ci	<2.39E+01	<1.26E+01	<3.01E+00	<7.25E+00	N/A
E.	Volume of Waste Released	Liters	9.28E+07	4.89E+07	1.11E+07	2.96E+07	2.0
F.	Volume of Dilution Water used During Period	Liters	3.55E+11	9.87E+10	2.09E+11	2.00E+11	3.48



1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS

CONTINUOUS MODE

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
H3	Ci	1.53E-01	9.28E-02	1.64E-02	4.88E-02

1998 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS

BATCH MODE

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
H3	Ci	4.71E+01	5.25E+01	5.51E+01	1.57E+02
CR51	Ci	7.26E-04	0.00E+00	0.00E+00	0.00E+00
MN54	Ci	9.59E-04	1.93E-03	7.15E-04	1.49E-03
CO58	Ci	2.10E-02	6.73E-03	2.31E-03	9.47E-04
CO60	Ci	1.08E-02	7.26E-03	6.10E-03	1.95E-02
ZN65	Ci	4.37E-04	0.00E+00	0.00E+00	3.79E-04
ZR95	Ci	5.08E-04	0.00E+00	0.00E+00	0.00E+00

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
NB95	Ci	1.03E-03	8.23E-05	0.00E+00	6.12E-05
AG110M	Ci	2.07E-02	1.06E-02	9.43E-03	1.58E-02
CO57	Ci	1.16E-04	1.13E-04	3.51E-05	1.48E-05
SB124	Ci	7.35E-03	3.53E-04	8.17E-05	0.00E+00
SB125	Ci	1.38E-02	2.98E-03	2.80E-03	3.07E-03
CS134	Ci	9.92E-06	2.45E-04	0.00E+00	0.00E+00
CS137	Ci	1.02E-05	3.10E-04	5.54E-04	3.62E-06

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
*SN113	Ci	4.26E-05	0.00E+00	0.00E+00	0.00E+00
*AG108M	Ci	7.09E-05	6.40E-05	2.29E-05	2.75E-05
*SN117M	Ci	1.06E-05	0.00E+00	0.00E+00	0.00E+00

\* DENOTES SUPPLEMENTAL ISOTOPES-





## 1998 Annual Radioactive Effluent Release Report

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### Appendix 2: Summary of Maximum Individual Doses, First Quarter 1998

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (Toward)	Percent of Applicable limit	Limit (mrem) QTR
Liquid	Total Body	4.11 E-03	Child	Receptor 1	2.7 E-01	1.5 E+00
Liquid	GI-Tract	3.01 E-02	Adult	Receptor 1	6.0 E-02	5.0 E+00
Noble Gas	Air dose (Gamma-mrad)	0 E+00		651 N	0 E+00	5.0 E+00
Noble Gas	Air Dose (Beta-mrad)	0 E+00		651 N	0 E+00	1.0E+01
Iodines and Particulates	T. Body	9.77 E-03	Child	659 N	1.3E-01	7.5E+00



## FOR RECEPTOR NUMBER 1

## LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 1 1 1 END DATE 98 33124

BONE LIVER T.BODY THYRD KIDNEY LUNG GI-LLI SKIN

## WATER

ADULT 2.5E-05 2.5E-03 2.5E-03 2.4E-03 2.4E-03 2.4E-03 3.9E-03 0.0E+00

TEEN 2.4E-05 1.7E-03 1.8E-03 1.7E-03 1.7E-03 1.7E-03 2.6E-03 0.0E+00

CHILD 6.7E-05 3.3E-03 3.4E-03 3.3E-03 3.3E-03 3.3E-03 4.0E-03 0.0E+00

INFANT 7.8E-05 3.3E-03 3.4E-03 3.2E-03 3.2E-03 3.3E-03 3.7E-03 0.0E+00

## SHORE

ADULT 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.3E-04

TEEN 6.2E-04 6.2E-04 6.2E-04 6.2E-04 6.2E-04 6.2E-04 6.2E-04 7.3E-04

CHILD 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-04

INFANT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

## FW SPT FISH

ADULT 2.7E-04 9.9E-04 7.0E-04 1.6E-04 5.9E-04 1.8E-04 2.6E-02 0.0E+00

TEEN 2.6E-04 9.5E-04 6.2E-04 1.3E-04 5.3E-04 1.5E-04 1.8E-02 0.0E+00

CHILD 2.9E-04 7.7E-04 5.7E-04 1.0E-04 4.2E-04 1.2E-04 6.6E-03 0.0E+00

INFANT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

## LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 1 1 1 END DATE 98 33124

BONE LIVER T.BODY THYRD KIDNEY LUNG GI-LLI SKIN

## TOTAL

ADULT 4.0E-04 3.6E-03 3.3E-03 2.7E-03 3.1E-03 2.7E-03 3.0E-02 1.3E-04

TEEN 9.0E-04 3.3E-03 3.0E-03 2.5E-03 2.9E-03 2.5E-03 2.2E-02 7.3E-04

CHILD 4.8E-04 4.2E-03 4.1E-03 3.5E-03 3.8E-03 3.6E-03 1.1E-02 1.5E-04

INFANT 7.8E-05 3.3E-03 3.4E-03 3.2E-03 3.2E-03 3.3E-03 3.7E-03 0.0E+00

## FOR RECEPTOR NUMBER 1

## LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 1 1 1 END DATE 98 33124

BONE LIVER T.BODY THYRD KIDNEY LUNG GI-LLI SKIN

## WATER

ADULT 2.5E-05 2.5E-03 2.5E-03 2.4E-03 2.4E-03 2.4E-03 3.9E-03 0.0E+00

TEEN 2.4E-05 1.7E-03 1.8E-03 1.7E-03 1.7E-03 1.7E-03 2.6E-03 0.0E+00

CHILD 6.7E-05 3.3E-03 3.4E-03 3.3E-03 3.3E-03 3.3E-03 4.0E-03 0.0E+00

INFANT 7.8E-05 3.3E-03 3.4E-03 3.2E-03 3.2E-03 3.3E-03 3.7E-03 0.0E+00

## SHORE

ADULT 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.3E-04

TEEN 6.2E-04 6.2E-04 6.2E-04 6.2E-04 6.2E-04 6.2E-04 6.2E-04 7.3E-04

CHILD 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-04

INFANT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

## FW SPT FISH

ADULT 2.7E-04 9.9E-04 7.0E-04 1.6E-04 5.9E-04 1.8E-04 2.6E-02 0.0E+00

TEEN 2.6E-04 9.5E-04 6.2E-04 1.3E-04 5.3E-04 1.5E-04 1.8E-02 0.0E+00

CHILD 2.9E-04 7.7E-04 5.7E-04 1.0E-04 4.2E-04 1.2E-04 6.6E-03 0.0E+00

INFANT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

## LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 1 1 1 END DATE 98 33124

BONE LIVER T.BODY THYRD KIDNEY LUNG GI-LLI SKIN

## TOTAL

ADULT 4.0E-04 3.6E-03 3.3E-03 2.7E-03 3.1E-03 2.7E-03 3.0E-02 1.3E-04

TEEN 9.0E-04 3.3E-03 3.0E-03 2.5E-03 2.9E-03 2.5E-03 2.2E-02 7.3E-04



CHILD	4.8E-04	4.2E-03	4.1E-03	3.5E-03	3.8E-03	3.6E-03	1.1E-02	1.5E-04
INFANT	7.8E-05	3.3E-03	3.4E-03	3.2E-03	3.2E-03	3.3E-03	3.7E-03	0.0E+00

FOR RECEPTOR NUMBER 2

LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 1 1 1 END DATE 98 33124

BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
------	-------	--------	-------	--------	------	--------	------

LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 1 1 1 END DATE 98 33124

BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
------	-------	--------	-------	--------	------	--------	------

TOTAL

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
-------	---------	---------	---------	---------	---------	---------	---------	---------

TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
------	---------	---------	---------	---------	---------	---------	---------	---------

CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
-------	---------	---------	---------	---------	---------	---------	---------	---------

INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
--------	---------	---------	---------	---------	---------	---------	---------	---------



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0

12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0

12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DOSE TYPE

ENTER: [GA] GAMMA

[BE] BETA

[RETURN] GO BACK TO PREVIOUS OPTION

BE

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0

DOSE ACCUMULATION FOR BETA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0

DOSE ACCUMULATION FOR BETA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0  
12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

THIS IS LAST ACCUMULATION  
 GAS DOSE ACCU, START DATE 98 1 1 1 END DATE 98 33124  
 NUMBER OF GOOD HOURS OF GASEOUS DOSE ACCUMULATION 2160  
 NUMBER OF BAD HOURS - NO GAS DOSE ACCUMULATION... 0  
 DOSE RATIO (NGOOD+NBAD)/NGOOD IS..... 1.0000  
 DOSES ARE..... NOT RATIOED

THIS IS LAST ACCUMULATION  
 INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
 FOR DATES 98 1 1 1 THRU 98 33124  
 T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
 ADULT 1.6E-04 1.6E-04 0.0E+00 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
 TEEN 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
 CHILD 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
 ADULT 2.3E-05 2.3E-05 0.0E+00 2.3E-05 2.3E-05 2.3E-05 2.3E-05 0.0E+00  
 TEEN 1.4E-05 1.4E-05 0.0E+00 1.4E-05 1.4E-05 1.4E-05 1.4E-05 0.0E+00  
 CHILD 1.6E-05 1.6E-05 0.0E+00 1.6E-05 1.6E-05 1.6E-05 1.6E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
 ADULT 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 TEEN 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
 CHILD 2.9E-04 2.9E-04 0.0E+00 2.9E-04 2.9E-04 2.9E-04 2.9E-04 0.0E+00  
 INFNT 4.4E-04 4.4E-04 0.0E+00 4.4E-04 4.4E-04 4.4E-04 4.4E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
 ADULT 2.9E-04 2.9E-04 0.0E+00 2.9E-04 2.9E-04 2.9E-04 2.9E-04 0.0E+00  
 TEEN 3.7E-04 3.7E-04 0.0E+00 3.7E-04 3.7E-04 3.7E-04 3.7E-04 0.0E+00  
 CHILD 5.9E-04 5.9E-04 0.0E+00 5.9E-04 5.9E-04 5.9E-04 5.9E-04 0.0E+00  
 INFNT 9.0E-04 9.0E-04 0.0E+00 9.0E-04 9.0E-04 9.0E-04 9.0E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 3.7E-03 3.7E-03 0.0E+00 3.7E-03 3.7E-03 3.7E-03 3.7E-03 0.0E+00  
 TEEN 3.7E-03 3.7E-03 0.0E+00 3.7E-03 3.7E-03 3.7E-03 3.7E-03 0.0E+00  
 CHILD 3.3E-03 3.3E-03 0.0E+00 3.3E-03 3.3E-03 3.3E-03 3.3E-03 0.0E+00  
 INFNT 1.9E-03 1.9E-03 0.0E+00 1.9E-03 1.9E-03 1.9E-03 1.9E-03 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 4.3E-03 4.3E-03 0.0E+00 4.3E-03 4.3E-03 4.3E-03 4.3E-03 0.0E+00  
 TEEN 4.4E-03 4.4E-03 0.0E+00 4.4E-03 4.4E-03 4.4E-03 4.4E-03 0.0E+00



CHILD	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00
INFNT	3.2E-03	3.2E-03	0.0E+00	3.2E-03	3.2E-03	3.2E-03	3.2E-03	0.0E+00

# SUBTOTALS

ADULT	4.3E-03	4.3E-03	0.0E+00	4.3E-03	4.3E-03	4.3E-03	4.3E-03	0.0E+00
TEEN	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00
CHILD	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00
INFNT	3.2E-03	3.2E-03	0.0E+00	3.2E-03	3.2E-03	3.2E-03	3.2E-03	0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 814. METERS WINDS TOWARD NNE

ADULT	3.2E-03	3.2E-03	0.0E+00	3.2E-03	3.2E-03	3.2E-03	3.2E-03	0.0E+00
TEEN	3.7E-03	3.7E-03	0.0E+00	3.7E-03	3.7E-03	3.7E-03	3.7E-03	0.0E+00
CHILD	5.8E-03	5.8E-03	0.0E+00	5.8E-03	5.8E-03	5.8E-03	5.8E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NNE

ADULT	1.5E-05	1.5E-05	0.0E+00	1.5E-05	1.5E-05	1.5E-05	1.5E-05	0.0E+00
TEEN	9.0E-06	9.0E-06	0.0E+00	9.0E-06	9.0E-06	9.0E-06	9.0E-06	0.0E+00
CHILD	1.1E-05	1.1E-05	0.0E+00	1.1E-05	1.1E-05	1.1E-05	1.1E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE

ADULT	9.2E-05	9.2E-05	0.0E+00	9.2E-05	9.2E-05	9.2E-05	9.2E-05	0.0E+00
TEEN	1.2E-04	1.2E-04	0.0E+00	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
CHILD	1.9E-04	1.9E-04	0.0E+00	1.9E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
INFNT	2.9E-04	2.9E-04	0.0E+00	2.9E-04	2.9E-04	2.9E-04	2.9E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE

ADULT	1.9E-04	1.9E-04	0.0E+00	1.9E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
TEEN	2.4E-04	2.4E-04	0.0E+00	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
CHILD	3.8E-04	3.8E-04	0.0E+00	3.8E-04	3.8E-04	3.8E-04	3.8E-04	0.0E+00
INFNT	5.9E-04	5.9E-04	0.0E+00	5.9E-04	5.9E-04	5.9E-04	5.9E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	2.5E-03	2.5E-03	0.0E+00	2.5E-03	2.5E-03	2.5E-03	2.5E-03	0.0E+00
TEEN	2.5E-03	2.5E-03	0.0E+00	2.5E-03	2.5E-03	2.5E-03	2.5E-03	0.0E+00
CHILD	2.2E-03	2.2E-03	0.0E+00	2.2E-03	2.2E-03	2.2E-03	2.2E-03	0.0E+00
INFNT	1.3E-03	1.3E-03	0.0E+00	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00

# SUBTOTALS (NO PLUME)

ADULT	6.0E-03	6.0E-03	0.0E+00	6.0E-03	6.0E-03	6.0E-03	6.0E-03	0.0E+00
TEEN	6.6E-03	6.6E-03	0.0E+00	6.6E-03	6.6E-03	6.6E-03	6.6E-03	0.0E+00
CHILD	8.6E-03	8.6E-03	0.0E+00	8.6E-03	8.6E-03	8.6E-03	8.6E-03	0.0E+00





INFNT 2.2E-03 2.2E-03 0.0E+00 2.2E-03 2.2E-03 2.2E-03 2.2E-03 0.0E+00

TOTALS

ADULT 6.0E-03 6.0E-03 0.0E+00 6.0E-03 6.0E-03 6.0E-03 6.0E-03 0.0E+00  
TEEN 6.6E-03 6.6E-03 0.0E+00 6.6E-03 6.6E-03 6.6E-03 6.6E-03 0.0E+00  
CHILD 8.6E-03 8.6E-03 0.0E+00 8.6E-03 8.6E-03 8.6E-03 8.6E-03 0.0E+00  
INFNT 2.2E-03 2.2E-03 0.0E+00 2.2E-03 2.2E-03 2.2E-03 2.2E-03 0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 1052. METERS WINDS TOWARD NE  
ADULT 1.5E-03 1.5E-03 0.0E+00 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00  
TEEN 1.7E-03 1.7E-03 0.0E+00 1.7E-03 1.7E-03 1.7E-03 1.7E-03 0.0E+00  
CHILD 2.7E-03 2.7E-03 0.0E+00 2.7E-03 2.7E-03 2.7E-03 2.7E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NE  
ADULT 1.1E-05 1.1E-05 0.0E+00 1.1E-05 1.1E-05 1.1E-05 1.1E-05 0.0E+00  
TEEN 6.4E-06 6.4E-06 0.0E+00 6.4E-06 6.4E-06 6.4E-06 6.4E-06 0.0E+00  
CHILD 7.7E-06 7.7E-06 0.0E+00 7.7E-06 7.7E-06 7.7E-06 7.7E-06 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE  
ADULT 6.4E-05 6.4E-05 0.0E+00 6.4E-05 6.4E-05 6.4E-05 6.4E-05 0.0E+00  
TEEN 8.4E-05 8.4E-05 0.0E+00 8.4E-05 8.4E-05 8.4E-05 8.4E-05 0.0E+00  
CHILD 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
INFNT 2.0E-04 2.0E-04 0.0E+00 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE  
ADULT 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
TEEN 1.7E-04 1.7E-04 0.0E+00 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
CHILD 2.7E-04 2.7E-04 0.0E+00 2.7E-04 2.7E-04 2.7E-04 2.7E-04 0.0E+00  
INFNT 4.1E-04 4.1E-04 0.0E+00 4.1E-04 4.1E-04 4.1E-04 4.1E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00  
TEEN 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00  
CHILD 8.9E-04 8.9E-04 0.0E+00 8.9E-04 8.9E-04 8.9E-04 8.9E-04 0.0E+00  
INFNT 5.1E-04 5.1E-04 0.0E+00 5.1E-04 5.1E-04 5.1E-04 5.1E-04 0.0E+00

BTOTALS (NO PLUME)

ADULT 2.7E-03 2.7E-03 0.0E+00 2.7E-03 2.7E-03 2.7E-03 2.7E-03 0.0E+00  
TEEN 3.0E-03 3.0E-03 0.0E+00 3.0E-03 3.0E-03 3.0E-03 3.0E-03 0.0E+00  
CHILD 4.0E-03 4.0E-03 0.0E+00 4.0E-03 4.0E-03 4.0E-03 4.0E-03 0.0E+00  
INFNT 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00



## TOTALS

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	2.7E-03	2.7E-03	0.0E+00	2.7E-03	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00											
TEEN	3.0E-03	3.0E-03	0.0E+00	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	0.0E+00											
CHILD	4.0E-03	4.0E-03	0.0E+00	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	0.0E+00											
INFNT	1.1E-03	1.1E-03	0.0E+00	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00											

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= .1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	

GROUND PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	

VEGET PATHWAY, DIST GP= 1, 1852. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	6.8E-04	6.8E-04	0.0E+00	6.8E-04	6.8E-04	6.8E-04	6.8E-04	6.8E-04	0.0E+00											
TEEN	7.8E-04	7.8E-04	0.0E+00	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	0.0E+00											
CHILD	1.2E-03	1.2E-03	0.0E+00	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	0.0E+00											
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00											

MEAT PATHWAY, DIST GP= 1, 3862. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	3.2E-05	3.2E-05	0.0E+00	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	0.0E+00											
TEEN	1.9E-05	1.9E-05	0.0E+00	1.9E-05	1.9E-05	1.9E-05	1.9E-05	1.9E-05	0.0E+00											
CHILD	2.3E-05	2.3E-05	0.0E+00	2.3E-05	2.3E-05	2.3E-05	2.3E-05	2.3E-05	0.0E+00											
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00											

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	6.9E-05	6.9E-05	0.0E+00	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	0.0E+00											
TEEN	8.9E-05	8.9E-05	0.0E+00	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	0.0E+00											
CHILD	1.4E-04	1.4E-04	0.0E+00	1.4E-04	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00											
INFNT	2.1E-04	2.1E-04	0.0E+00	2.1E-04	2.1E-04	2.1E-04	2.1E-04	2.1E-04	0.0E+00											

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	1.4E-04	1.4E-04	0.0E+00	1.4E-04	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00											
TEEN	1.8E-04	1.8E-04	0.0E+00	1.8E-04	1.8E-04	1.8E-04	1.8E-04	1.8E-04	0.0E+00											
CHILD	2.9E-04	2.9E-04	0.0E+00	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	0.0E+00											
INFNT	4.4E-04	4.4E-04	0.0E+00	4.4E-04	4.4E-04	4.4E-04	4.4E-04	4.4E-04	0.0E+00											

INHAL PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	4.1E-04	4.1E-04	0.0E+00	4.1E-04	4.1E-04	4.1E-04	4.1E-04	4.1E-04	0.0E+00											
TEEN	4.1E-04	4.1E-04	0.0E+00	4.1E-04	4.1E-04	4.1E-04	4.1E-04	4.1E-04	0.0E+00											
CHILD	3.7E-04	3.7E-04	0.0E+00	3.7E-04	3.7E-04	3.7E-04	3.7E-04	3.7E-04	0.0E+00											
INFNT	2.1E-04	2.1E-04	0.0E+00	2.1E-04	2.1E-04	2.1E-04	2.1E-04	2.1E-04	0.0E+00											

BTOTALS (NO PLUME)

	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
ADULT	1.3E-03	1.3E-03	0.0E+00	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00											
TEEN	1.5E-03	1.5E-03	0.0E+00	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00											
CHILD	2.0E-03	2.0E-03	0.0E+00	2.0E-03	2.0E-03	2.0E-03	2.0E-03	2.0E-03	0.0E+00											
INFNT	8.6E-04	8.6E-04	0.0E+00	8.6E-04	8.6E-04	8.6E-04	8.6E-04	8.6E-04	0.0E+00											



TOTALS

	ADULT	TEEN	CHILD	INFNT
1.3E-03	1.3E-03	1.5E-03	2.0E-03	8.6E-04
1.3E-03	1.3E-03	1.5E-03	2.0E-03	8.6E-04
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1.3E-03	1.3E-03	1.5E-03	2.0E-03	8.6E-04
1.3E-03	1.3E-03	1.5E-03	2.0E-03	8.6E-04
1.3E-03	1.3E-03	1.5E-03	2.0E-03	8.6E-04
1.3E-03	1.3E-03	1.5E-03	2.0E-03	8.6E-04
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 1705. METERS WINDS TOWARD E

ADULT	1.3E-03	1.3E-03	0.0E+00	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00
TEEN	1.5E-03	1.5E-03	0.0E+00	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00
CHILD	2.3E-03	2.3E-03	0.0E+00	2.3E-03	2.3E-03	2.3E-03	2.3E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

WATER PATHWAY, DIST GP= 1, 6810. METERS WINDS TOWARD E

ADULT	2.3E-05	2.3E-05	0.0E+00	2.3E-05	2.3E-05	2.3E-05	2.3E-05	0.0E+00
TEEN	1.4E-05	1.4E-05	0.0E+00	1.4E-05	1.4E-05	1.4E-05	1.4E-05	0.0E+00
CHILD	1.7E-05	1.7E-05	0.0E+00	1.7E-05	1.7E-05	1.7E-05	1.7E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	1.2E-04	1.2E-04	0.0E+00	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
TEEN	1.5E-04	1.5E-04	0.0E+00	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
CHILD	2.4E-04	2.4E-04	0.0E+00	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
INFNT	3.6E-04	3.6E-04	0.0E+00	3.6E-04	3.6E-04	3.6E-04	3.6E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	2.4E-04	2.4E-04	0.0E+00	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
TEEN	3.1E-04	3.1E-04	0.0E+00	3.1E-04	3.1E-04	3.1E-04	3.1E-04	0.0E+00
CHILD	4.9E-04	4.9E-04	0.0E+00	4.9E-04	4.9E-04	4.9E-04	4.9E-04	0.0E+00
INFNT	7.4E-04	7.4E-04	0.0E+00	7.4E-04	7.4E-04	7.4E-04	7.4E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	7.1E-04	7.1E-04	0.0E+00	7.1E-04	7.1E-04	7.1E-04	7.1E-04	0.0E+00
TEEN	7.2E-04	7.2E-04	0.0E+00	7.2E-04	7.2E-04	7.2E-04	7.2E-04	0.0E+00
CHILD	6.4E-04	6.4E-04	0.0E+00	6.4E-04	6.4E-04	6.4E-04	6.4E-04	0.0E+00
INFNT	3.6E-04	3.6E-04	0.0E+00	3.6E-04	3.6E-04	3.6E-04	3.6E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.4E-03	2.4E-03	0.0E+00	2.4E-03	2.4E-03	2.4E-03	2.4E-03	0.0E+00
TEEN	2.7E-03	2.7E-03	0.0E+00	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00
CHILD	3.7E-03	3.7E-03	0.0E+00	3.7E-03	3.7E-03	3.7E-03	3.7E-03	0.0E+00
INFNT	1.5E-03	1.5E-03	0.0E+00	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00

TOTALS



	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT	ADULT	TEEN	CHILD	INFNT
	2.4E-03	2.7E-03	3.7E-03	1.5E-03	2.4E-03	2.7E-03	3.7E-03	1.5E-03	2.4E-03	2.7E-03	3.7E-03	1.5E-03	2.4E-03	2.7E-03	3.7E-03	1.5E-03	2.4E-03	2.7E-03	3.7E-03	1.5E-03

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 1628. METERS WINDS TOWARD ESE

ADULT	7.8E-04	8.9E-04	1.4E-03	0.0E+00	7.8E-04	8.9E-04	1.4E-03	0.0E+00
TEEN	8.9E-04	8.9E-04	1.4E-03	0.0E+00	8.9E-04	8.9E-04	1.4E-03	0.0E+00
CHILD	1.4E-03	1.4E-03	0.0E+00	0.0E+00	1.4E-03	1.4E-03	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

DEAT PATHWAY, DIST GP= 1, 2434. METERS WINDS TOWARD ESE

ADULT	6.0E-05	3.6E-05	4.3E-05	0.0E+00	6.0E-05	3.6E-05	4.3E-05	0.0E+00
TEEN	3.6E-05	3.6E-05	4.3E-05	0.0E+00	3.6E-05	3.6E-05	4.3E-05	0.0E+00
CHILD	4.3E-05	4.3E-05	0.0E+00	0.0E+00	4.3E-05	4.3E-05	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

ADULT	6.4E-05	8.3E-05	1.3E-04	2.0E-04	6.4E-05	8.3E-05	1.3E-04	2.0E-04
TEEN	8.3E-05	8.3E-05	1.3E-04	2.0E-04	8.3E-05	8.3E-05	1.3E-04	2.0E-04
CHILD	1.3E-04	1.3E-04	0.0E+00	0.0E+00	1.3E-04	1.3E-04	0.0E+00	0.0E+00
INFNT	2.0E-04	2.0E-04	0.0E+00	0.0E+00	2.0E-04	2.0E-04	0.0E+00	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

ADULT	1.3E-04	1.7E-04	2.7E-04	4.1E-04	1.3E-04	1.7E-04	2.7E-04	4.1E-04
TEEN	1.7E-04	1.7E-04	2.7E-04	4.1E-04	1.7E-04	1.7E-04	2.7E-04	4.1E-04
CHILD	2.7E-04	2.7E-04	0.0E+00	0.0E+00	2.7E-04	2.7E-04	0.0E+00	0.0E+00
INFNT	4.1E-04	4.1E-04	0.0E+00	0.0E+00	4.1E-04	4.1E-04	0.0E+00	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	4.3E-04	4.3E-04	3.8E-04	2.2E-04	4.3E-04	4.3E-04	3.8E-04	2.2E-04
TEEN	4.3E-04	4.3E-04	3.8E-04	2.2E-04	4.3E-04	4.3E-04	3.8E-04	2.2E-04
CHILD	3.8E-04	3.8E-04	0.0E+00	0.0E+00	3.8E-04	3.8E-04	0.0E+00	0.0E+00
INFNT	2.2E-04	2.2E-04	0.0E+00	0.0E+00	2.2E-04	2.2E-04	0.0E+00	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	1.5E-03	1.6E-03	2.2E-03	8.2E-04	1.5E-03	1.6E-03	2.2E-03	8.2E-04
TEEN	1.6E-03	1.6E-03	2.2E-03	8.2E-04	1.6E-03	1.6E-03	2.2E-03	8.2E-04
CHILD	2.2E-03	2.2E-03	0.0E+00	0.0E+00	2.2E-03	2.2E-03	0.0E+00	0.0E+00
INFNT	8.2E-04	8.2E-04	0.0E+00	0.0E+00	8.2E-04	8.2E-04	0.0E+00	0.0E+00

TOTALS

ADULT	1.5E-03	1.5E-03	0.0E+00	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00
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	TEEN	CHILD	INFNT
1.6E-03	1.6E-03	2.2E-03	8.2E-04
1.6E-03	2.2E-03	8.2E-04	0.0E+00
0.0E+00	0.0E+00	0.0E+00	0.0E+00
1.6E-03	2.2E-03	8.2E-04	0.0E+00
1.6E-03	2.2E-03	8.2E-04	0.0E+00
1.6E-03	2.2E-03	8.2E-04	0.0E+00
1.6E-03	2.2E-03	8.2E-04	0.0E+00
0.0E+00	0.0E+00	0.0E+00	0.0E+00

# THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 914. METERS WINDS TOWARD SE

ADULT	1.6E-03	1.6E-03	0.0E+00	1.6E-03	1.6E-03	1.6E-03	1.6E-03	0.0E+00
TEEN	1.9E-03	1.9E-03	0.0E+00	1.9E-03	1.9E-03	1.9E-03	1.9E-03	0.0E+00
CHILD	2.9E-03	2.9E-03	0.0E+00	2.9E-03	2.9E-03	2.9E-03	2.9E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 4354. METERS WINDS TOWARD SE

ADULT	2.0E-05	2.0E-05	0.0E+00	2.0E-05	2.0E-05	2.0E-05	2.0E-05	0.0E+00
TEEN	1.2E-05	1.2E-05	0.0E+00	1.2E-05	1.2E-05	1.2E-05	1.2E-05	0.0E+00
CHILD	1.5E-05	1.5E-05	0.0E+00	1.5E-05	1.5E-05	1.5E-05	1.5E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SE

ADULT	5.3E-05	5.3E-05	0.0E+00	5.3E-05	5.3E-05	5.3E-05	5.3E-05	0.0E+00
TEEN	6.9E-05	6.9E-05	0.0E+00	6.9E-05	6.9E-05	6.9E-05	6.9E-05	0.0E+00
CHILD	1.1E-04	1.1E-04	0.0E+00	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
INFNT	1.7E-04	1.7E-04	0.0E+00	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SE

ADULT	1.1E-04	1.1E-04	0.0E+00	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
TEEN	1.4E-04	1.4E-04	0.0E+00	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00
CHILD	2.2E-04	2.2E-04	0.0E+00	2.2E-04	2.2E-04	2.2E-04	2.2E-04	0.0E+00
INFNT	3.4E-04	3.4E-04	0.0E+00	3.4E-04	3.4E-04	3.4E-04	3.4E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE

ADULT	6.4E-04	6.4E-04	0.0E+00	6.4E-04	6.4E-04	6.4E-04	6.4E-04	0.0E+00
TEEN	6.4E-04	6.4E-04	0.0E+00	6.4E-04	6.4E-04	6.4E-04	6.4E-04	0.0E+00
CHILD	5.7E-04	5.7E-04	0.0E+00	5.7E-04	5.7E-04	5.7E-04	5.7E-04	0.0E+00
INFNT	3.3E-04	3.3E-04	0.0E+00	3.3E-04	3.3E-04	3.3E-04	3.3E-04	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	2.4E-03	2.4E-03	0.0E+00	2.4E-03	2.4E-03	2.4E-03	2.4E-03	0.0E+00
TEEN	2.7E-03	2.7E-03	0.0E+00	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00
CHILD	3.8E-03	3.8E-03	0.0E+00	3.8E-03	3.8E-03	3.8E-03	3.8E-03	0.0E+00
INFNT	8.3E-04	8.3E-04	0.0E+00	8.3E-04	8.3E-04	8.3E-04	8.3E-04	0.0E+00

## TOTALS

ADULT	2.4E-03	2.4E-03	0.0E+00	2.4E-03	2.4E-03	2.4E-03	2.4E-03	0.0E+00
TEEN	2.7E-03	2.7E-03	0.0E+00	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00



	CHILD	3.8E-03	3.8E-03	0.0E+00	3.8E-03	3.8E-03	3.8E-03	3.8E-03	0.0E+00
INFNT	8.3E-04	8.3E-04	0.0E+00	8.3E-04	8.3E-04	8.3E-04	8.3E-04	8.3E-04	0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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	PLUME	PATHWAY,	DIST	GP=	1,	1507. METERS	WINDS	TOWARD	SSE
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

	GROUND	PATHWAY,	DIST	GP=	1,	1507. METERS	WINDS	TOWARD	SSE
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

	VEGET	PATHWAY,	DIST	GP=	1,	1093. METERS	WINDS	TOWARD	SSE
ADULT	1.7E-03	1.7E-03	0.0E+00	1.7E-03	1.7E-03	1.7E-03	1.7E-03	1.7E-03	0.0E+00
TEEN	2.0E-03	2.0E-03	0.0E+00	2.0E-03	2.0E-03	2.0E-03	2.0E-03	2.0E-03	0.0E+00
CHILD	3.1E-03	3.1E-03	0.0E+00	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

	MEAT	PATHWAY,	DIST	GP=	1,	1093. METERS	WINDS	TOWARD	SSE
ADULT	2.5E-04	2.5E-04	0.0E+00	2.5E-04	2.5E-04	2.5E-04	2.5E-04	2.5E-04	0.0E+00
TEEN	1.5E-04	1.5E-04	0.0E+00	1.5E-04	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
CHILD	1.8E-04	1.8E-04	0.0E+00	1.8E-04	1.8E-04	1.8E-04	1.8E-04	1.8E-04	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

	COW	PATHWAY,	DIST	GP=	1,	4091. METERS	WINDS	TOWARD	SSE
ADULT	7.5E-05	7.5E-05	0.0E+00	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	0.0E+00
TEEN	9.8E-05	9.8E-05	0.0E+00	9.8E-05	9.8E-05	9.8E-05	9.8E-05	9.8E-05	0.0E+00
CHILD	1.5E-04	1.5E-04	0.0E+00	1.5E-04	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
INFNT	2.4E-04	2.4E-04	0.0E+00	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00

	GOAT	PATHWAY,	DIST	GP=	1,	4091. METERS	WINDS	TOWARD	SSE
ADULT	1.5E-04	1.5E-04	0.0E+00	1.5E-04	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
TEEN	2.0E-04	2.0E-04	0.0E+00	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	0.0E+00
CHILD	3.1E-04	3.1E-04	0.0E+00	3.1E-04	3.1E-04	3.1E-04	3.1E-04	3.1E-04	0.0E+00
INFNT	4.8E-04	4.8E-04	0.0E+00	4.8E-04	4.8E-04	4.8E-04	4.8E-04	4.8E-04	0.0E+00

	INHAL	PATHWAY,	DIST	GP=	1,	1507. METERS	WINDS	TOWARD	SSE
ADULT	5.8E-04	5.8E-04	0.0E+00	5.8E-04	5.8E-04	5.8E-04	5.8E-04	5.8E-04	0.0E+00
TEEN	5.8E-04	5.8E-04	0.0E+00	5.8E-04	5.8E-04	5.8E-04	5.8E-04	5.8E-04	0.0E+00
CHILD	5.1E-04	5.1E-04	0.0E+00	5.1E-04	5.1E-04	5.1E-04	5.1E-04	5.1E-04	0.0E+00
INFNT	2.9E-04	2.9E-04	0.0E+00	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.8E-03	2.8E-03	0.0E+00	2.8E-03	2.8E-03	2.8E-03	2.8E-03	2.8E-03	0.0E+00
TEEN	3.0E-03	3.0E-03	0.0E+00	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	0.0E+00
CHILD	4.3E-03	4.3E-03	0.0E+00	4.3E-03	4.3E-03	4.3E-03	4.3E-03	4.3E-03	0.0E+00
INFNT	1.0E-03	1.0E-03	0.0E+00	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	0.0E+00

TOTALS

ADULT	2.8E-03	2.8E-03	0.0E+00	2.8E-03	2.8E-03	2.8E-03	2.8E-03	2.8E-03	0.0E+00
TEEN	3.0E-03	3.0E-03	0.0E+00	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	0.0E+00
CHILD	4.3E-03	4.3E-03	0.0E+00	4.3E-03	4.3E-03	4.3E-03	4.3E-03	4.3E-03	0.0E+00



INFNT 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 863. METERS WINDS TOWARD S  
ADULT 2.0E-03 2.0E-03 0.0E+00 2.0E-03 2.0E-03 2.0E-03 2.0E-03 0.0E+00  
TEEN 2.3E-03 2.3E-03 0.0E+00 2.3E-03 2.3E-03 2.3E-03 2.3E-03 0.0E+00  
CHILD 3.5E-03 3.5E-03 0.0E+00 3.5E-03 3.5E-03 3.5E-03 3.5E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 6115. METERS WINDS TOWARD S  
ADULT 1.4E-05 1.4E-05 0.0E+00 1.4E-05 1.4E-05 1.4E-05 1.4E-05 0.0E+00  
TEEN 8.2E-06 8.2E-06 0.0E+00 8.2E-06 8.2E-06 8.2E-06 8.2E-06 0.0E+00  
CHILD 9.9E-06 9.9E-06 0.0E+00 9.9E-06 9.9E-06 9.9E-06 9.9E-06 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S  
ADULT 6.1E-05 6.1E-05 0.0E+00 6.1E-05 6.1E-05 6.1E-05 6.1E-05 0.0E+00  
TEEN 7.9E-05 7.9E-05 0.0E+00 7.9E-05 7.9E-05 7.9E-05 7.9E-05 0.0E+00  
CHILD 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
INFNT 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S  
ADULT 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
TEEN 1.6E-04 1.6E-04 0.0E+00 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
CHILD 2.5E-04 2.5E-04 0.0E+00 2.5E-04 2.5E-04 2.5E-04 2.5E-04 0.0E+00  
INFNT 3.9E-04 3.9E-04 0.0E+00 3.9E-04 3.9E-04 3.9E-04 3.9E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 8.5E-04 8.5E-04 0.0E+00 8.5E-04 8.5E-04 8.5E-04 8.5E-04 0.0E+00  
TEEN 8.5E-04 8.5E-04 0.0E+00 8.5E-04 8.5E-04 8.5E-04 8.5E-04 0.0E+00  
CHILD 7.5E-04 7.5E-04 0.0E+00 7.5E-04 7.5E-04 7.5E-04 7.5E-04 0.0E+00  
INFNT 4.3E-04 4.3E-04 0.0E+00 4.3E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 3.0E-03 3.0E-03 0.0E+00 3.0E-03 3.0E-03 3.0E-03 3.0E-03 0.0E+00  
TEEN 3.4E-03 3.4E-03 0.0E+00 3.4E-03 3.4E-03 3.4E-03 3.4E-03 0.0E+00  
CHILD 4.7E-03 4.7E-03 0.0E+00 4.7E-03 4.7E-03 4.7E-03 4.7E-03 0.0E+00  
INFNT 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00

TOTALS

ADULT 3.0E-03 3.0E-03 0.0E+00 3.0E-03 3.0E-03 3.0E-03 3.0E-03 0.0E+00  
TEEN 3.4E-03 3.4E-03 0.0E+00 3.4E-03 3.4E-03 3.4E-03 3.4E-03 0.0E+00  
CHILD 4.7E-03 4.7E-03 0.0E+00 4.7E-03 4.7E-03 4.7E-03 4.7E-03 0.0E+00  
INFNT 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00



## THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 770. METERS WINDS TOWARD SSW  
 ADULT 2.7E-03 2.7E-03 0.0E+00 2.7E-03 2.7E-03 2.7E-03 2.7E-03 0.0E+00  
 TEEN 3.0E-03 3.0E-03 0.0E+00 3.0E-03 3.0E-03 3.0E-03 3.0E-03 0.0E+00  
 CHILD 4.7E-03 4.7E-03 0.0E+00 4.7E-03 4.7E-03 4.7E-03 4.7E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SSW  
 ADULT 1.0E-05 1.0E-05 0.0E+00 1.0E-05 1.0E-05 1.0E-05 1.0E-05 0.0E+00  
 TEEN 6.1E-06 6.1E-06 0.0E+00 6.1E-06 6.1E-06 6.1E-06 6.1E-06 0.0E+00  
 CHILD 7.4E-06 7.4E-06 0.0E+00 7.4E-06 7.4E-06 7.4E-06 7.4E-06 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW  
 ADULT 6.6E-05 6.6E-05 0.0E+00 6.6E-05 6.6E-05 6.6E-05 6.6E-05 0.0E+00  
 TEEN 8.6E-05 8.6E-05 0.0E+00 8.6E-05 8.6E-05 8.6E-05 8.6E-05 0.0E+00  
 CHILD 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 INFNT 2.1E-04 2.1E-04 0.0E+00 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW  
 ADULT 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
 TEEN 1.7E-04 1.7E-04 0.0E+00 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 CHILD 2.7E-04 2.7E-04 0.0E+00 2.7E-04 2.7E-04 2.7E-04 2.7E-04 0.0E+00  
 INFNT 4.2E-04 4.2E-04 0.0E+00 4.2E-04 4.2E-04 4.2E-04 4.2E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
 TEEN 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
 CHILD 9.5E-04 9.5E-04 0.0E+00 9.5E-04 9.5E-04 9.5E-04 9.5E-04 0.0E+00  
 INFNT 5.5E-04 5.5E-04 0.0E+00 5.5E-04 5.5E-04 5.5E-04 5.5E-04 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 3.9E-03 3.9E-03 0.0E+00 3.9E-03 3.9E-03 3.9E-03 3.9E-03 0.0E+00  
 TEEN 4.4E-03 4.4E-03 0.0E+00 4.4E-03 4.4E-03 4.4E-03 4.4E-03 0.0E+00  
 CHILD 6.1E-03 6.1E-03 0.0E+00 6.1E-03 6.1E-03 6.1E-03 6.1E-03 0.0E+00  
 INFNT 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00

## TOTALS

ADULT 3.9E-03 3.9E-03 0.0E+00 3.9E-03 3.9E-03 3.9E-03 3.9E-03 0.0E+00  
 TEEN 4.4E-03 4.4E-03 0.0E+00 4.4E-03 4.4E-03 4.4E-03 4.4E-03 0.0E+00  
 CHILD 6.1E-03 6.1E-03 0.0E+00 6.1E-03 6.1E-03 6.1E-03 6.1E-03 0.0E+00  
 INFNT 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00





## THIS IS LAST ACCUMULATION

## INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 6.8E-05 6.8E-05 0.0E+00 6.8E-05 6.8E-05 6.8E-05 6.8E-05 0.0E+00  
 TEEN 7.8E-05 7.8E-05 0.0E+00 7.8E-05 7.8E-05 7.8E-05 7.8E-05 0.0E+00  
 CHILD 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 9.8E-06 9.8E-06 0.0E+00 9.8E-06 9.8E-06 9.8E-06 9.8E-06 0.0E+00  
 TEEN 5.9E-06 5.9E-06 0.0E+00 5.9E-06 5.9E-06 5.9E-06 5.9E-06 0.0E+00  
 CHILD 7.1E-06 7.1E-06 0.0E+00 7.1E-06 7.1E-06 7.1E-06 7.1E-06 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

DV PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 2.3E-05 2.3E-05 0.0E+00 2.3E-05 2.3E-05 2.3E-05 2.3E-05 0.0E+00  
 TEEN 3.0E-05 3.0E-05 0.0E+00 3.0E-05 3.0E-05 3.0E-05 3.0E-05 0.0E+00  
 CHILD 4.8E-05 4.8E-05 0.0E+00 4.8E-05 4.8E-05 4.8E-05 4.8E-05 0.0E+00  
 INFNT 7.2E-05 7.2E-05 0.0E+00 7.2E-05 7.2E-05 7.2E-05 7.2E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 4.7E-05 4.7E-05 0.0E+00 4.7E-05 4.7E-05 4.7E-05 4.7E-05 0.0E+00  
 TEEN 6.1E-05 6.1E-05 0.0E+00 6.1E-05 6.1E-05 6.1E-05 6.1E-05 0.0E+00  
 CHILD 9.7E-05 9.7E-05 0.0E+00 9.7E-05 9.7E-05 9.7E-05 9.7E-05 0.0E+00  
 INFNT 1.5E-04 1.5E-04 0.0E+00 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 3.8E-05 3.8E-05 0.0E+00 3.8E-05 3.8E-05 3.8E-05 3.8E-05 0.0E+00  
 TEEN 3.8E-05 3.8E-05 0.0E+00 3.8E-05 3.8E-05 3.8E-05 3.8E-05 0.0E+00  
 CHILD 3.4E-05 3.4E-05 0.0E+00 3.4E-05 3.4E-05 3.4E-05 3.4E-05 0.0E+00  
 INFNT 1.9E-05 1.9E-05 0.0E+00 1.9E-05 1.9E-05 1.9E-05 1.9E-05 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 TEEN 2.1E-04 2.1E-04 0.0E+00 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00  
 CHILD 3.1E-04 3.1E-04 0.0E+00 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00  
 INFNT 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00

## TOTALS

ADULT 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 TEEN 2.1E-04 2.1E-04 0.0E+00 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00  
 CHILD 3.1E-04 3.1E-04 0.0E+00 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00  
 INFNT 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00

THIS IS LAST ACCUMULATION



# INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.6E-04 1.6E-04 0.0E+00 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
 TEEN 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
 CHILD 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 2.2E-05 2.2E-05 0.0E+00 2.2E-05 2.2E-05 2.2E-05 2.2E-05 0.0E+00  
 TEEN 1.3E-05 1.3E-05 0.0E+00 1.3E-05 1.3E-05 1.3E-05 1.3E-05 0.0E+00  
 CHILD 1.6E-05 1.6E-05 0.0E+00 1.6E-05 1.6E-05 1.6E-05 1.6E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 5.3E-05 5.3E-05 0.0E+00 5.3E-05 5.3E-05 5.3E-05 5.3E-05 0.0E+00  
 TEEN 6.9E-05 6.9E-05 0.0E+00 6.9E-05 6.9E-05 6.9E-05 6.9E-05 0.0E+00  
 CHILD 1.1E-04 1.1E-04 0.0E+00 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 INFNT 1.6E-04 1.6E-04 0.0E+00 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.1E-04 1.1E-04 0.0E+00 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 TEEN 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 CHILD 2.2E-04 2.2E-04 0.0E+00 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
 INFNT 3.4E-04 3.4E-04 0.0E+00 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 8.7E-05 8.7E-05 0.0E+00 8.7E-05 8.7E-05 8.7E-05 8.7E-05 0.0E+00  
 TEEN 8.7E-05 8.7E-05 0.0E+00 8.7E-05 8.7E-05 8.7E-05 8.7E-05 0.0E+00  
 CHILD 7.7E-05 7.7E-05 0.0E+00 7.7E-05 7.7E-05 7.7E-05 7.7E-05 0.0E+00  
 INFNT 4.4E-05 4.4E-05 0.0E+00 4.4E-05 4.4E-05 4.4E-05 4.4E-05 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 4.3E-04 4.3E-04 0.0E+00 4.3E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00  
 TEEN 4.9E-04 4.9E-04 0.0E+00 4.9E-04 4.9E-04 4.9E-04 4.9E-04 0.0E+00  
 CHILD 7.0E-04 7.0E-04 0.0E+00 7.0E-04 7.0E-04 7.0E-04 7.0E-04 0.0E+00  
 INFNT 5.5E-04 5.5E-04 0.0E+00 5.5E-04 5.5E-04 5.5E-04 5.5E-04 0.0E+00

TOTALS  
 ADULT 4.3E-04 4.3E-04 0.0E+00 4.3E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00  
 TEEN 4.9E-04 4.9E-04 0.0E+00 4.9E-04 4.9E-04 4.9E-04 4.9E-04 0.0E+00  
 CHILD 7.0E-04 7.0E-04 0.0E+00 7.0E-04 7.0E-04 7.0E-04 7.0E-04 0.0E+00  
 INFNT 5.5E-04 5.5E-04 0.0E+00 5.5E-04 5.5E-04 5.5E-04 5.5E-04 0.0E+00

THIS IS LAST ACCUMULATION  
 INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT



FOR DATES 98 1 1 1 THRU 98 33124  
T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.0E-04 2.0E-04 0.0E+00 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00  
TEEN 2.3E-04 2.3E-04 0.0E+00 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
CHILD 3.6E-04 3.6E-04 0.0E+00 3.6E-04 3.6E-04 3.6E-04 3.6E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.9E-05 2.9E-05 0.0E+00 2.9E-05 2.9E-05 2.9E-05 2.9E-05 0.0E+00  
TEEN 1.7E-05 1.7E-05 0.0E+00 1.7E-05 1.7E-05 1.7E-05 1.7E-05 0.0E+00  
CHILD 2.1E-05 2.1E-05 0.0E+00 2.1E-05 2.1E-05 2.1E-05 2.1E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 6.9E-05 6.9E-05 0.0E+00 6.9E-05 6.9E-05 6.9E-05 6.9E-05 0.0E+00  
TEEN 9.0E-05 9.0E-05 0.0E+00 9.0E-05 9.0E-05 9.0E-05 9.0E-05 0.0E+00  
CHILD 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
INFNT 2.2E-04 2.2E-04 0.0E+00 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
TEEN 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
CHILD 2.9E-04 2.9E-04 0.0E+00 2.9E-04 2.9E-04 2.9E-04 2.9E-04 0.0E+00  
INFNT 4.4E-04 4.4E-04 0.0E+00 4.4E-04 4.4E-04 4.4E-04 4.4E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 1.1E-04 1.1E-04 0.0E+00 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
TEEN 1.1E-04 1.1E-04 0.0E+00 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
CHILD 1.0E-04 1.0E-04 0.0E+00 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
INFNT 5.8E-05 5.8E-05 0.0E+00 5.8E-05 5.8E-05 5.8E-05 5.8E-05 0.0E+00

SUBTOTALS (NO PLUME)  
ADULT 5.6E-04 5.6E-04 0.0E+00 5.6E-04 5.6E-04 5.6E-04 5.6E-04 0.0E+00  
TEEN 6.4E-04 6.4E-04 0.0E+00 6.4E-04 6.4E-04 6.4E-04 6.4E-04 0.0E+00  
CHILD 9.1E-04 9.1E-04 0.0E+00 9.1E-04 9.1E-04 9.1E-04 9.1E-04 0.0E+00  
INFNT 7.1E-04 7.1E-04 0.0E+00 7.1E-04 7.1E-04 7.1E-04 7.1E-04 0.0E+00

TOTALS  
ADULT 5.6E-04 5.6E-04 0.0E+00 5.6E-04 5.6E-04 5.6E-04 5.6E-04 0.0E+00  
TEEN 6.4E-04 6.4E-04 0.0E+00 6.4E-04 6.4E-04 6.4E-04 6.4E-04 0.0E+00  
CHILD 9.1E-04 9.1E-04 0.0E+00 9.1E-04 9.1E-04 9.1E-04 9.1E-04 0.0E+00  
INFNT 7.1E-04 7.1E-04 0.0E+00 7.1E-04 7.1E-04 7.1E-04 7.1E-04 0.0E+00

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 1 1 1 THRU 98 33124



T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 TEEN 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
 CHILD 4.3E-04 4.3E-04 0.0E+00 4.3E-04 4.3E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 3.5E-05 3.5E-05 0.0E+00 3.5E-05 3.5E-05 3.5E-05 3.5E-05 3.5E-05 0.0E+00  
 TEEN 2.1E-05 2.1E-05 0.0E+00 2.1E-05 2.1E-05 2.1E-05 2.1E-05 2.1E-05 0.0E+00  
 CHILD 2.5E-05 2.5E-05 0.0E+00 2.5E-05 2.5E-05 2.5E-05 2.5E-05 2.5E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 8.2E-05 8.2E-05 0.0E+00 8.2E-05 8.2E-05 8.2E-05 8.2E-05 8.2E-05 0.0E+00  
 TEEN 1.1E-04 1.1E-04 0.0E+00 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 CHILD 1.7E-04 1.7E-04 0.0E+00 1.7E-04 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 INFNT 2.6E-04 2.6E-04 0.0E+00 2.6E-04 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 1.7E-04 1.7E-04 0.0E+00 1.7E-04 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 TEEN 2.2E-04 2.2E-04 0.0E+00 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
 CHILD 3.4E-04 3.4E-04 0.0E+00 3.4E-04 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
 INFNT 5.3E-04 5.3E-04 0.0E+00 5.3E-04 5.3E-04 5.3E-04 5.3E-04 5.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 TEEN 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 CHILD 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 INFNT 6.9E-05 6.9E-05 0.0E+00 6.9E-05 6.9E-05 6.9E-05 6.9E-05 6.9E-05 0.0E+00

#### SUBTOTALS (NO PLUME)

ADULT 6.6E-04 6.6E-04 0.0E+00 6.6E-04 6.6E-04 6.6E-04 6.6E-04 6.6E-04 0.0E+00  
 TEEN 7.6E-04 7.6E-04 0.0E+00 7.6E-04 7.6E-04 7.6E-04 7.6E-04 7.6E-04 0.0E+00  
 CHILD 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
 INFNT 8.5E-04 8.5E-04 0.0E+00 8.5E-04 8.5E-04 8.5E-04 8.5E-04 8.5E-04 0.0E+00

#### TOTALS

ADULT 6.6E-04 6.6E-04 0.0E+00 6.6E-04 6.6E-04 6.6E-04 6.6E-04 6.6E-04 0.0E+00  
 TEEN 7.6E-04 7.6E-04 0.0E+00 7.6E-04 7.6E-04 7.6E-04 7.6E-04 7.6E-04 0.0E+00  
 CHILD 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
 INFNT 8.5E-04 8.5E-04 0.0E+00 8.5E-04 8.5E-04 8.5E-04 8.5E-04 8.5E-04 0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN





PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 2.7E-04 2.7E-04 0.0E+00 2.7E-04 2.7E-04 2.7E-04 2.7E-04 0.0E+00  
 TEEN 3.1E-04 3.1E-04 0.0E+00 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00  
 CHILD 4.7E-04 4.7E-04 0.0E+00 4.7E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 3.8E-05 3.8E-05 0.0E+00 3.8E-05 3.8E-05 3.8E-05 3.8E-05 0.0E+00  
 TEEN 2.3E-05 2.3E-05 0.0E+00 2.3E-05 2.3E-05 2.3E-05 2.3E-05 0.0E+00  
 CHILD 2.8E-05 2.8E-05 0.0E+00 2.8E-05 2.8E-05 2.8E-05 2.8E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 9.0E-05 9.0E-05 0.0E+00 9.0E-05 9.0E-05 9.0E-05 9.0E-05 0.0E+00  
 TEEN 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 CHILD 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 INFNT 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
 TEEN 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 CHILD 3.8E-04 3.8E-04 0.0E+00 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
 INFNT 5.8E-04 5.8E-04 0.0E+00 5.8E-04 5.8E-04 5.8E-04 5.8E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.5E-04 1.5E-04 0.0E+00 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 TEEN 1.5E-04 1.5E-04 0.0E+00 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 CHILD 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
 INFNT 7.6E-05 7.6E-05 0.0E+00 7.6E-05 7.6E-05 7.6E-05 7.6E-05 0.0E+00

#### SUBTOTALS (NO PLUME)

ADULT 7.3E-04 7.3E-04 0.0E+00 7.3E-04 7.3E-04 7.3E-04 7.3E-04 0.0E+00  
 TEEN 8.3E-04 8.3E-04 0.0E+00 8.3E-04 8.3E-04 8.3E-04 8.3E-04 0.0E+00  
 CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 INFNT 9.3E-04 9.3E-04 0.0E+00 9.3E-04 9.3E-04 9.3E-04 9.3E-04 0.0E+00

#### TOTALS

ADULT 7.3E-04 7.3E-04 0.0E+00 7.3E-04 7.3E-04 7.3E-04 7.3E-04 0.0E+00  
 TEEN 8.3E-04 8.3E-04 0.0E+00 8.3E-04 8.3E-04 8.3E-04 8.3E-04 0.0E+00  
 CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 INFNT 9.3E-04 9.3E-04 0.0E+00 9.3E-04 9.3E-04 9.3E-04 9.3E-04 0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 1 1 1 THRU 98 33124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN



PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 2.7E-04 2.7E-04 0.0E+00 2.7E-04 2.7E-04 2.7E-04 2.7E-04 0.0E+00  
 TEEN 3.1E-04 3.1E-04 0.0E+00 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00  
 CHILD 4.8E-04 4.8E-04 0.0E+00 4.8E-04 4.8E-04 4.8E-04 4.8E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 3.9E-05 3.9E-05 0.0E+00 3.9E-05 3.9E-05 3.9E-05 3.9E-05 0.0E+00  
 TEEN 2.3E-05 2.3E-05 0.0E+00 2.3E-05 2.3E-05 2.3E-05 2.3E-05 0.0E+00  
 CHILD 2.8E-05 2.8E-05 0.0E+00 2.8E-05 2.8E-05 2.8E-05 2.8E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 9.2E-05 9.2E-05 0.0E+00 9.2E-05 9.2E-05 9.2E-05 9.2E-05 0.0E+00  
 TEEN 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 CHILD 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 INFNT 2.9E-04 2.9E-04 0.0E+00 2.9E-04 2.9E-04 2.9E-04 2.9E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 TEEN 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 CHILD 3.8E-04 3.8E-04 0.0E+00 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
 INFNT 5.9E-04 5.9E-04 0.0E+00 5.9E-04 5.9E-04 5.9E-04 5.9E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 1.5E-04 1.5E-04 0.0E+00 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 TEEN 1.5E-04 1.5E-04 0.0E+00 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 CHILD 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
 INFNT 7.7E-05 7.7E-05 0.0E+00 7.7E-05 7.7E-05 7.7E-05 7.7E-05 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 7.4E-04 7.4E-04 0.0E+00 7.4E-04 7.4E-04 7.4E-04 7.4E-04 0.0E+00  
 TEEN 8.5E-04 8.5E-04 0.0E+00 8.5E-04 8.5E-04 8.5E-04 8.5E-04 0.0E+00  
 CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 INFNT 9.5E-04 9.5E-04 0.0E+00 9.5E-04 9.5E-04 9.5E-04 9.5E-04 0.0E+00

TOTALS  
 ADULT 7.4E-04 7.4E-04 0.0E+00 7.4E-04 7.4E-04 7.4E-04 7.4E-04 0.0E+00  
 TEEN 8.5E-04 8.5E-04 0.0E+00 8.5E-04 8.5E-04 8.5E-04 8.5E-04 0.0E+00  
 CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 INFNT 9.5E-04 9.5E-04 0.0E+00 9.5E-04 9.5E-04 9.5E-04 9.5E-04 0.0E+00



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 1 1 1 0 TO 98 33124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

D



## 1998 Annual Radioactive Effluent Release Report

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### Appendix 3: Summary of Maximum Individual Doses, Second Quarter 1998

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (Toward)	Percent of Applicable limit	Limit (mrem) QTR
Liquid	Total Body	7.71 E-03	Adult	Receptor 1	5.1 E-01	1.5 E+00
Liquid	Liver	9.67 E-03	Child	Receptor 1	1.9 E-01	5.0 E+00
Noble Gas	Air dose (Gamma-mrad)	2.68 E-05		617 NNE	5.4 E-04	5.0 E+00
Noble Gas	Air Dose (Beta-mrad)	3.04 E-03		617 NNE	3.0 E-02	1.0 E+01
Iodines and Particulates	Liver	2.72 E-02	Child	659 N	3.6 E-01	7.5 E+00



FOR RECEPTOR NUMBER 1

LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 4 1 1 END DATE 98 63024

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
WATER								
ADULT	2.6E-05	3.0E-03	3.0E-03	2.9E-03	2.9E-03	2.9E-03	3.5E-03	0.0E+00
TEEN	2.5E-05	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.4E-03	0.0E+00
CHILD	7.3E-05	4.0E-03	4.0E-03	3.9E-03	4.0E-03	4.0E-03	4.2E-03	0.0E+00
INFANT	7.7E-05	4.0E-03	3.9E-03	3.9E-03	3.9E-03	3.9E-03	4.0E-03	0.0E+00
SHORE								
ADULT	7.1E-05	7.1E-05	7.1E-05	7.1E-05	7.1E-05	7.1E-05	7.1E-05	8.3E-05
TEEN	3.9E-04	3.9E-04	3.9E-04	3.9E-04	3.9E-04	3.9E-04	3.9E-04	4.6E-04
CHILD	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	9.7E-05
INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
FW SPT FISH								
ADULT	3.4E-03	6.3E-03	4.7E-03	2.0E-04	2.2E-03	8.4E-04	3.5E-03	0.0E+00
TEEN	3.5E-03	6.4E-03	2.7E-03	1.5E-04	2.2E-03	9.2E-04	2.4E-03	0.0E+00
CHILD	4.4E-03	5.5E-03	1.2E-03	1.2E-04	1.8E-03	7.3E-04	9.3E-04	0.0E+00
INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 4 1 1 END DATE 98 63024

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
TOTAL								
ADULT	3.5E-03	9.3E-03	7.7E-03	3.2E-03	5.2E-03	3.8E-03	7.1E-03	8.3E-05
TEEN	4.0E-03	8.9E-03	5.2E-03	2.6E-03	4.6E-03	3.4E-03	5.3E-03	4.6E-04
CHILD	4.5E-03	9.7E-03	5.3E-03	4.2E-03	5.9E-03	4.8E-03	5.3E-03	9.7E-05
INFANT	7.7E-05	4.0E-03	3.9E-03	3.9E-03	3.9E-03	3.9E-03	4.0E-03	0.0E+00



GA

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

1.8515E-06	1.8044E-07	9.7856E-08	6.3529E-08	4.6508E-08
2.4912E-08	1.0592E-08	5.3525E-09	3.4393E-09	2.2536E-09

\*\*DIRECTION FROM ESE

2.7288E-08	2.6594E-09	1.4422E-09	9.3631E-10	6.8545E-10
3.6716E-10	1.5611E-10	7.8887E-11	5.0689E-11	3.3214E-11

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

8.6748E-07	8.4542E-08	4.5848E-08	2.9765E-08	2.1790E-08
1.1672E-08	4.9626E-09	2.5078E-09	1.6114E-09	1.0559E-09

\*\*DIRECTION FROM SSE

4.3387E-05	4.2284E-06	2.2931E-06	1.4887E-06	1.0898E-06
5.8377E-07	2.4821E-07	1.2543E-07	8.0595E-08	5.2810E-08

\*\*DIRECTION FROM S

1.3410E-07	6.5291E-09	3.9239E-09	2.8018E-09	2.1788E-09
1.3072E-09	6.5358E-10	3.9215E-10	2.8011E-10	1.9595E-10

\*\*DIRECTION FROM SSW

2.8591E-05	2.7864E-06	1.5111E-06	9.8101E-07	7.1817E-07
3.8469E-07	1.6356E-07	8.2653E-08	5.3109E-08	3.4800E-08

\*\*DIRECTION FROM SW

1.1968E-06	1.3848E-07	6.0865E-08	3.4475E-08	2.3235E-08
1.0627E-08	3.5996E-09	1.6391E-09	9.8372E-10	5.5852E-10

\*\*DIRECTION FROM WSW

2.0085E-07	9.7785E-09	5.8768E-09	4.1962E-09	3.2631E-09
1.9578E-09	9.7886E-10	5.8732E-10	4.1951E-10	2.9348E-10

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

1.8743E-07	9.1254E-09	5.4843E-09	3.9160E-09	3.0452E-09
1.8270E-09	9.1349E-10	5.4809E-10	3.9149E-10	2.7388E-10

\*\*DIRECTION FROM NNW

8.9600E-08	4.3623E-09	2.6217E-09	1.8720E-09	1.4557E-09
8.7339E-10	4.3668E-10	2.6201E-10	1.8715E-10	1.3092E-10

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0  
12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





## DOSE TYPE

ENTER: [GA]        GAMMA

[BE]        BETA

[RETURN] GO BACK TO PREVIOUS OPTION

BE

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0

DOSE ACCUMULATION FOR BETA            MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

2.0995E-04	2.0461E-05	1.1096E-05	7.2038E-06	5.2737E-06
2.8248E-06	1.2011E-06	6.0694E-07	3.8999E-07	2.5555E-07

\*\*DIRECTION FROM ESE

3.0943E-06	3.0156E-07	1.6354E-07	1.0617E-07	7.7726E-08
4.1634E-08	1.7702E-08	8.9453E-09	5.7479E-09	3.7663E-09

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0

DOSE ACCUMULATION FOR BETA            MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

9.8367E-05	9.5866E-06	5.1990E-06	3.3752E-06	2.4709E-06
1.3235E-06	5.6273E-07	2.8437E-07	1.8272E-07	1.1973E-07

\*\*DIRECTION FROM SSE

4.9199E-03	4.7948E-04	2.6003E-04	1.6881E-04	1.2358E-04
6.6197E-05	2.8145E-05	1.4223E-05	9.1390E-06	5.9884E-06

\*\*DIRECTION FROM S

1.5207E-05	7.4036E-07	4.4495E-07	3.1771E-07	2.4706E-07
1.4823E-07	7.4113E-08	4.4468E-08	3.1763E-08	2.2220E-08

\*\*DIRECTION FROM SSW

3.2420E-03	3.1596E-04	1.7135E-04	1.1124E-04	8.1436E-05
4.3621E-05	1.8547E-05	9.3724E-06	6.0223E-06	3.9461E-06

\*\*DIRECTION FROM SW

1.3571E-04	1.5702E-05	6.9017E-06	3.9092E-06	2.6347E-06
1.2050E-06	4.0817E-07	1.8587E-07	1.1155E-07	6.3333E-08

\*\*DIRECTION FROM WSW

2.2775E-05	1.1088E-06	6.6640E-07	4.7583E-07	3.7002E-07
2.2200E-07	1.1100E-07	6.6599E-08	4.7570E-08	3.3279E-08

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

2.1254E-05	1.0348E-06	6.2189E-07	4.4405E-07	3.4530E-07
2.0718E-07	1.0358E-07	6.2151E-08	4.4393E-08	3.1056E-08

\*\*DIRECTION FROM NNW

1.0160E-05	4.9466E-07	2.9729E-07	2.1227E-07	1.6507E-07
9.9038E-08	4.9517E-08	2.9710E-08	2.1222E-08	1.4846E-08

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0  
12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 4 1 1 0 TO 98 63024 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



THIS IS LAST ACCUMULATION  
GAS DOSE ACCU, START DATE 98 4 1 1 END DATE 98 63024

NUMBER OF GOOD HOURS OF GASEOUS DOSE ACCUMULATION 2177  
NUMBER OF BAD HOURS - NO GAS DOSE ACCUMULATION... 7  
DOSE RATIO (NGOOD+NBAD)/NGOOD IS..... 1.0032  
DOSES ARE..... NOT RATIOED

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
ADULT 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 1.9E-07 8.4E-06  
TEEN 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 1.9E-07 8.4E-06  
CHILD 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 1.9E-07 8.4E-06  
INFNT 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 7.0E-08 1.9E-07 8.4E-06

GROUND PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
ADULT 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 3.3E-05  
TEEN 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 3.3E-05  
CHILD 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 3.3E-05  
INFNT 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 3.3E-05

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
ADULT 5.0E-04 5.0E-04 2.6E-07 5.0E-04 5.0E-04 5.0E-04 5.0E-04 0.0E+00  
TEEN 5.7E-04 5.7E-04 4.1E-07 5.7E-04 5.7E-04 5.7E-04 5.7E-04 0.0E+00  
CHILD 8.8E-04 8.8E-04 9.7E-07 8.9E-04 8.8E-04 8.8E-04 8.8E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
ADULT 7.2E-05 7.2E-05 2.6E-08 7.2E-05 7.2E-05 7.2E-05 7.2E-05 0.0E+00  
TEEN 4.3E-05 4.3E-05 2.1E-08 4.3E-05 4.3E-05 4.3E-05 4.3E-05 0.0E+00  
CHILD 5.2E-05 5.2E-05 3.9E-08 5.2E-05 5.2E-05 5.2E-05 5.2E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
ADULT 4.1E-04 4.1E-04 7.5E-07 4.1E-04 4.1E-04 4.1E-04 4.1E-04 0.0E+00  
TEEN 5.3E-04 5.3E-04 1.4E-06 5.3E-04 5.3E-04 5.3E-04 5.3E-04 0.0E+00  
CHILD 8.4E-04 8.4E-04 3.3E-06 8.4E-04 8.4E-04 8.4E-04 8.4E-04 0.0E+00  
INFNT 1.3E-03 1.3E-03 5.2E-06 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
ADULT 8.4E-04 8.3E-04 2.3E-06 8.4E-04 8.3E-04 8.3E-04 8.3E-04 0.0E+00  
TEEN 1.1E-03 1.1E-03 4.1E-06 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
CHILD 1.7E-03 1.7E-03 9.8E-06 1.7E-03 1.7E-03 1.7E-03 1.7E-03 0.0E+00  
INFNT 2.6E-03 2.6E-03 1.6E-05 2.6E-03 2.6E-03 2.6E-03 2.6E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
ADULT 1.1E-02 1.1E-02 5.1E-07 1.1E-02 1.1E-02 1.1E-02 1.1E-02 0.0E+00  
TEEN 1.1E-02 1.1E-02 7.1E-07 1.1E-02 1.1E-02 1.1E-02 1.1E-02 0.0E+00  
CHILD 9.4E-03 9.4E-03 9.6E-07 9.4E-03 9.4E-03 9.4E-03 9.4E-03 0.0E+00  
INFNT 5.4E-03 5.4E-03 5.8E-07 5.4E-03 5.4E-03 5.4E-03 5.4E-03 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 1.2E-02 1.2E-02 3.2E-05 1.2E-02 1.2E-02 1.2E-02 1.2E-02 3.3E-05  
TEEN 1.3E-02 1.3E-02 3.5E-05 1.3E-02 1.3E-02 1.3E-02 1.3E-02 3.3E-05





CHILD	1.3E-02	1.3E-02	4.3E-05	1.3E-02	1.3E-02	1.3E-02	1.3E-02	3.3E-05
INFNT	9.3E-03	9.3E-03	5.0E-05	9.4E-03	9.3E-03	9.3E-03	9.3E-03	3.3E-05

# TOTALS

ADULT	1.2E-02	1.2E-02	3.2E-05	1.2E-02	1.2E-02	1.2E-02	1.2E-02	4.1E-05
TEEN	1.3E-02	1.3E-02	3.5E-05	1.3E-02	1.3E-02	1.3E-02	1.3E-02	4.1E-05
CHILD	1.3E-02	1.3E-02	4.3E-05	1.3E-02	1.3E-02	1.3E-02	1.3E-02	4.1E-05
INFNT	9.3E-03	9.3E-03	5.0E-05	9.4E-03	9.3E-03	9.3E-03	9.3E-03	4.1E-05

## THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	4.2E-05	1.9E-03
TEEN	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	4.2E-05	1.9E-03
CHILD	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	4.2E-05	1.9E-03
INFNT	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	1.6E-05	4.2E-05	1.9E-03

GROUND PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.6E-05
TEEN	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.6E-05
CHILD	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.6E-05
INFNT	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.3E-05	1.6E-05

VEGET PATHWAY, DIST GP= 1, 814. METERS WINDS TOWARD NNE

ADULT	8.9E-03	8.9E-03	5.9E-06	8.9E-03	8.9E-03	8.9E-03	8.9E-03	0.0E+00
TEEN	1.0E-02	1.0E-02	9.4E-06	1.0E-02	1.0E-02	1.0E-02	1.0E-02	0.0E+00
CHILD	1.6E-02	1.6E-02	2.2E-05	1.6E-02	1.6E-02	1.6E-02	1.6E-02	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NNE

ADULT	5.0E-05	5.0E-05	1.3E-08	5.0E-05	5.0E-05	5.0E-05	5.0E-05	0.0E+00
TEEN	3.0E-05	3.0E-05	1.1E-08	3.0E-05	3.0E-05	3.0E-05	3.0E-05	0.0E+00
CHILD	3.6E-05	3.6E-05	2.0E-08	3.6E-05	3.6E-05	3.6E-05	3.6E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE

ADULT	2.7E-04	2.7E-04	3.6E-07	2.7E-04	2.7E-04	2.7E-04	2.7E-04	0.0E+00
TEEN	3.5E-04	3.5E-04	6.5E-07	3.5E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00
CHILD	5.5E-04	5.5E-04	1.6E-06	5.5E-04	5.5E-04	5.5E-04	5.5E-04	0.0E+00
INFNT	8.4E-04	8.4E-04	2.5E-06	8.4E-04	8.4E-04	8.4E-04	8.4E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE

ADULT	5.5E-04	5.5E-04	1.1E-06	5.5E-04	5.5E-04	5.5E-04	5.5E-04	0.0E+00
TEEN	7.2E-04	7.1E-04	1.9E-06	7.2E-04	7.2E-04	7.1E-04	7.1E-04	0.0E+00
CHILD	1.1E-03	1.1E-03	4.7E-06	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00
INFNT	1.7E-03	1.7E-03	7.5E-06	1.7E-03	1.7E-03	1.7E-03	1.7E-03	0.0E+00

INHAL PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	6.9E-03	6.9E-03	2.4E-07	6.9E-03	6.9E-03	6.9E-03	6.9E-03	0.0E+00
TEEN	7.0E-03	7.0E-03	3.3E-07	7.0E-03	7.0E-03	7.0E-03	7.0E-03	0.0E+00
CHILD	6.2E-03	6.2E-03	4.5E-07	6.2E-03	6.2E-03	6.2E-03	6.2E-03	0.0E+00
INFNT	3.5E-03	3.5E-03	2.7E-07	3.5E-03	3.5E-03	3.5E-03	3.5E-03	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	1.7E-02	1.7E-02	2.1E-05	1.7E-02	1.7E-02	1.7E-02	1.7E-02	1.6E-05
TEEN	1.8E-02	1.8E-02	2.6E-05	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.6E-05
CHILD	2.4E-02	2.4E-02	4.2E-05	2.4E-02	2.4E-02	2.4E-02	2.4E-02	1.6E-05



INFNT 6.1E-03 6.1E-03 2.4E-05 6.1E-03 6.1E-03 6.1E-03 6.1E-03 1.6E-05

TOTALS

ADULT 1.7E-02 1.7E-02 3.7E-05 1.7E-02 1.7E-02 1.7E-02 1.7E-02 1.9E-03  
TEEN 1.8E-02 1.8E-02 4.1E-05 1.8E-02 1.8E-02 1.8E-02 1.8E-02 1.9E-03  
CHILD 2.4E-02 2.4E-02 5.8E-05 2.4E-02 2.4E-02 2.4E-02 2.4E-02 1.9E-03  
INFNT 6.1E-03 6.1E-03 3.9E-05 6.1E-03 6.1E-03 6.1E-03 6.2E-03 1.9E-03

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 1.0E-06 4.6E-05  
TEEN 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 1.0E-06 4.6E-05  
CHILD 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 1.0E-06 4.6E-05  
INFNT 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 3.8E-07 1.0E-06 4.6E-05

GROUND PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.2E-05  
TEEN 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.2E-05  
CHILD 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.2E-05  
INFNT 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.0E-05 1.2E-05

VEGET PATHWAY, DIST GP= 1, 1052. METERS WINDS TOWARD NE  
ADULT 3.8E-03 3.8E-03 5.3E-06 3.8E-03 3.8E-03 3.8E-03 3.8E-03 0.0E+00  
TEEN 4.3E-03 4.3E-03 8.4E-06 4.4E-03 4.3E-03 4.3E-03 4.3E-03 0.0E+00  
CHILD 6.7E-03 6.7E-03 2.0E-05 6.7E-03 6.7E-03 6.7E-03 6.7E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NE  
ADULT 3.1E-05 3.1E-05 1.8E-08 3.1E-05 3.1E-05 3.1E-05 3.1E-05 0.0E+00  
TEEN 1.9E-05 1.9E-05 1.5E-08 1.9E-05 1.9E-05 1.9E-05 1.9E-05 0.0E+00  
CHILD 2.2E-05 2.2E-05 2.7E-08 2.2E-05 2.2E-05 2.2E-05 2.2E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE  
ADULT 1.8E-04 1.7E-04 4.9E-07 1.8E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
TEEN 2.3E-04 2.3E-04 8.9E-07 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
CHILD 3.6E-04 3.6E-04 2.1E-06 3.6E-04 3.6E-04 3.6E-04 3.6E-04 0.0E+00  
INFNT 5.5E-04 5.5E-04 3.4E-06 5.5E-04 5.5E-04 5.5E-04 5.5E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE  
ADULT 3.6E-04 3.6E-04 1.5E-06 3.6E-04 3.6E-04 3.6E-04 3.6E-04 0.0E+00  
TEEN 4.7E-04 4.6E-04 2.7E-06 4.7E-04 4.7E-04 4.6E-04 4.7E-04 0.0E+00  
CHILD 7.3E-04 7.3E-04 6.4E-06 7.4E-04 7.3E-04 7.3E-04 7.3E-04 0.0E+00  
INFNT 1.1E-03 1.1E-03 1.0E-05 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 2.5E-03 2.5E-03 1.6E-07 2.5E-03 2.5E-03 2.5E-03 2.5E-03 0.0E+00  
TEEN 2.5E-03 2.5E-03 2.2E-07 2.5E-03 2.5E-03 2.5E-03 2.5E-03 0.0E+00  
CHILD 2.2E-03 2.2E-03 3.0E-07 2.2E-03 2.2E-03 2.2E-03 2.2E-03 0.0E+00  
INFNT 1.3E-03 1.3E-03 1.8E-07 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00

TOTALS (NO PLUME)

ADULT 6.9E-03 6.9E-03 1.8E-05 6.9E-03 6.9E-03 6.9E-03 6.9E-03 1.2E-05  
TEEN 7.6E-03 7.6E-03 2.2E-05 7.6E-03 7.6E-03 7.6E-03 7.6E-03 1.2E-05  
CHILD 1.0E-02 1.0E-02 3.9E-05 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.2E-05  
INFNT 2.9E-03 2.9E-03 2.4E-05 3.0E-03 3.0E-03 2.9E-03 2.9E-03 1.2E-05

## TOTALS

	ADULT	TEEN	CHILD	INFNT
6.9E-03	6.9E-03	1.8E-05	6.9E-03	6.9E-03
6.9E-03	6.9E-03	6.9E-03	6.9E-03	6.9E-03
5.8E-05	7.6E-03	7.6E-03	2.3E-05	7.6E-03
7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03
5.8E-05	1.0E-02	1.0E-02	3.9E-05	1.0E-02
1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02
5.8E-05	2.9E-03	2.9E-03	2.4E-05	3.0E-03
2.9E-03	3.0E-03	2.9E-03	2.9E-03	2.9E-03
5.8E-05				

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
3.4E-08	3.4E-08	3.4E-08	3.4E-08	3.4E-08
1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06

GROUND PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
4.5E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06
4.5E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06
4.5E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06
4.5E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06
5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06

VEGET PATHWAY, DIST GP= 1, 1852. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
1.1E-03	1.1E-03	2.5E-06	1.1E-03	1.1E-03
1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03
1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03
1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

CAT PATHWAY, DIST GP= 1, 3862. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
5.8E-05	5.8E-05	7.8E-08	5.8E-05	5.8E-05
5.8E-05	5.8E-05	5.8E-05	5.8E-05	5.8E-05
5.8E-05	5.8E-05	5.8E-05	5.8E-05	5.8E-05
5.8E-05	5.8E-05	5.8E-05	5.8E-05	5.8E-05
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
1.3E-04	1.3E-04	6.0E-07	1.3E-04	1.3E-04
1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04
1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04
1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
2.6E-04	2.6E-04	1.8E-06	2.6E-04	2.6E-04
2.6E-04	2.6E-04	2.6E-04	2.6E-04	2.6E-04
2.6E-04	2.6E-04	2.6E-04	2.6E-04	2.6E-04
2.6E-04	2.6E-04	2.6E-04	2.6E-04	2.6E-04
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
6.9E-04	6.9E-04	3.0E-08	6.9E-04	6.9E-04
6.9E-04	6.9E-04	6.9E-04	6.9E-04	6.9E-04
6.9E-04	6.9E-04	6.9E-04	6.9E-04	6.9E-04
6.9E-04	6.9E-04	6.9E-04	6.9E-04	6.9E-04
0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

## TOTALS (NO PLUME)

	ADULT	TEEN	CHILD	INFNT
2.3E-03	2.3E-03	9.5E-06	2.3E-03	2.3E-03
2.3E-03	2.3E-03	2.3E-03	2.3E-03	2.3E-03
2.3E-03	2.3E-03	2.3E-03	2.3E-03	2.3E-03
2.3E-03	2.3E-03	2.3E-03	2.3E-03	2.3E-03
5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06



## TOTALS

ADULT	2.3E-03	2.3E-03	9.5E-06	2.3E-03	2.3E-03	2.3E-03	2.3E-03	6.7E-06
TEEN	2.5E-03	2.5E-03	1.3E-05	2.6E-03	2.5E-03	2.5E-03	2.5E-03	6.7E-06
CHILD	3.5E-03	3.5E-03	2.5E-05	3.5E-03	3.5E-03	3.5E-03	3.5E-03	6.7E-06
INFNT	1.6E-03	1.6E-03	2.1E-05	1.6E-03	1.6E-03	1.6E-03	1.6E-03	6.7E-06

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	5.2E-06
TEEN	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	5.2E-06
CHILD	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	5.2E-06
INFNT	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	4.4E-06	5.2E-06

VEGET PATHWAY, DIST GP= 1, 1705. METERS WINDS TOWARD E

ADULT	1.3E-03	1.3E-03	2.8E-06	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00
TEEN	1.5E-03	1.5E-03	4.5E-06	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00
CHILD	2.3E-03	2.3E-03	1.1E-05	2.4E-03	2.3E-03	2.3E-03	2.3E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 6810. METERS WINDS TOWARD E

ADULT	2.7E-05	2.7E-05	2.7E-08	2.7E-05	2.7E-05	2.7E-05	2.7E-05	0.0E+00
TEEN	1.6E-05	1.6E-05	2.2E-08	1.6E-05	1.6E-05	1.6E-05	1.6E-05	0.0E+00
CHILD	2.0E-05	2.0E-05	4.1E-08	2.0E-05	2.0E-05	2.0E-05	2.0E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	1.3E-04	1.3E-04	5.8E-07	1.3E-04	1.3E-04	1.3E-04	1.3E-04	0.0E+00
TEEN	1.7E-04	1.7E-04	1.1E-06	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
CHILD	2.6E-04	2.6E-04	2.5E-06	2.7E-04	2.6E-04	2.6E-04	2.6E-04	0.0E+00
INFNT	4.0E-04	4.0E-04	4.0E-06	4.0E-04	4.0E-04	4.0E-04	4.0E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	2.6E-04	2.6E-04	1.7E-06	2.6E-04	2.6E-04	2.6E-04	2.6E-04	0.0E+00
TEEN	3.4E-04	3.4E-04	3.2E-06	3.5E-04	3.4E-04	3.4E-04	3.4E-04	0.0E+00
CHILD	5.4E-04	5.4E-04	7.6E-06	5.4E-04	5.4E-04	5.4E-04	5.4E-04	0.0E+00
INFNT	8.2E-04	8.2E-04	1.2E-05	8.3E-04	8.2E-04	8.2E-04	8.2E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	7.3E-04	7.3E-04	5.0E-08	7.3E-04	7.3E-04	7.3E-04	7.3E-04	0.0E+00
TEEN	7.3E-04	7.3E-04	7.0E-08	7.3E-04	7.3E-04	7.3E-04	7.3E-04	0.0E+00
CHILD	6.5E-04	6.5E-04	9.4E-08	6.5E-04	6.5E-04	6.5E-04	6.5E-04	0.0E+00
INFNT	3.7E-04	3.7E-04	5.7E-08	3.7E-04	3.7E-04	3.7E-04	3.7E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.5E-03	2.5E-03	9.7E-06	2.5E-03	2.5E-03	2.5E-03	2.5E-03	5.2E-06
TEEN	2.8E-03	2.8E-03	1.3E-05	2.8E-03	2.8E-03	2.8E-03	2.8E-03	5.2E-06
CHILD	3.8E-03	3.8E-03	2.5E-05	3.8E-03	3.8E-03	3.8E-03	3.8E-03	5.2E-06
INFNT	1.6E-03	1.6E-03	2.1E-05	1.6E-03	1.6E-03	1.6E-03	1.6E-03	5.2E-06

TOTALS



	ADULT	TEEN	CHILD	INFNT
2.5E-03	2.5E-03	2.5E-03	2.5E-03	2.5E-03
2.5E-03	2.5E-03	2.5E-03	2.5E-03	2.5E-03
9.7E-06	2.5E-03	2.5E-03	2.5E-03	2.5E-03
2.5E-03	2.5E-03	2.5E-03	2.5E-03	2.5E-03
2.5E-03	2.5E-03	2.5E-03	2.5E-03	2.5E-03
2.5E-03	2.5E-03	2.5E-03	2.5E-03	2.5E-03
5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06

# THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 4 1 1 THRU 98 63024

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	6.1E-06
TEEN	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	6.1E-06
CHILD	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	6.1E-06
INFNT	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	5.2E-06	6.1E-06

VEGET PATHWAY, DIST GP= 1, 1628. METERS WINDS TOWARD ESE

ADULT	1.5E-03	1.5E-03	3.4E-06	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00
TEEN	1.7E-03	1.7E-03	5.3E-06	1.7E-03	1.7E-03	1.7E-03	1.7E-03	0.0E+00
CHILD	2.7E-03	2.7E-03	1.3E-05	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

RAT PATHWAY, DIST GP= 1, 2434. METERS WINDS TOWARD ESE

ADULT	1.2E-04	1.2E-04	1.7E-07	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
TEEN	6.9E-05	6.9E-05	1.4E-07	6.9E-05	6.9E-05	6.9E-05	6.9E-05	0.0E+00
CHILD	8.3E-05	8.3E-05	2.6E-07	8.3E-05	8.3E-05	8.3E-05	8.3E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

ADULT	1.4E-04	1.4E-04	6.4E-07	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00
TEEN	1.8E-04	1.8E-04	1.2E-06	1.8E-04	1.8E-04	1.8E-04	1.8E-04	0.0E+00
CHILD	2.8E-04	2.8E-04	2.8E-06	2.8E-04	2.8E-04	2.8E-04	2.8E-04	0.0E+00
INFNT	4.3E-04	4.3E-04	4.4E-06	4.3E-04	4.3E-04	4.3E-04	4.3E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

ADULT	2.8E-04	2.8E-04	1.9E-06	2.8E-04	2.8E-04	2.8E-04	2.8E-04	0.0E+00
TEEN	3.7E-04	3.7E-04	3.5E-06	3.7E-04	3.7E-04	3.6E-04	3.7E-04	0.0E+00
CHILD	5.7E-04	5.7E-04	8.4E-06	5.8E-04	5.8E-04	5.7E-04	5.7E-04	0.0E+00
INFNT	8.8E-04	8.8E-04	1.3E-05	8.9E-04	8.8E-04	8.8E-04	8.8E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	8.3E-04	8.3E-04	3.8E-08	8.3E-04	8.3E-04	8.3E-04	8.3E-04	0.0E+00
TEEN	8.3E-04	8.3E-04	5.2E-08	8.3E-04	8.3E-04	8.3E-04	8.3E-04	0.0E+00
CHILD	7.4E-04	7.4E-04	7.1E-08	7.4E-04	7.4E-04	7.4E-04	7.4E-04	0.0E+00
INFNT	4.2E-04	4.2E-04	4.3E-08	4.2E-04	4.2E-04	4.2E-04	4.2E-04	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	2.9E-03	2.9E-03	1.1E-05	2.9E-03	2.9E-03	2.9E-03	2.9E-03	6.1E-06
TEEN	3.2E-03	3.2E-03	1.5E-05	3.2E-03	3.2E-03	3.2E-03	3.2E-03	6.1E-06
CHILD	4.4E-03	4.4E-03	2.9E-05	4.4E-03	4.4E-03	4.4E-03	4.4E-03	6.1E-06
INFNT	1.7E-03	1.7E-03	2.3E-05	1.8E-03	1.7E-03	1.7E-03	1.7E-03	6.1E-06

## TOTALS

ADULT	2.9E-03	2.9E-03	1.1E-05	2.9E-03	2.9E-03	2.9E-03	2.9E-03	6.1E-06
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	TEEN	CHILD	INFNT
3.2E-03	3.2E-03	4.4E-03	1.7E-03
3.2E-03	4.4E-03	1.7E-03	2.3E-05
1.5E-05	2.9E-05	2.3E-05	1.8E-03
3.2E-03	4.4E-03	1.7E-03	1.7E-03
3.2E-03	4.4E-03	1.7E-03	1.7E-03
3.2E-03	4.4E-03	1.7E-03	1.7E-03
3.2E-03	4.4E-03	1.7E-03	1.7E-03
6.1E-06	6.1E-06	6.1E-06	6.1E-06

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 4 1 1 THRU 98 63024  
T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE  
ADULT 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 8.0E-08 3.6E-06  
TEEN 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 8.0E-08 3.6E-06  
CHILD 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 8.0E-08 3.6E-06  
INFNT 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 3.0E-08 8.0E-08 3.6E-06

GROUND PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE  
ADULT 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 7.7E-06  
TEEN 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 7.7E-06  
CHILD 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 7.7E-06  
INFNT 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 6.6E-06 7.7E-06

VEGET PATHWAY, DIST GP= 1, 914. METERS WINDS TOWARD SE  
ADULT 3.2E-03 3.2E-03 5.9E-06 3.2E-03 3.2E-03 3.2E-03 3.2E-03 0.0E+00  
TEEN 3.7E-03 3.7E-03 9.4E-06 3.7E-03 3.7E-03 3.7E-03 3.7E-03 0.0E+00  
CHILD 5.7E-03 5.7E-03 2.2E-05 5.7E-03 5.7E-03 5.7E-03 5.7E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 4354. METERS WINDS TOWARD SE  
ADULT 4.5E-05 4.5E-05 4.5E-08 4.5E-05 4.5E-05 4.5E-05 4.5E-05 0.0E+00  
TEEN 2.7E-05 2.7E-05 3.8E-08 2.7E-05 2.7E-05 2.7E-05 2.7E-05 0.0E+00  
CHILD 3.2E-05 3.2E-05 6.9E-08 3.2E-05 3.2E-05 3.2E-05 3.2E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SE  
ADULT 1.1E-04 1.1E-04 4.3E-07 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
TEEN 1.5E-04 1.5E-04 7.8E-07 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
CHILD 2.3E-04 2.3E-04 1.9E-06 2.4E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
INFNT 3.6E-04 3.6E-04 3.0E-06 3.6E-04 3.6E-04 3.6E-04 3.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SE  
ADULT 2.3E-04 2.3E-04 1.3E-06 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
TEEN 3.0E-04 3.0E-04 2.4E-06 3.1E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
CHILD 4.8E-04 4.8E-04 5.7E-06 4.8E-04 4.8E-04 4.8E-04 4.8E-04 0.0E+00  
INFNT 7.3E-04 7.3E-04 9.0E-06 7.4E-04 7.3E-04 7.3E-04 7.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE  
ADULT 1.3E-03 1.3E-03 3.8E-08 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00  
TEEN 1.3E-03 1.3E-03 5.3E-08 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00  
CHILD 1.1E-03 1.1E-03 7.2E-08 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
INFNT 6.4E-04 6.4E-04 4.4E-08 6.4E-04 6.4E-04 6.4E-04 6.4E-04 0.0E+00

SUBTOTALS (NO PLUME)  
ADULT 4.9E-03 4.9E-03 1.4E-05 4.9E-03 4.9E-03 4.9E-03 4.9E-03 7.7E-06  
TEEN 5.5E-03 5.4E-03 1.9E-05 5.5E-03 5.5E-03 5.4E-03 5.5E-03 7.7E-06  
CHILD 7.6E-03 7.6E-03 3.6E-05 7.6E-03 7.6E-03 7.6E-03 7.6E-03 7.7E-06  
INFNT 1.7E-03 1.7E-03 1.9E-05 1.7E-03 1.7E-03 1.7E-03 1.7E-03 7.7E-06

TOTALS  
ADULT 4.9E-03 4.9E-03 1.4E-05 4.9E-03 4.9E-03 4.9E-03 4.9E-03 1.1E-05  
TEEN 5.5E-03 5.4E-03 1.9E-05 5.5E-03 5.5E-03 5.4E-03 5.5E-03 1.1E-05

CHILD	7.6E-03	7.6E-03	3.6E-05	7.6E-03	7.6E-03	7.6E-03	7.6E-03	1.1E-05
INFNT	1.7E-03	1.7E-03	1.9E-05	1.7E-03	1.7E-03	1.7E-03	1.7E-03	1.1E-05

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 4 1 1 THRU 98 63024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1507. METERS WINDS TOWARD SSE

ADULT	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	2.1E-08	9.4E-07
TEEN	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	2.1E-08	9.4E-07
CHILD	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	2.1E-08	9.4E-07
INFNT	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	7.8E-09	2.1E-08	9.4E-07

GROUND PATHWAY, DIST GP= 1, 1507. METERS WINDS TOWARD SSE

ADULT	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.4E-05
TEEN	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.4E-05
CHILD	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.4E-05
INFNT	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.4E-05

VEGET PATHWAY, DIST GP= 1, 1093. METERS WINDS TOWARD SSE

ADULT	2.6E-03	2.6E-03	1.3E-05	2.6E-03	2.6E-03	2.6E-03	2.6E-03	0.0E+00
TEEN	3.0E-03	3.0E-03	2.0E-05	3.0E-03	3.0E-03	3.0E-03	3.0E-03	0.0E+00
CHILD	4.6E-03	4.6E-03	4.7E-05	4.7E-03	4.6E-03	4.6E-03	4.6E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 1093. METERS WINDS TOWARD SSE

ADULT	3.8E-04	3.7E-04	1.3E-06	3.8E-04	3.8E-04	3.7E-04	3.8E-04	0.0E+00
TEEN	2.2E-04	2.2E-04	1.0E-06	2.2E-04	2.2E-04	2.2E-04	2.2E-04	0.0E+00
CHILD	2.7E-04	2.7E-04	1.9E-06	2.7E-04	2.7E-04	2.7E-04	2.7E-04	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSE

ADULT	1.2E-04	1.2E-04	1.2E-06	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
TEEN	1.5E-04	1.5E-04	2.3E-06	1.6E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
CHILD	2.4E-04	2.4E-04	5.4E-06	2.5E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
INFNT	3.7E-04	3.7E-04	8.6E-06	3.8E-04	3.7E-04	3.7E-04	3.7E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSE

ADULT	2.4E-04	2.4E-04	3.7E-06	2.5E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
TEEN	3.2E-04	3.1E-04	6.7E-06	3.2E-04	3.2E-04	3.1E-04	3.2E-04	0.0E+00
CHILD	5.0E-04	4.9E-04	1.6E-05	5.1E-04	5.0E-04	4.9E-04	5.0E-04	0.0E+00
INFNT	7.6E-04	7.5E-04	2.6E-05	7.9E-04	7.6E-04	7.5E-04	7.6E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1507. METERS WINDS TOWARD SSE

ADULT	8.7E-04	8.7E-04	4.3E-08	8.7E-04	8.7E-04	8.7E-04	8.7E-04	0.0E+00
TEEN	8.7E-04	8.7E-04	6.0E-08	8.7E-04	8.7E-04	8.7E-04	8.7E-04	0.0E+00
CHILD	7.7E-04	7.7E-04	8.1E-08	7.7E-04	7.7E-04	7.7E-04	7.7E-04	0.0E+00
INFNT	4.4E-04	4.4E-04	4.9E-08	4.4E-04	4.4E-04	4.4E-04	4.4E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	4.2E-03	4.2E-03	3.1E-05	4.2E-03	4.2E-03	4.2E-03	4.2E-03	1.4E-05
TEEN	4.6E-03	4.6E-03	4.2E-05	4.6E-03	4.6E-03	4.6E-03	4.6E-03	1.4E-05
CHILD	6.4E-03	6.4E-03	8.3E-05	6.5E-03	6.4E-03	6.4E-03	6.4E-03	1.4E-05
INFNT	1.6E-03	1.6E-03	4.6E-05	1.6E-03	1.6E-03	1.6E-03	1.6E-03	1.4E-05

TOTALS

ADULT	4.2E-03	4.2E-03	3.1E-05	4.2E-03	4.2E-03	4.2E-03	4.2E-03	1.5E-05
TEEN	4.6E-03	4.6E-03	4.2E-05	4.6E-03	4.6E-03	4.6E-03	4.6E-03	1.5E-05
CHILD	6.4E-03	6.4E-03	8.3E-05	6.5E-03	6.4E-03	6.4E-03	6.4E-03	1.5E-05

INFNT 1.6E-03 1.6E-03 4.6E-05 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.5E-05

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 2.2E-05  
TEEN 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 2.2E-05  
CHILD 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 2.2E-05  
INFNT 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 1.9E-05 2.2E-05

VEGET PATHWAY, DIST GP= 1, 863. METERS WINDS TOWARD S  
ADULT 3.5E-03 3.5E-03 1.6E-05 3.5E-03 3.5E-03 3.5E-03 3.5E-03 0.0E+00  
TEEN 4.0E-03 4.0E-03 2.5E-05 4.0E-03 4.0E-03 4.0E-03 4.0E-03 0.0E+00  
CHILD 6.2E-03 6.2E-03 6.0E-05 6.2E-03 6.2E-03 6.2E-03 6.2E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 6115. METERS WINDS TOWARD S  
ADULT 2.6E-05 2.6E-05 5.8E-08 2.6E-05 2.6E-05 2.6E-05 2.6E-05 0.0E+00  
TEEN 1.6E-05 1.6E-05 4.8E-08 1.6E-05 1.6E-05 1.6E-05 1.6E-05 0.0E+00  
CHILD 1.9E-05 1.9E-05 8.9E-08 1.9E-05 1.9E-05 1.9E-05 1.9E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S  
ADULT 1.1E-04 1.1E-04 1.1E-06 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
TEEN 1.5E-04 1.5E-04 1.9E-06 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
CHILD 2.3E-04 2.3E-04 4.6E-06 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
INFNT 3.5E-04 3.5E-04 7.3E-06 3.6E-04 3.5E-04 3.5E-04 3.5E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S  
ADULT 2.3E-04 2.3E-04 3.2E-06 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
TEEN 3.0E-04 3.0E-04 5.7E-06 3.1E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
CHILD 4.7E-04 4.7E-04 1.4E-05 4.8E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
INFNT 7.2E-04 7.2E-04 2.2E-05 7.4E-04 7.2E-04 7.2E-04 7.2E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 1.5E-03 1.5E-03 9.9E-08 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00  
TEEN 1.5E-03 1.5E-03 1.4E-07 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00  
CHILD 1.3E-03 1.3E-03 1.9E-07 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00  
INFNT 7.6E-04 7.6E-04 1.1E-07 7.6E-04 7.6E-04 7.6E-04 7.6E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 5.4E-03 5.3E-03 3.9E-05 5.4E-03 5.4E-03 5.3E-03 5.3E-03 2.2E-05  
TEEN 6.0E-03 6.0E-03 5.2E-05 6.0E-03 6.0E-03 6.0E-03 6.0E-03 2.2E-05  
CHILD 8.2E-03 8.2E-03 9.7E-05 8.3E-03 8.2E-03 8.2E-03 8.2E-03 2.2E-05  
INFNT 1.8E-03 1.8E-03 4.8E-05 1.9E-03 1.8E-03 1.8E-03 1.8E-03 2.2E-05

TOTALS

ADULT 5.4E-03 5.3E-03 3.9E-05 5.4E-03 5.4E-03 5.3E-03 5.3E-03 2.2E-05  
TEEN 6.0E-03 6.0E-03 5.2E-05 6.0E-03 6.0E-03 6.0E-03 6.0E-03 2.2E-05  
CHILD 8.2E-03 8.2E-03 9.7E-05 8.3E-03 8.2E-03 8.2E-03 8.2E-03 2.2E-05  
INFNT 1.8E-03 1.8E-03 4.8E-05 1.9E-03 1.8E-03 1.8E-03 1.8E-03 2.2E-05



## THIS IS LAST ACCUMULATION

## INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.4E-05  
 TEEN 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.4E-05  
 CHILD 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.4E-05  
 INFNT 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.2E-05 1.4E-05

VEGET PATHWAY, DIST GP= 1, 770. METERS WINDS TOWARD SSW  
 ADULT 3.6E-03 3.6E-03 1.0E-05 3.6E-03 3.6E-03 3.6E-03 3.6E-03 0.0E+00  
 TEEN 4.1E-03 4.1E-03 1.6E-05 4.1E-03 4.1E-03 4.1E-03 4.1E-03 0.0E+00  
 CHILD 6.3E-03 6.3E-03 3.9E-05 6.3E-03 6.3E-03 6.3E-03 6.3E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SSW  
 ADULT 1.6E-05 1.6E-05 1.9E-08 1.6E-05 1.6E-05 1.6E-05 1.6E-05 0.0E+00  
 TEEN 9.7E-06 9.7E-06 1.6E-08 9.7E-06 9.7E-06 9.7E-06 9.7E-06 0.0E+00  
 CHILD 1.2E-05 1.2E-05 2.9E-08 1.2E-05 1.2E-05 1.2E-05 1.2E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW  
 ADULT 9.9E-05 9.9E-05 5.6E-07 1.0E-04 9.9E-05 9.9E-05 9.9E-05 0.0E+00  
 TEEN 1.3E-04 1.3E-04 1.0E-06 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
 CHILD 2.0E-04 2.0E-04 2.5E-06 2.1E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00  
 INFNT 3.1E-04 3.1E-04 3.9E-06 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW  
 ADULT 2.0E-04 2.0E-04 1.7E-06 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00  
 TEEN 2.6E-04 2.6E-04 3.1E-06 2.7E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00  
 CHILD 4.1E-04 4.1E-04 7.4E-06 4.2E-04 4.2E-04 4.1E-04 4.1E-04 0.0E+00  
 INFNT 6.3E-04 6.3E-04 1.2E-05 6.5E-04 6.4E-04 6.3E-04 6.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 1.4E-03 1.4E-03 9.8E-08 1.4E-03 1.4E-03 1.4E-03 1.4E-03 0.0E+00  
 TEEN 1.5E-03 1.5E-03 1.4E-07 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00  
 CHILD 1.3E-03 1.3E-03 1.8E-07 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00  
 INFNT 7.4E-04 7.4E-04 1.1E-07 7.4E-04 7.4E-04 7.4E-04 7.4E-04 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 5.3E-03 5.3E-03 2.4E-05 5.4E-03 5.3E-03 5.3E-03 5.3E-03 1.4E-05  
 TEEN 6.0E-03 5.9E-03 3.2E-05 6.0E-03 6.0E-03 5.9E-03 6.0E-03 1.4E-05  
 CHILD 8.2E-03 8.2E-03 6.0E-05 8.3E-03 8.3E-03 8.2E-03 8.2E-03 1.4E-05  
 INFNT 1.7E-03 1.7E-03 2.8E-05 1.7E-03 1.7E-03 1.7E-03 1.7E-03 1.4E-05

## TOTALS

ADULT 5.3E-03 5.3E-03 2.4E-05 5.4E-03 5.3E-03 5.3E-03 5.3E-03 1.4E-05  
 TEEN 6.0E-03 5.9E-03 3.2E-05 6.0E-03 6.0E-03 5.9E-03 6.0E-03 1.4E-05  
 CHILD 8.2E-03 8.2E-03 6.0E-05 8.3E-03 8.3E-03 8.2E-03 8.2E-03 1.4E-05  
 INFNT 1.7E-03 1.7E-03 2.8E-05 1.7E-03 1.7E-03 1.7E-03 1.7E-03 1.4E-05



## THIS IS LAST ACCUMULATION

## INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.9E-07  
 TEEN 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.9E-07  
 CHILD 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.9E-07  
 INFNT 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.0E-07 5.9E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 1.5E-04 1.5E-04 3.2E-07 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 TEEN 1.7E-04 1.7E-04 5.0E-07 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 CHILD 2.6E-04 2.6E-04 1.2E-06 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 2.1E-05 2.1E-05 3.1E-08 2.1E-05 2.1E-05 2.1E-05 2.1E-05 0.0E+00  
 TEEN 1.3E-05 1.3E-05 2.6E-08 1.3E-05 1.3E-05 1.3E-05 1.3E-05 0.0E+00  
 CHILD 1.5E-05 1.5E-05 4.8E-08 1.5E-05 1.5E-05 1.5E-05 1.5E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

TW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 5.0E-05 5.0E-05 2.7E-07 5.0E-05 5.0E-05 5.0E-05 5.0E-05 0.0E+00  
 TEEN 6.5E-05 6.5E-05 4.8E-07 6.6E-05 6.5E-05 6.5E-05 6.5E-05 0.0E+00  
 CHILD 1.0E-04 1.0E-04 1.2E-06 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
 INFNT 1.6E-04 1.6E-04 1.8E-06 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 1.0E-04 1.0E-04 8.0E-07 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
 TEEN 1.3E-04 1.3E-04 1.4E-06 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
 CHILD 2.1E-04 2.1E-04 3.5E-06 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00  
 INFNT 3.2E-04 3.2E-04 5.6E-06 3.3E-04 3.2E-04 3.2E-04 3.2E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 8.2E-05 8.2E-05 7.8E-09 8.2E-05 8.2E-05 8.2E-05 8.2E-05 0.0E+00  
 TEEN 8.3E-05 8.3E-05 1.1E-08 8.3E-05 8.3E-05 8.3E-05 8.3E-05 0.0E+00  
 CHILD 7.3E-05 7.3E-05 1.5E-08 7.3E-05 7.3E-05 7.3E-05 7.3E-05 0.0E+00  
 INFNT 4.2E-05 4.2E-05 8.9E-09 4.2E-05 4.2E-05 4.2E-05 4.2E-05 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 4.1E-04 4.0E-04 1.9E-06 4.1E-04 4.0E-04 4.0E-04 4.0E-04 5.9E-07  
 TEEN 4.6E-04 4.6E-04 3.0E-06 4.7E-04 4.6E-04 4.6E-04 4.6E-04 5.9E-07  
 CHILD 6.6E-04 6.6E-04 6.4E-06 6.7E-04 6.6E-04 6.6E-04 6.6E-04 5.9E-07  
 INFNT 5.2E-04 5.2E-04 7.9E-06 5.3E-04 5.2E-04 5.2E-04 5.2E-04 5.9E-07

## TOTALS

ADULT 4.1E-04 4.0E-04 1.9E-06 4.1E-04 4.0E-04 4.0E-04 4.0E-04 5.9E-07  
 TEEN 4.6E-04 4.6E-04 3.0E-06 4.7E-04 4.6E-04 4.6E-04 4.6E-04 5.9E-07  
 CHILD 6.6E-04 6.6E-04 6.4E-06 6.7E-04 6.6E-04 6.6E-04 6.6E-04 5.9E-07  
 INFNT 5.2E-04 5.2E-04 7.9E-06 5.3E-04 5.2E-04 5.2E-04 5.2E-04 5.9E-07

THIS IS LAST ACCUMULATION





# INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 7.0E-07  
 TEEN 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 7.0E-07  
 CHILD 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 7.0E-07  
 INFNT 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 6.0E-07 7.0E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 2.5E-04 2.5E-04 3.8E-07 2.5E-04 2.5E-04 2.5E-04 2.5E-04 0.0E+00  
 TEEN 2.8E-04 2.8E-04 6.0E-07 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
 CHILD 4.3E-04 4.3E-04 1.4E-06 4.4E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 3.5E-05 3.5E-05 3.7E-08 3.5E-05 3.5E-05 3.5E-05 3.5E-05 0.0E+00  
 TEEN 2.1E-05 2.1E-05 3.1E-08 2.1E-05 2.1E-05 2.1E-05 2.1E-05 0.0E+00  
 CHILD 2.5E-05 2.5E-05 5.7E-08 2.5E-05 2.5E-05 2.5E-05 2.5E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

DEER PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 8.3E-05 8.3E-05 3.2E-07 8.3E-05 8.3E-05 8.3E-05 8.3E-05 0.0E+00  
 TEEN 1.1E-04 1.1E-04 5.7E-07 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 CHILD 1.7E-04 1.7E-04 1.4E-06 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 INFNT 2.6E-04 2.6E-04 2.2E-06 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.7E-04 1.7E-04 9.5E-07 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 TEEN 2.2E-04 2.2E-04 1.7E-06 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
 CHILD 3.5E-04 3.5E-04 4.1E-06 3.5E-04 3.5E-04 3.5E-04 3.5E-04 0.0E+00  
 INFNT 5.3E-04 5.3E-04 6.6E-06 5.4E-04 5.3E-04 5.3E-04 5.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.4E-04 1.4E-04 1.0E-08 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 TEEN 1.4E-04 1.4E-04 1.4E-08 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 CHILD 1.2E-04 1.2E-04 1.9E-08 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 INFNT 7.0E-05 7.0E-05 1.2E-08 7.0E-05 7.0E-05 7.0E-05 7.0E-05 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 6.7E-04 6.7E-04 2.3E-06 6.7E-04 6.7E-04 6.7E-04 6.7E-04 7.0E-07  
 TEEN 7.7E-04 7.7E-04 3.5E-06 7.7E-04 7.7E-04 7.7E-04 7.7E-04 7.0E-07  
 CHILD 1.1E-03 1.1E-03 7.6E-06 1.1E-03 1.1E-03 1.1E-03 1.1E-03 7.0E-07  
 INFNT 8.6E-04 8.6E-04 9.4E-06 8.7E-04 8.6E-04 8.6E-04 8.6E-04 7.0E-07

## TOTALS

ADULT 6.7E-04 6.7E-04 2.3E-06 6.7E-04 6.7E-04 6.7E-04 6.7E-04 7.0E-07  
 TEEN 7.7E-04 7.7E-04 3.5E-06 7.7E-04 7.7E-04 7.7E-04 7.7E-04 7.0E-07  
 CHILD 1.1E-03 1.1E-03 7.6E-06 1.1E-03 1.1E-03 1.1E-03 1.1E-03 7.0E-07  
 INFNT 8.6E-04 8.6E-04 9.4E-06 8.7E-04 8.6E-04 8.6E-04 8.6E-04 7.0E-07

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT



FOR DATES 98 4 1 1 THRU 98 63024  
T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 7.1E-08 3.2E-06  
TEEN 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 7.1E-08 3.2E-06  
CHILD 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 7.1E-08 3.2E-06  
INFNT 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 2.7E-08 7.1E-08 3.2E-06

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 7.9E-07  
TEEN 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 7.9E-07  
CHILD 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 7.9E-07  
INFNT 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 6.8E-07 7.9E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 4.9E-04 4.9E-04 4.3E-07 4.9E-04 4.9E-04 4.9E-04 4.9E-04 4.9E-04 0.0E+00  
TEEN 5.7E-04 5.7E-04 6.8E-07 5.7E-04 5.7E-04 5.7E-04 5.7E-04 5.7E-04 0.0E+00  
CHILD 8.7E-04 8.7E-04 1.6E-06 8.8E-04 8.8E-04 8.7E-04 8.7E-04 8.7E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 7.1E-05 7.1E-05 4.2E-08 7.1E-05 7.1E-05 7.1E-05 7.1E-05 7.1E-05 0.0E+00  
TEEN 4.2E-05 4.2E-05 3.5E-08 4.2E-05 4.2E-05 4.2E-05 4.2E-05 4.2E-05 0.0E+00  
CHILD 5.1E-05 5.1E-05 6.5E-08 5.1E-05 5.1E-05 5.1E-05 5.1E-05 5.1E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 1.7E-04 1.7E-04 3.6E-07 1.7E-04 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
TEEN 2.2E-04 2.2E-04 6.5E-07 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
CHILD 3.4E-04 3.4E-04 1.6E-06 3.4E-04 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
INFNT 5.2E-04 5.2E-04 2.5E-06 5.2E-04 5.2E-04 5.2E-04 5.2E-04 5.2E-04 0.0E+00

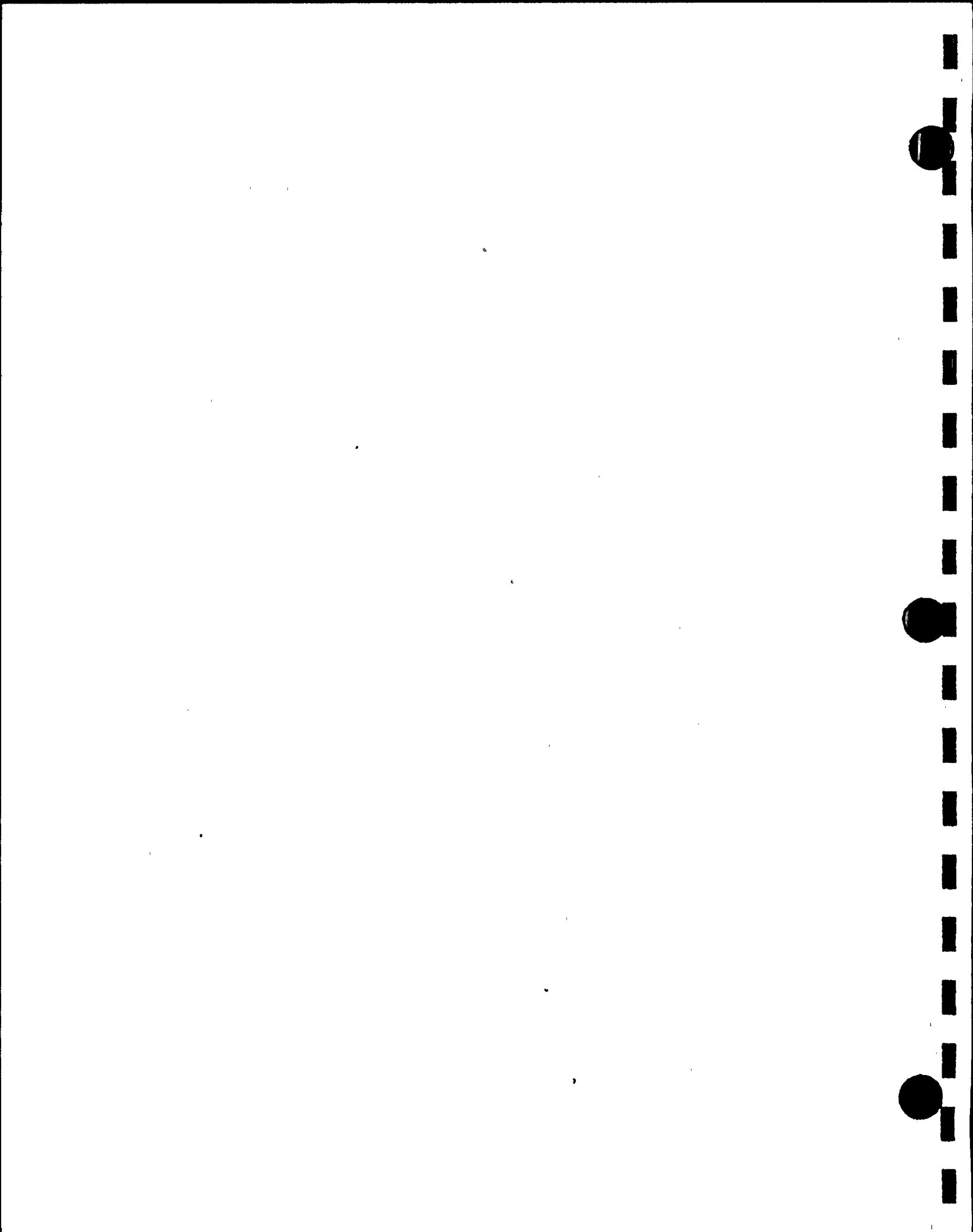
GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 3.4E-04 3.4E-04 1.1E-06 3.4E-04 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
TEEN 4.4E-04 4.4E-04 1.9E-06 4.5E-04 4.4E-04 4.4E-04 4.4E-04 4.4E-04 0.0E+00  
CHILD 7.0E-04 7.0E-04 4.7E-06 7.0E-04 7.0E-04 7.0E-04 7.0E-04 7.0E-04 0.0E+00  
INFNT 1.1E-03 1.1E-03 7.5E-06 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.7E-04 2.7E-04 1.2E-08 2.7E-04 2.7E-04 2.7E-04 2.7E-04 2.7E-04 0.0E+00  
TEEN 2.8E-04 2.8E-04 1.7E-08 2.8E-04 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
CHILD 2.4E-04 2.4E-04 2.3E-08 2.4E-04 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
INFNT 1.4E-04 1.4E-04 1.4E-08 1.4E-04 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00

SUBTOTALS (NO PLUME)  
ADULT 1.3E-03 1.3E-03 2.6E-06 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.3E-03 7.9E-07  
TEEN 1.5E-03 1.5E-03 4.0E-06 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 7.9E-07  
CHILD 2.2E-03 2.2E-03 8.6E-06 2.2E-03 2.2E-03 2.2E-03 2.2E-03 2.2E-03 7.9E-07  
INFNT 1.7E-03 1.7E-03 1.1E-05 1.7E-03 1.7E-03 1.7E-03 1.7E-03 1.7E-03 7.9E-07

TOTALS  
ADULT 1.3E-03 1.3E-03 2.6E-06 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.3E-03 4.0E-06  
TEEN 1.5E-03 1.5E-03 4.0E-06 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 4.0E-06  
CHILD 2.2E-03 2.2E-03 8.7E-06 2.2E-03 2.2E-03 2.2E-03 2.2E-03 2.2E-03 4.0E-06  
INFNT 1.7E-03 1.7E-03 1.1E-05 1.7E-03 1.7E-03 1.7E-03 1.7E-03 1.7E-03 4.0E-06

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 4 1 1 THRU 98 63024



T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 1.0E-09 4.7E-08  
 TEEN 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 1.0E-09 4.7E-08  
 CHILD 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 1.0E-09 4.7E-08  
 INFNT 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 3.9E-10 1.0E-09 4.7E-08

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 7.3E-07  
 TEEN 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 7.3E-07  
 CHILD 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 7.3E-07  
 INFNT 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 6.3E-07 7.3E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 3.3E-04 3.3E-04 3.9E-07 3.3E-04 3.3E-04 3.3E-04 3.3E-04 3.3E-04 0.0E+00  
 TEEN 3.8E-04 3.8E-04 6.3E-07 3.8E-04 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
 CHILD 5.9E-04 5.9E-04 1.5E-06 5.9E-04 5.9E-04 5.9E-04 5.9E-04 5.9E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 4.8E-05 4.8E-05 3.9E-08 4.8E-05 4.8E-05 4.8E-05 4.8E-05 4.8E-05 0.0E+00  
 TEEN 2.8E-05 2.8E-05 3.2E-08 2.8E-05 2.8E-05 2.8E-05 2.8E-05 2.8E-05 0.0E+00  
 CHILD 3.4E-05 3.4E-05 6.0E-08 3.4E-05 3.4E-05 3.4E-05 3.4E-05 3.4E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 1.1E-04 1.1E-04 3.3E-07 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 TEEN 1.5E-04 1.5E-04 6.0E-07 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 CHILD 2.3E-04 2.3E-04 1.4E-06 2.3E-04 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
 INFNT 3.5E-04 3.5E-04 2.3E-06 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 2.3E-04 2.3E-04 9.9E-07 2.3E-04 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
 TEEN 3.0E-04 3.0E-04 1.8E-06 3.0E-04 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
 CHILD 4.7E-04 4.7E-04 4.3E-06 4.7E-04 4.7E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
 INFNT 7.2E-04 7.2E-04 6.9E-06 7.2E-04 7.2E-04 7.2E-04 7.2E-04 7.2E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 1.8E-04 1.8E-04 9.2E-09 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
 TEEN 1.8E-04 1.8E-04 1.3E-08 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
 CHILD 1.6E-04 1.6E-04 1.7E-08 1.6E-04 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
 INFNT 9.4E-05 9.4E-05 1.1E-08 9.4E-05 9.4E-05 9.4E-05 9.4E-05 9.4E-05 0.0E+00

#### SUBTOTALS (NO PLUME)

ADULT 9.1E-04 9.0E-04 2.4E-06 9.1E-04 9.1E-04 9.0E-04 9.0E-04 7.3E-07  
 TEEN 1.0E-03 1.0E-03 3.7E-06 1.0E-03 1.0E-03 1.0E-03 1.0E-03 7.3E-07  
 CHILD 1.5E-03 1.5E-03 8.0E-06 1.5E-03 1.5E-03 1.5E-03 1.5E-03 7.3E-07  
 INFNT 1.2E-03 1.2E-03 9.9E-06 1.2E-03 1.2E-03 1.2E-03 1.2E-03 7.3E-07

#### TOTALS

ADULT 9.1E-04 9.0E-04 2.4E-06 9.1E-04 9.1E-04 9.0E-04 9.0E-04 7.8E-07  
 TEEN 1.0E-03 1.0E-03 3.7E-06 1.0E-03 1.0E-03 1.0E-03 1.0E-03 7.8E-07  
 CHILD 1.5E-03 1.5E-03 8.0E-06 1.5E-03 1.5E-03 1.5E-03 1.5E-03 7.8E-07  
 INFNT 1.2E-03 1.2E-03 9.9E-06 1.2E-03 1.2E-03 1.2E-03 1.2E-03 7.8E-07

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 4 1 1 THRU 98 63024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN



PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	3.3E-08	1.5E-06
TEEN	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	3.3E-08	1.5E-06
CHILD	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	3.3E-08	1.5E-06
INFNT	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	3.3E-08	1.5E-06

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	6.7E-07
TEEN	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	6.7E-07
CHILD	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	6.7E-07
INFNT	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	5.7E-07	6.7E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	4.7E-04	4.7E-04	3.6E-07	4.7E-04	4.7E-04	4.7E-04	4.7E-04	0.0E+00
TEEN	5.4E-04	5.4E-04	5.7E-07	5.4E-04	5.4E-04	5.4E-04	5.4E-04	0.0E+00
CHILD	8.4E-04	8.4E-04	1.4E-06	8.4E-04	8.4E-04	8.4E-04	8.4E-04	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	6.8E-05	6.8E-05	3.6E-08	6.8E-05	6.8E-05	6.8E-05	6.8E-05	0.0E+00
TEEN	4.1E-05	4.1E-05	3.0E-08	4.1E-05	4.1E-05	4.1E-05	4.1E-05	0.0E+00
CHILD	4.9E-05	4.9E-05	5.5E-08	4.9E-05	4.9E-05	4.9E-05	4.9E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	1.6E-04	1.6E-04	3.0E-07	1.6E-04	1.6E-04	1.6E-04	1.6E-04	0.0E+00
TEEN	2.1E-04	2.1E-04	5.5E-07	2.1E-04	2.1E-04	2.1E-04	2.1E-04	0.0E+00
CHILD	3.3E-04	3.3E-04	1.3E-06	3.3E-04	3.3E-04	3.3E-04	3.3E-04	0.0E+00
INFNT	5.0E-04	5.0E-04	2.1E-06	5.0E-04	5.0E-04	5.0E-04	5.0E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	3.3E-04	3.3E-04	9.1E-07	3.3E-04	3.3E-04	3.3E-04	3.3E-04	0.0E+00
TEEN	4.2E-04	4.2E-04	1.7E-06	4.3E-04	4.2E-04	4.2E-04	4.2E-04	0.0E+00
CHILD	6.7E-04	6.7E-04	4.0E-06	6.7E-04	6.7E-04	6.7E-04	6.7E-04	0.0E+00
INFNT	1.0E-03	1.0E-03	6.3E-06	1.0E-03	1.0E-03	1.0E-03	1.0E-03	0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW

ADULT	2.6E-04	2.6E-04	1.2E-08	2.6E-04	2.6E-04	2.6E-04	2.6E-04	0.0E+00
TEEN	2.6E-04	2.6E-04	1.7E-08	2.6E-04	2.6E-04	2.6E-04	2.6E-04	0.0E+00
CHILD	2.3E-04	2.3E-04	2.3E-08	2.3E-04	2.3E-04	2.3E-04	2.3E-04	0.0E+00
INFNT	1.3E-04	1.3E-04	1.4E-08	1.3E-04	1.3E-04	1.3E-04	1.3E-04	0.0E+00

#### SUBTOTALS (NO PLUME)

ADULT	1.3E-03	1.3E-03	2.2E-06	1.3E-03	1.3E-03	1.3E-03	1.3E-03	6.7E-07
TEEN	1.5E-03	1.5E-03	3.4E-06	1.5E-03	1.5E-03	1.5E-03	1.5E-03	6.7E-07
CHILD	2.1E-03	2.1E-03	7.3E-06	2.1E-03	2.1E-03	2.1E-03	2.1E-03	6.7E-07
INFNT	1.7E-03	1.7E-03	9.0E-06	1.7E-03	1.7E-03	1.7E-03	1.7E-03	6.7E-07

#### TOTALS

ADULT	1.3E-03	1.3E-03	2.2E-06	1.3E-03	1.3E-03	1.3E-03	1.3E-03	2.2E-06
TEEN	1.5E-03	1.5E-03	3.4E-06	1.5E-03	1.5E-03	1.5E-03	1.5E-03	2.2E-06
CHILD	2.1E-03	2.1E-03	7.3E-06	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.2E-06
INFNT	1.7E-03	1.7E-03	9.1E-06	1.7E-03	1.7E-03	1.7E-03	1.7E-03	2.2E-06

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 4 1 1 THRU 98 63024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	1.7E-06	7.5E-05
TEEN	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	1.7E-06	7.5E-05
CHILD	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	1.7E-06	7.5E-05
INFNT	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	6.2E-07	1.7E-06	7.5E-05

GROUND	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	1.1E-06
TEEN	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	1.1E-06
CHILD	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	1.1E-06
INFNT	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	9.5E-07	1.1E-06

VEGET	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	6.0E-04	6.0E-04	6.0E-07	6.0E-04	6.0E-04	6.0E-04	6.0E-04	0.0E+00
TEEN	6.9E-04	6.9E-04	9.5E-07	6.9E-04	6.9E-04	6.9E-04	6.9E-04	0.0E+00
CHILD	1.1E-03	1.1E-03	2.2E-06	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	8.7E-05	8.7E-05	5.9E-08	8.7E-05	8.7E-05	8.7E-05	8.7E-05	0.0E+00
TEEN	5.2E-05	5.2E-05	4.9E-08	5.2E-05	5.2E-05	5.2E-05	5.2E-05	0.0E+00
CHILD	6.3E-05	6.3E-05	9.0E-08	6.3E-05	6.3E-05	6.3E-05	6.3E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	2.0E-04	2.0E-04	5.0E-07	2.0E-04	2.0E-04	2.0E-04	2.0E-04	0.0E+00
TEEN	2.7E-04	2.7E-04	9.1E-07	2.7E-04	2.7E-04	2.7E-04	2.7E-04	0.0E+00
CHILD	4.2E-04	4.2E-04	2.2E-06	4.2E-04	4.2E-04	4.2E-04	4.2E-04	0.0E+00
INFNT	6.4E-04	6.4E-04	3.5E-06	6.4E-04	6.4E-04	6.4E-04	6.4E-04	0.0E+00

GOAT	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	4.2E-04	4.2E-04	1.5E-06	4.2E-04	4.2E-04	4.2E-04	4.2E-04	0.0E+00
TEEN	5.4E-04	5.4E-04	2.7E-06	5.5E-04	5.4E-04	5.4E-04	5.4E-04	0.0E+00
CHILD	8.5E-04	8.5E-04	6.6E-06	8.6E-04	8.5E-04	8.5E-04	8.5E-04	0.0E+00
INFNT	1.3E-03	1.3E-03	1.0E-05	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00

INHAL	PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW							
ADULT	3.3E-04	3.3E-04	2.8E-08	3.3E-04	3.3E-04	3.3E-04	3.3E-04	0.0E+00
TEEN	3.4E-04	3.4E-04	3.9E-08	3.4E-04	3.4E-04	3.4E-04	3.4E-04	0.0E+00
CHILD	3.0E-04	3.0E-04	5.3E-08	3.0E-04	3.0E-04	3.0E-04	3.0E-04	0.0E+00
INFNT	1.7E-04	1.7E-04	3.2E-08	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00

SUBTOTALS (NO PLUME)								
ADULT	1.6E-03	1.6E-03	3.6E-06	1.6E-03	1.6E-03	1.6E-03	1.6E-03	1.1E-06
TEEN	1.9E-03	1.9E-03	5.6E-06	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.1E-06
CHILD	2.7E-03	2.7E-03	1.2E-05	2.7E-03	2.7E-03	2.7E-03	2.7E-03	1.1E-06
INFNT	2.1E-03	2.1E-03	1.5E-05	2.1E-03	2.1E-03	2.1E-03	2.1E-03	1.1E-06

TOTALS								
ADULT	1.6E-03	1.6E-03	4.3E-06	1.6E-03	1.6E-03	1.6E-03	1.6E-03	7.6E-05
TEEN	1.9E-03	1.9E-03	6.3E-06	1.9E-03	1.9E-03	1.9E-03	1.9E-03	7.6E-05
CHILD	2.7E-03	2.7E-03	1.3E-05	2.7E-03	2.7E-03	2.7E-03	2.7E-03	7.6E-05
INFNT	2.1E-03	2.1E-03	1.6E-05	2.1E-03	2.1E-03	2.1E-03	2.1E-03	7.6E-05



## 1998 Annual Radioactive Effluent Release Report

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### Appendix 4: Summary of Maximum Individual Doses, Third Quarter 1998

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (Toward)	Percent of Applicable limit	Limit (mrem) QTR
Liquid	Total Body	1.37 E-02	Child	Receptor 1	9.1 E-01	1.5 E+00
Liquid	GI-Tract	1.62 E-02	Child	Receptor 1	3.2 E-01	5.0 E+00
Noble Gas	Air dose (Gamma-mrad)	4.42 E-06		617 NNE	8.8E-05	5.0 E+00
Noble Gas	Air Dose (Beta-mrad)	5.01 E-04		617 NNE	5.0 E-04	1.0 E+01
Iodines and Particulates	T. Body	5.68 E-02	Child	659 N	7.6 E-01	7.5 E+00



FOR RECEPTOR NUMBER 1

LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 7 1 1 END DATE 99 93024

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
WATER								
ADULT	2.2E-05	9.1E-03	9.2E-03	9.1E-03	9.1E-03	9.1E-03	1.0E-02	0.0E+00
TEEN	2.1E-05	6.5E-03	6.5E-03	6.4E-03	6.4E-03	6.4E-03	7.1E-03	0.0E+00
CHILD	6.0E-05	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.3E-02	0.0E+00
INFANT	6.4E-05	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	0.0E+00
SHORE								
ADULT	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.9E-04
TEEN	9.3E-04	9.3E-04	9.3E-04	9.3E-04	9.3E-04	9.3E-04	9.3E-04	1.1E-03
CHILD	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	2.3E-04
INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
FW SPT FISH								
ADULT	2.3E-03	4.1E-03	2.9E-03	6.1E-04	1.8E-03	9.6E-04	3.5E-03	0.0E+00
TEEN	2.5E-03	4.1E-03	1.9E-03	4.7E-04	1.7E-03	8.9E-04	2.4E-03	0.0E+00
CHILD	3.1E-03	3.6E-03	1.1E-03	3.9E-04	1.5E-03	7.3E-04	1.1E-03	0.0E+00
INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

LAST LIQUID DOSE ACCUMULATIONS (MREM)

START DATE 98 7 1 1 END DATE 99 93024

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
TOTAL								
ADULT	2.5E-03	1.3E-02	1.2E-02	9.9E-03	1.1E-02	1.0E-02	1.4E-02	1.9E-04
TEEN	3.4E-03	1.1E-02	9.3E-03	7.8E-03	9.1E-03	8.2E-03	1.0E-02	1.1E-03
CHILD	3.3E-03	1.6E-02	1.4E-02	1.3E-02	1.4E-02	1.3E-02	1.4E-02	2.3E-04
INFANT	6.4E-05	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	0.0E+00



GA

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

3.7608E-06	5.2669E-07	2.3970E-07	1.3772E-07	9.6926E-08
4.9337E-08	1.9115E-08	9.4254E-09	6.0097E-09	3.7489E-09

\*\*DIRECTION FROM NNE

4.2173E-06	5.3001E-07	2.7336E-07	1.7296E-07	1.2281E-07
6.2184E-08	2.5590E-08	1.3207E-08	8.6608E-09	5.5463E-09

\*\*DIRECTION FROM NE

4.9662E-06	5.4806E-07	2.7885E-07	1.7387E-07	1.2573E-07
6.6314E-08	2.7450E-08	1.3778E-08	8.8346E-09	5.7133E-09

\*\*DIRECTION FROM ENE

7.4264E-07	9.5545E-08	4.9160E-08	3.1035E-08	2.1996E-08
1.1094E-08	4.5405E-09	2.3316E-09	1.5241E-09	9.7247E-10

\*\*DIRECTION FROM E

1.1714E-05	1.1131E-06	6.0115E-07	3.9019E-07	2.8574E-07
1.5322E-07	6.5260E-08	3.3051E-08	2.1270E-08	1.3952E-08

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

4.1883E-07	1.3705E-08	5.0444E-09	3.2057E-09	2.4313E-09
1.4588E-09	7.2935E-10	4.3761E-10	3.1258E-10	2.1867E-10

\*\*DIRECTION FROM SSE

1.2589E-05	1.2269E-06	6.6536E-07	4.3196E-07	3.1622E-07
1.6938E-07	7.2018E-08	3.6394E-08	2.3385E-08	1.5323E-08

\*\*DIRECTION FROM S

4.8511E-06	6.2412E-07	3.2112E-07	2.0272E-07	1.4368E-07
7.2468E-08	2.9660E-08	1.5231E-08	9.9557E-09	6.3523E-09

\*\*DIRECTION FROM SSW

4.6615E-06	6.2926E-07	3.0094E-07	1.8009E-07	1.2709E-07
6.4354E-08	2.5530E-08	1.2820E-08	8.2676E-09	5.2104E-09

\*\*DIRECTION FROM SW

1.3694E-06	1.7870E-07	8.0981E-08	4.6617E-08	3.2859E-08
1.6790E-08	6.5529E-09	3.2539E-09	2.0845E-09	1.3072E-09

\*\*DIRECTION FROM WSW

1.9912E-06	1.9406E-07	1.0524E-07	6.8323E-08	5.0017E-08
2.6792E-08	1.1391E-08	5.7564E-09	3.6988E-09	2.4237E-09

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

1.9897E-07	9.6870E-09	5.8219E-09	4.1570E-09	3.2326E-09
1.9395E-09	9.6971E-10	5.8182E-10	4.1559E-10	2.9073E-10

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0  
12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0

12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DOSE TYPE

ENTER: [GA] GAMMA

[BE] BETA

[RETURN] GO BACK TO PREVIOUS OPTION



BE

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR BETA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

4.2645E-04	5.9724E-05	2.7181E-05	1.5617E-05	1.0991E-05
5.5945E-06	2.1675E-06	1.0688E-06	6.8146E-07	4.2511E-07

\*\*DIRECTION FROM NNE

4.7822E-04	6.0100E-05	3.0998E-05	1.9612E-05	1.3926E-05
7.0514E-06	2.9018E-06	1.4976E-06	9.8209E-07	6.2892E-07

\*\*DIRECTION FROM NE

5.6314E-04	6.2147E-05	3.1620E-05	1.9716E-05	1.4257E-05
7.5197E-06	3.1127E-06	1.5624E-06	1.0018E-06	6.4786E-07

\*\*DIRECTION FROM ENE

8.4211E-05	1.0834E-05	5.5745E-06	3.5192E-06	2.4942E-06
1.2580E-06	5.1487E-07	2.6439E-07	1.7282E-07	1.1027E-07

\*\*DIRECTION FROM E

1.3283E-03	1.2622E-04	6.8167E-05	4.4246E-05	3.2401E-05
1.7374E-05	7.4001E-06	3.7478E-06	2.4119E-06	1.5821E-06

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR BETA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

4.7493E-05	1.5541E-06	5.7201E-07	3.6351E-07	2.7570E-07
1.6542E-07	8.2705E-08	4.9623E-08	3.5445E-08	2.4796E-08

\*\*DIRECTION FROM SSE

1.4275E-03	1.3912E-04	7.5448E-05	4.8981E-05	3.5858E-05
1.9207E-05	8.1664E-06	4.1268E-06	2.6517E-06	1.7376E-06

\*\*DIRECTION FROM S

5.5008E-04	7.0772E-05	3.6414E-05	2.2988E-05	1.6293E-05
8.2174E-06	3.3632E-06	1.7271E-06	1.1289E-06	7.2032E-07

\*\*DIRECTION FROM SSW

5.2859E-04	7.1355E-05	3.4125E-05	2.0421E-05	1.4411E-05
7.2974E-06	2.8949E-06	1.4538E-06	9.3751E-07	5.9084E-07

\*\*DIRECTION FROM SW

1.5528E-04	2.0264E-05	9.1828E-06	5.2861E-06	3.7261E-06
1.9039E-06	7.4307E-07	3.6898E-07	2.3637E-07	1.4823E-07

\*\*DIRECTION FROM WSW

2.2579E-04	2.2005E-05	1.1934E-05	7.7474E-06	5.6717E-06
3.0380E-06	1.2917E-06	6.5275E-07	4.1942E-07	2.7483E-07

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0

DOSE ACCUMULATION FOR BETA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

2.2562E-05	1.0985E-06	6.6017E-07	4.7138E-07	3.6656E-07
2.1993E-07	1.0996E-07	6.5976E-08	4.7125E-08	3.2967E-08

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0  
12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0

DOSE ACCUMULATION FOR BETA MRAD

FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 98 7 1 1 0 TO 98 930 1 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



THIS IS LAST ACCUMULATION  
 GAS DOSE ACCU, START DATE 98 7 1 1 END DATE 98 93024  
 NUMBER OF GOOD HOURS OF GASEOUS DOSE ACCUMULATION 2208  
 NUMBER OF BAD HOURS - NO GAS DOSE ACCUMULATION... 0  
 DOSE RATIO (NGOOD+NBAD)/NGOOD IS..... 1.0000  
 DOSES ARE..... NOT RATIOED

THIS IS LAST ACCUMULATION  
 INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT  
 FOR DATES 98 7 1 1 THRU 98 93024  
 T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 7.2E-06 3.3E-04  
 TEEN 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 7.2E-06 3.3E-04  
 CHILD 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 7.2E-06 3.3E-04  
 INFNT 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 2.7E-06 7.2E-06 3.3E-04

GROUND PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
 ADULT 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00  
 TEEN 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
 CHILD 1.8E-03 1.8E-03 0.0E+00 1.8E-03 1.8E-03 1.8E-03 1.8E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
 ADULT 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 TEEN 8.6E-05 8.6E-05 0.0E+00 8.6E-05 8.6E-05 8.6E-05 8.6E-05 0.0E+00  
 CHILD 1.0E-04 1.0E-04 0.0E+00 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
 ADULT 8.2E-04 8.2E-04 0.0E+00 8.2E-04 8.2E-04 8.2E-04 8.2E-04 0.0E+00  
 TEEN 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
 CHILD 1.7E-03 1.7E-03 0.0E+00 1.7E-03 1.7E-03 1.7E-03 1.7E-03 0.0E+00  
 INFNT 2.6E-03 2.6E-03 0.0E+00 2.6E-03 2.6E-03 2.6E-03 2.6E-03 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
 ADULT 1.7E-03 1.7E-03 0.0E+00 1.7E-03 1.7E-03 1.7E-03 1.7E-03 0.0E+00  
 TEEN 2.2E-03 2.2E-03 0.0E+00 2.2E-03 2.2E-03 2.2E-03 2.2E-03 0.0E+00  
 CHILD 3.4E-03 3.4E-03 0.0E+00 3.4E-03 3.4E-03 3.4E-03 3.4E-03 0.0E+00  
 INFNT 5.3E-03 5.3E-03 0.0E+00 5.3E-03 5.3E-03 5.3E-03 5.3E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 2.1E-02 2.1E-02 0.0E+00 2.1E-02 2.1E-02 2.1E-02 2.1E-02 0.0E+00  
 TEEN 2.1E-02 2.1E-02 0.0E+00 2.1E-02 2.1E-02 2.1E-02 2.1E-02 0.0E+00  
 CHILD 1.9E-02 1.9E-02 0.0E+00 1.9E-02 1.9E-02 1.9E-02 1.9E-02 0.0E+00  
 INFNT 1.1E-02 1.1E-02 0.0E+00 1.1E-02 1.1E-02 1.1E-02 1.1E-02 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 2.5E-02 2.5E-02 0.0E+00 2.5E-02 2.5E-02 2.5E-02 2.5E-02 0.0E+00  
 TEEN 2.6E-02 2.6E-02 0.0E+00 2.6E-02 2.6E-02 2.6E-02 2.6E-02 0.0E+00



CHILD	2.6E-02	2.6E-02	0.0E+00	2.6E-02	2.6E-02	2.6E-02	2.6E-02	0.0E+00
INFNT	1.9E-02	1.9E-02	0.0E+00	1.9E-02	1.9E-02	1.9E-02	1.9E-02	0.0E+00

# DOSE RATES

ADULT	2.5E-02	2.5E-02	2.7E-06	2.5E-02	2.5E-02	2.5E-02	2.5E-02	3.3E-04
TEEN	2.6E-02	2.6E-02	2.7E-06	2.6E-02	2.6E-02	2.6E-02	2.6E-02	3.3E-04
CHILD	2.6E-02	2.6E-02	2.7E-06	2.6E-02	2.6E-02	2.6E-02	2.6E-02	3.3E-04
INFNT	1.9E-02	1.9E-02	2.7E-06	1.9E-02	1.9E-02	1.9E-02	1.9E-02	3.3E-04

## THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
--------	---------	------	-------	--------	-------	------	------

PLUME PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	6.9E-06	3.1E-04
TEEN	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	6.9E-06	3.1E-04
CHILD	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	6.9E-06	3.1E-04
INFNT	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	6.9E-06	3.1E-04

GROUND PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 814. METERS WINDS TOWARD NNE

ADULT	2.0E-02	2.0E-02	0.0E+00	2.0E-02	2.0E-02	2.0E-02	2.0E-02	0.0E+00
TEEN	2.3E-02	2.3E-02	0.0E+00	2.3E-02	2.3E-02	2.3E-02	2.3E-02	0.0E+00
CHILD	3.5E-02	3.5E-02	0.0E+00	3.5E-02	3.5E-02	3.5E-02	3.5E-02	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NNE

ADULT	1.1E-04	1.1E-04	0.0E+00	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
TEEN	6.5E-05	6.5E-05	0.0E+00	6.5E-05	6.5E-05	6.5E-05	6.5E-05	0.0E+00
CHILD	7.9E-05	7.9E-05	0.0E+00	7.9E-05	7.9E-05	7.9E-05	7.9E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE

ADULT	6.0E-04	6.0E-04	0.0E+00	6.0E-04	6.0E-04	6.0E-04	6.0E-04	0.0E+00
TEEN	7.8E-04	7.8E-04	0.0E+00	7.8E-04	7.8E-04	7.8E-04	7.8E-04	0.0E+00
CHILD	1.2E-03	1.2E-03	0.0E+00	1.2E-03	1.2E-03	1.2E-03	1.2E-03	0.0E+00
INFNT	1.9E-03	1.9E-03	0.0E+00	1.9E-03	1.9E-03	1.9E-03	1.9E-03	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE

ADULT	1.2E-03	1.2E-03	0.0E+00	1.2E-03	1.2E-03	1.2E-03	1.2E-03	0.0E+00
TEEN	1.6E-03	1.6E-03	0.0E+00	1.6E-03	1.6E-03	1.6E-03	1.6E-03	0.0E+00
CHILD	2.5E-03	2.5E-03	0.0E+00	2.5E-03	2.5E-03	2.5E-03	2.5E-03	0.0E+00
INFNT	3.8E-03	3.8E-03	0.0E+00	3.8E-03	3.8E-03	3.8E-03	3.8E-03	0.0E+00

INHAL PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE

ADULT	1.5E-02	1.5E-02	0.0E+00	1.5E-02	1.5E-02	1.5E-02	1.5E-02	0.0E+00
TEEN	1.5E-02	1.5E-02	0.0E+00	1.5E-02	1.5E-02	1.5E-02	1.5E-02	0.0E+00
CHILD	1.4E-02	1.4E-02	0.0E+00	1.4E-02	1.4E-02	1.4E-02	1.4E-02	0.0E+00
INFNT	7.8E-03	7.8E-03	0.0E+00	7.8E-03	7.8E-03	7.8E-03	7.8E-03	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	3.7E-02	3.7E-02	0.0E+00	3.7E-02	3.7E-02	3.7E-02	3.7E-02	0.0E+00
TEEN	4.0E-02	4.0E-02	0.0E+00	4.0E-02	4.0E-02	4.0E-02	4.0E-02	0.0E+00
CHILD	5.2E-02	5.2E-02	0.0E+00	5.2E-02	5.2E-02	5.2E-02	5.2E-02	0.0E+00



INFNT 1.4E-02 1.4E-02 0.0E+00 1.4E-02 1.4E-02 1.4E-02 1.4E-02 0.0E+00

TOTALS

ADULT 3.7E-02 3.7E-02 2.6E-06 3.7E-02 3.7E-02 3.7E-02 3.7E-02 3.1E-04  
TEEN 4.0E-02 4.0E-02 2.6E-06 4.0E-02 4.0E-02 4.0E-02 4.0E-02 3.1E-04  
CHILD 5.2E-02 5.2E-02 2.6E-06 5.2E-02 5.2E-02 5.2E-02 5.2E-02 3.1E-04  
INFNT 1.4E-02 1.4E-02 2.6E-06 1.4E-02 1.4E-02 1.4E-02 1.4E-02 3.1E-04

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE

ADULT 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 1.2E-06 5.4E-05  
TEEN 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 1.2E-06 5.4E-05  
CHILD 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 1.2E-06 5.4E-05  
INFNT 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 1.2E-06 5.4E-05

GROUND PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE

ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 1052. METERS WINDS TOWARD NE

ADULT 4.1E-03 4.1E-03 0.0E+00 4.1E-03 4.1E-03 4.1E-03 4.1E-03 0.0E+00  
TEEN 4.6E-03 4.6E-03 0.0E+00 4.6E-03 4.6E-03 4.6E-03 4.6E-03 0.0E+00  
CHILD 7.2E-03 7.2E-03 0.0E+00 7.2E-03 7.2E-03 7.2E-03 7.2E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NE

ADULT 3.1E-05 3.1E-05 0.0E+00 3.1E-05 3.1E-05 3.1E-05 3.1E-05 0.0E+00  
TEEN 1.9E-05 1.9E-05 0.0E+00 1.9E-05 1.9E-05 1.9E-05 1.9E-05 0.0E+00  
CHILD 2.3E-05 2.3E-05 0.0E+00 2.3E-05 2.3E-05 2.3E-05 2.3E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE

ADULT 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
TEEN 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
CHILD 3.7E-04 3.7E-04 0.0E+00 3.7E-04 3.7E-04 3.7E-04 3.7E-04 0.0E+00  
INFNT 5.7E-04 5.7E-04 0.0E+00 5.7E-04 5.7E-04 5.7E-04 5.7E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE

ADULT 3.7E-04 3.7E-04 0.0E+00 3.7E-04 3.7E-04 3.7E-04 3.7E-04 0.0E+00  
TEEN 4.8E-04 4.8E-04 0.0E+00 4.8E-04 4.8E-04 4.8E-04 4.8E-04 0.0E+00  
CHILD 7.6E-04 7.6E-04 0.0E+00 7.6E-04 7.6E-04 7.6E-04 7.6E-04 0.0E+00  
INFNT 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE

ADULT 2.7E-03 2.7E-03 0.0E+00 2.7E-03 2.7E-03 2.7E-03 2.7E-03 0.0E+00  
TEEN 2.7E-03 2.7E-03 0.0E+00 2.7E-03 2.7E-03 2.7E-03 2.7E-03 0.0E+00  
CHILD 2.4E-03 2.4E-03 0.0E+00 2.4E-03 2.4E-03 2.4E-03 2.4E-03 0.0E+00  
INFNT 1.4E-03 1.4E-03 0.0E+00 1.4E-03 1.4E-03 1.4E-03 1.4E-03 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 7.3E-03 7.3E-03 0.0E+00 7.3E-03 7.3E-03 7.3E-03 7.3E-03 0.0E+00  
TEEN 8.1E-03 8.1E-03 0.0E+00 8.1E-03 8.1E-03 8.1E-03 8.1E-03 0.0E+00  
CHILD 1.1E-02 1.1E-02 0.0E+00 1.1E-02 1.1E-02 1.1E-02 1.1E-02 0.0E+00  
INFNT 3.1E-03 3.1E-03 0.0E+00 3.1E-03 3.1E-03 3.1E-03 3.1E-03 0.0E+00





## TOTALS

ADULT	7.3E-03	7.3E-03	4.5E-07	7.3E-03	7.3E-03	7.3E-03	7.3E-03	5.4E-05
TEEN	8.1E-03	8.1E-03	4.5E-07	8.1E-03	8.1E-03	8.1E-03	8.1E-03	5.4E-05
CHILD	1.1E-02	1.1E-02	4.5E-07	1.1E-02	1.1E-02	1.1E-02	1.1E-02	5.4E-05
INFNT	3.1E-03	3.1E-03	4.5E-07	3.1E-03	3.1E-03	3.1E-03	3.1E-03	5.4E-05

## THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

ADULT	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	5.8E-07	2.6E-05
TEEN	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	5.8E-07	2.6E-05
CHILD	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	5.8E-07	2.6E-05
INFNT	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	2.2E-07	5.8E-07	2.6E-05

GROUND PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 1852. METERS WINDS TOWARD ENE

ADULT	1.5E-03	1.5E-03	0.0E+00	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00
TEEN	1.8E-03	1.8E-03	0.0E+00	1.8E-03	1.8E-03	1.8E-03	1.8E-03	0.0E+00
CHILD	2.7E-03	2.7E-03	0.0E+00	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

WATER PATHWAY, DIST GP= 1, 3862. METERS WINDS TOWARD ENE

ADULT	7.8E-05	7.8E-05	0.0E+00	7.8E-05	7.8E-05	7.8E-05	7.8E-05	0.0E+00
TEEN	4.7E-05	4.7E-05	0.0E+00	4.7E-05	4.7E-05	4.7E-05	4.7E-05	0.0E+00
CHILD	5.6E-05	5.6E-05	0.0E+00	5.6E-05	5.6E-05	5.6E-05	5.6E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

ADULT	1.7E-04	1.7E-04	0.0E+00	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
TEEN	2.2E-04	2.2E-04	0.0E+00	2.2E-04	2.2E-04	2.2E-04	2.2E-04	0.0E+00
CHILD	3.5E-04	3.5E-04	0.0E+00	3.5E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00
INFNT	5.3E-04	5.3E-04	0.0E+00	5.3E-04	5.3E-04	5.3E-04	5.3E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

ADULT	3.5E-04	3.5E-04	0.0E+00	3.5E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00
TEEN	4.5E-04	4.5E-04	0.0E+00	4.5E-04	4.5E-04	4.5E-04	4.5E-04	0.0E+00
CHILD	7.1E-04	7.1E-04	0.0E+00	7.1E-04	7.1E-04	7.1E-04	7.1E-04	0.0E+00
INFNT	1.1E-03	1.1E-03	0.0E+00	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

ADULT	9.4E-04	9.4E-04	0.0E+00	9.4E-04	9.4E-04	9.4E-04	9.4E-04	0.0E+00
TEEN	9.5E-04	9.5E-04	0.0E+00	9.5E-04	9.5E-04	9.5E-04	9.5E-04	0.0E+00
CHILD	8.4E-04	8.4E-04	0.0E+00	8.4E-04	8.4E-04	8.4E-04	8.4E-04	0.0E+00
INFNT	4.8E-04	4.8E-04	0.0E+00	4.8E-04	4.8E-04	4.8E-04	4.8E-04	0.0E+00

## BTOTALS (NO PLUME)

ADULT	3.1E-03	3.1E-03	0.0E+00	3.1E-03	3.1E-03	3.1E-03	3.1E-03	0.0E+00
TEEN	3.4E-03	3.4E-03	0.0E+00	3.4E-03	3.4E-03	3.4E-03	3.4E-03	0.0E+00
CHILD	4.7E-03	4.7E-03	0.0E+00	4.7E-03	4.7E-03	4.7E-03	4.7E-03	0.0E+00
INFNT	2.1E-03	2.1E-03	0.0E+00	2.1E-03	2.1E-03	2.1E-03	2.1E-03	0.0E+00



# TOTALS

	ADULT	TEEN	CHILD	INFNT
ADULT	3.1E-03	3.1E-03	2.2E-07	3.1E-03
TEEN	3.4E-03	3.4E-03	2.2E-07	3.4E-03
CHILD	4.7E-03	4.7E-03	2.2E-07	4.7E-03
INFNT	2.1E-03	2.1E-03	2.2E-07	2.1E-03

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 1705. METERS WINDS TOWARD E

ADULT	1.2E-03	1.2E-03	0.0E+00	1.2E-03	1.2E-03	1.2E-03	1.2E-03	0.0E+00
TEEN	1.3E-03	1.3E-03	0.0E+00	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00
CHILD	2.1E-03	2.1E-03	0.0E+00	2.1E-03	2.1E-03	2.1E-03	2.1E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

WATER PATHWAY, DIST GP= 1, 6810. METERS WINDS TOWARD E

ADULT	2.3E-05	2.3E-05	0.0E+00	2.3E-05	2.3E-05	2.3E-05	2.3E-05	0.0E+00
TEEN	1.4E-05	1.4E-05	0.0E+00	1.4E-05	1.4E-05	1.4E-05	1.4E-05	0.0E+00
CHILD	1.7E-05	1.7E-05	0.0E+00	1.7E-05	1.7E-05	1.7E-05	1.7E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	1.1E-04	1.1E-04	0.0E+00	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
TEEN	1.5E-04	1.5E-04	0.0E+00	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
CHILD	2.3E-04	2.3E-04	0.0E+00	2.3E-04	2.3E-04	2.3E-04	2.3E-04	0.0E+00
INFNT	3.5E-04	3.5E-04	0.0E+00	3.5E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	2.3E-04	2.3E-04	0.0E+00	2.3E-04	2.3E-04	2.3E-04	2.3E-04	0.0E+00
TEEN	3.0E-04	3.0E-04	0.0E+00	3.0E-04	3.0E-04	3.0E-04	3.0E-04	0.0E+00
CHILD	4.7E-04	4.7E-04	0.0E+00	4.7E-04	4.7E-04	4.7E-04	4.7E-04	0.0E+00
INFNT	7.1E-04	7.1E-04	0.0E+00	7.1E-04	7.1E-04	7.1E-04	7.1E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	6.4E-04	6.4E-04	0.0E+00	6.4E-04	6.4E-04	6.4E-04	6.4E-04	0.0E+00
TEEN	6.5E-04	6.5E-04	0.0E+00	6.5E-04	6.5E-04	6.5E-04	6.5E-04	0.0E+00
CHILD	5.7E-04	5.7E-04	0.0E+00	5.7E-04	5.7E-04	5.7E-04	5.7E-04	0.0E+00
INFNT	3.3E-04	3.3E-04	0.0E+00	3.3E-04	3.3E-04	3.3E-04	3.3E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.2E-03	2.2E-03	0.0E+00	2.2E-03	2.2E-03	2.2E-03	2.2E-03	0.0E+00
TEEN	2.4E-03	2.4E-03	0.0E+00	2.4E-03	2.4E-03	2.4E-03	2.4E-03	0.0E+00
CHILD	3.4E-03	3.4E-03	0.0E+00	3.4E-03	3.4E-03	3.4E-03	3.4E-03	0.0E+00
INFNT	1.4E-03	1.4E-03	0.0E+00	1.4E-03	1.4E-03	1.4E-03	1.4E-03	0.0E+00

TOTALS

	ADULT	TEEN	CHILD	INFNT
ADULT	2.2E-03	2.2E-03	0.0E+00	2.2E-03
TEEN	2.4E-03	2.4E-03	0.0E+00	2.4E-03
CHILD	3.4E-03	3.4E-03	0.0E+00	3.4E-03
INFNT	1.4E-03	1.4E-03	0.0E+00	1.4E-03

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 7 1 1 THRU 98 93024

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	3.8E-08	1.7E-06
TEEN	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	3.8E-08	1.7E-06
CHILD	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	3.8E-08	1.7E-06
INFNT	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	3.8E-08	1.7E-06

GROUND PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 1628. METERS WINDS TOWARD ESE

ADULT	9.6E-04	9.6E-04	0.0E+00	9.6E-04	9.6E-04	9.6E-04	9.6E-04	0.0E+00
TEEN	1.1E-03	1.1E-03	0.0E+00	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00
CHILD	1.7E-03	1.7E-03	0.0E+00	1.7E-03	1.7E-03	1.7E-03	1.7E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

WATER PATHWAY, DIST GP= 1, 2434. METERS WINDS TOWARD ESE

ADULT	7.4E-05	7.4E-05	0.0E+00	7.4E-05	7.4E-05	7.4E-05	7.4E-05	0.0E+00
TEEN	4.4E-05	4.4E-05	0.0E+00	4.4E-05	4.4E-05	4.4E-05	4.4E-05	0.0E+00
CHILD	5.3E-05	5.3E-05	0.0E+00	5.3E-05	5.3E-05	5.3E-05	5.3E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

ADULT	8.4E-05	8.4E-05	0.0E+00	8.4E-05	8.4E-05	8.4E-05	8.4E-05	0.0E+00
TEEN	1.1E-04	1.1E-04	0.0E+00	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
CHILD	1.7E-04	1.7E-04	0.0E+00	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
INFNT	2.6E-04	2.6E-04	0.0E+00	2.6E-04	2.6E-04	2.6E-04	2.6E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

ADULT	1.7E-04	1.7E-04	0.0E+00	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
TEEN	2.2E-04	2.2E-04	0.0E+00	2.2E-04	2.2E-04	2.2E-04	2.2E-04	0.0E+00
CHILD	3.5E-04	3.5E-04	0.0E+00	3.5E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00
INFNT	5.4E-04	5.4E-04	0.0E+00	5.4E-04	5.4E-04	5.4E-04	5.4E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

ADULT	5.3E-04	5.3E-04	0.0E+00	5.3E-04	5.3E-04	5.3E-04	5.3E-04	0.0E+00
TEEN	5.3E-04	5.3E-04	0.0E+00	5.3E-04	5.3E-04	5.3E-04	5.3E-04	0.0E+00
CHILD	4.7E-04	4.7E-04	0.0E+00	4.7E-04	4.7E-04	4.7E-04	4.7E-04	0.0E+00
INFNT	2.7E-04	2.7E-04	0.0E+00	2.7E-04	2.7E-04	2.7E-04	2.7E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	1.8E-03	1.8E-03	0.0E+00	1.8E-03	1.8E-03	1.8E-03	1.8E-03	0.0E+00
TEEN	2.0E-03	2.0E-03	0.0E+00	2.0E-03	2.0E-03	2.0E-03	2.0E-03	0.0E+00
CHILD	2.8E-03	2.8E-03	0.0E+00	2.8E-03	2.8E-03	2.8E-03	2.8E-03	0.0E+00
INFNT	1.1E-03	1.1E-03	0.0E+00	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00

TOTALS

ADULT	1.8E-03	1.8E-03	1.4E-08	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.7E-06
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	TEEN	CHILD	INFNT
2.0E-03	2.0E-03	2.8E-03	1.1E-03
2.0E-03	2.8E-03	1.1E-03	
1.4E-08	1.4E-08	1.4E-08	
2.0E-03	2.8E-03	1.1E-03	
2.0E-03	2.8E-03	1.1E-03	
2.0E-03	2.8E-03	1.1E-03	
2.0E-03	2.8E-03	1.1E-03	
1.7E-06	1.7E-06	1.7E-06	

# THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET PATHWAY, DIST GP= 1, 914. METERS WINDS TOWARD SE

ADULT	2.6E-03	2.6E-03	0.0E+00	2.6E-03	2.6E-03	2.6E-03	2.6E-03	0.0E+00
TEEN	3.0E-03	3.0E-03	0.0E+00	3.0E-03	3.0E-03	3.0E-03	3.0E-03	0.0E+00
CHILD	4.6E-03	4.6E-03	0.0E+00	4.6E-03	4.6E-03	4.6E-03	4.6E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 4354. METERS WINDS TOWARD SE

ADULT	3.6E-05	3.6E-05	0.0E+00	3.6E-05	3.6E-05	3.6E-05	3.6E-05	0.0E+00
TEEN	2.1E-05	2.1E-05	0.0E+00	2.1E-05	2.1E-05	2.1E-05	2.1E-05	0.0E+00
CHILD	2.6E-05	2.6E-05	0.0E+00	2.6E-05	2.6E-05	2.6E-05	2.6E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SE

ADULT	9.2E-05	9.2E-05	0.0E+00	9.2E-05	9.2E-05	9.2E-05	9.2E-05	0.0E+00
TEEN	1.2E-04	1.2E-04	0.0E+00	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
CHILD	1.9E-04	1.9E-04	0.0E+00	1.9E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
INFNT	2.9E-04	2.9E-04	0.0E+00	2.9E-04	2.9E-04	2.9E-04	2.9E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SE

ADULT	1.9E-04	1.9E-04	0.0E+00	1.9E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
TEEN	2.4E-04	2.4E-04	0.0E+00	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
CHILD	3.8E-04	3.8E-04	0.0E+00	3.8E-04	3.8E-04	3.8E-04	3.8E-04	0.0E+00
INFNT	5.9E-04	5.9E-04	0.0E+00	5.9E-04	5.9E-04	5.9E-04	5.9E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1136. METERS WINDS TOWARD SE

ADULT	1.0E-03	1.0E-03	0.0E+00	1.0E-03	1.0E-03	1.0E-03	1.0E-03	0.0E+00
TEEN	1.0E-03	1.0E-03	0.0E+00	1.0E-03	1.0E-03	1.0E-03	1.0E-03	0.0E+00
CHILD	9.1E-04	9.1E-04	0.0E+00	9.1E-04	9.1E-04	9.1E-04	9.1E-04	0.0E+00
INFNT	5.2E-04	5.2E-04	0.0E+00	5.2E-04	5.2E-04	5.2E-04	5.2E-04	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	3.9E-03	3.9E-03	0.0E+00	3.9E-03	3.9E-03	3.9E-03	3.9E-03	0.0E+00
TEEN	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00
CHILD	6.1E-03	6.1E-03	0.0E+00	6.1E-03	6.1E-03	6.1E-03	6.1E-03	0.0E+00
INFNT	1.4E-03	1.4E-03	0.0E+00	1.4E-03	1.4E-03	1.4E-03	1.4E-03	0.0E+00

## TOTALS

ADULT	3.9E-03	3.9E-03	0.0E+00	3.9E-03	3.9E-03	3.9E-03	3.9E-03	0.0E+00
TEEN	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00



	CHILD	6.1E-03	6.1E-03	0.0E+00	6.1E-03	6.1E-03	6.1E-03	6.1E-03	0.0E+00
INFNT	1.4E-03	1.4E-03	0.0E+00	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	0.0E+00

# THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 7 1 1 THRU 98 93024

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME	PATHWAY,	DIST	GP=	1,	1507.	METERS	WINDS	TOWARD	SSE
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND	PATHWAY,	DIST	GP=	1,	1507.	METERS	WINDS	TOWARD	SSE
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

VEGET	PATHWAY,	DIST	GP=	1,	1093.	METERS	WINDS	TOWARD	SSE
ADULT	2.7E-03	2.7E-03	0.0E+00	2.7E-03	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00
TEEN	3.1E-03	3.1E-03	0.0E+00	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	0.0E+00
CHILD	4.9E-03	4.9E-03	0.0E+00	4.9E-03	4.9E-03	4.9E-03	4.9E-03	4.9E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT	PATHWAY,	DIST	GP=	1,	1093.	METERS	WINDS	TOWARD	SSE
ADULT	3.9E-04	3.9E-04	0.0E+00	3.9E-04	3.9E-04	3.9E-04	3.9E-04	3.9E-04	0.0E+00
TEEN	2.4E-04	2.4E-04	0.0E+00	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
CHILD	2.8E-04	2.8E-04	0.0E+00	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW	PATHWAY,	DIST	GP=	1,	4091.	METERS	WINDS	TOWARD	SSE
ADULT	1.3E-04	1.3E-04	0.0E+00	1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04	0.0E+00
TEEN	1.7E-04	1.7E-04	0.0E+00	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
CHILD	2.7E-04	2.7E-04	0.0E+00	2.7E-04	2.7E-04	2.7E-04	2.7E-04	2.7E-04	0.0E+00
INFNT	4.1E-04	4.1E-04	0.0E+00	4.1E-04	4.1E-04	4.1E-04	4.1E-04	4.1E-04	0.0E+00

GOAT	PATHWAY,	DIST	GP=	1,	4091.	METERS	WINDS	TOWARD	SSE
ADULT	2.7E-04	2.7E-04	0.0E+00	2.7E-04	2.7E-04	2.7E-04	2.7E-04	2.7E-04	0.0E+00
TEEN	3.5E-04	3.5E-04	0.0E+00	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00
CHILD	5.5E-04	5.5E-04	0.0E+00	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	0.0E+00
INFNT	8.4E-04	8.4E-04	0.0E+00	8.4E-04	8.4E-04	8.4E-04	8.4E-04	8.4E-04	0.0E+00

INHAL	PATHWAY,	DIST	GP=	1,	1507.	METERS	WINDS	TOWARD	SSE
ADULT	9.2E-04	9.2E-04	0.0E+00	9.2E-04	9.2E-04	9.2E-04	9.2E-04	9.2E-04	0.0E+00
TEEN	9.2E-04	9.2E-04	0.0E+00	9.2E-04	9.2E-04	9.2E-04	9.2E-04	9.2E-04	0.0E+00
CHILD	8.2E-04	8.2E-04	0.0E+00	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	0.0E+00
INFNT	4.7E-04	4.7E-04	0.0E+00	4.7E-04	4.7E-04	4.7E-04	4.7E-04	4.7E-04	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00
TEEN	4.8E-03	4.8E-03	0.0E+00	4.8E-03	4.8E-03	4.8E-03	4.8E-03	4.8E-03	0.0E+00
CHILD	6.8E-03	6.8E-03	0.0E+00	6.8E-03	6.8E-03	6.8E-03	6.8E-03	6.8E-03	0.0E+00
INFNT	1.7E-03	1.7E-03	0.0E+00	1.7E-03	1.7E-03	1.7E-03	1.7E-03	1.7E-03	0.0E+00

## TOTALS

ADULT	4.4E-03	4.4E-03	0.0E+00	4.4E-03	4.4E-03	4.4E-03	4.4E-03	4.4E-03	0.0E+00
TEEN	4.8E-03	4.8E-03	0.0E+00	4.8E-03	4.8E-03	4.8E-03	4.8E-03	4.8E-03	0.0E+00
CHILD	6.8E-03	6.8E-03	0.0E+00	6.8E-03	6.8E-03	6.8E-03	6.8E-03	6.8E-03	0.0E+00





INFNT 1.7E-03 1.7E-03 0.0E+00 1.7E-03 1.7E-03 1.7E-03 1.7E-03 0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 3.0E-06 1.4E-04  
TEEN 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 3.0E-06 1.4E-04  
CHILD 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 3.0E-06 1.4E-04  
INFNT 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 1.1E-06 3.0E-06 1.4E-04

GROUND PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 863. METERS WINDS TOWARD S  
ADULT 4.6E-03 4.6E-03 0.0E+00 4.6E-03 4.6E-03 4.6E-03 4.6E-03 0.0E+00  
TEEN 5.3E-03 5.3E-03 0.0E+00 5.3E-03 5.3E-03 5.3E-03 5.3E-03 0.0E+00  
CHILD 8.2E-03 8.2E-03 0.0E+00 8.2E-03 8.2E-03 8.2E-03 8.2E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 6115. METERS WINDS TOWARD S  
ADULT 3.5E-05 3.5E-05 0.0E+00 3.5E-05 3.5E-05 3.5E-05 3.5E-05 0.0E+00  
TEEN 2.1E-05 2.1E-05 0.0E+00 2.1E-05 2.1E-05 2.1E-05 2.1E-05 0.0E+00  
CHILD 2.5E-05 2.5E-05 0.0E+00 2.5E-05 2.5E-05 2.5E-05 2.5E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S  
ADULT 1.5E-04 1.5E-04 0.0E+00 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
TEEN 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
CHILD 3.1E-04 3.1E-04 0.0E+00 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00  
INFNT 4.6E-04 4.6E-04 0.0E+00 4.6E-04 4.6E-04 4.6E-04 4.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S  
ADULT 3.0E-04 3.0E-04 0.0E+00 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
TEEN 3.9E-04 3.9E-04 0.0E+00 3.9E-04 3.9E-04 3.9E-04 3.9E-04 0.0E+00  
CHILD 6.2E-04 6.2E-04 0.0E+00 6.2E-04 6.2E-04 6.2E-04 6.2E-04 0.0E+00  
INFNT 9.5E-04 9.5E-04 0.0E+00 9.5E-04 9.5E-04 9.5E-04 9.5E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S  
ADULT 2.0E-03 2.0E-03 0.0E+00 2.0E-03 2.0E-03 2.0E-03 2.0E-03 0.0E+00  
TEEN 2.0E-03 2.0E-03 0.0E+00 2.0E-03 2.0E-03 2.0E-03 2.0E-03 0.0E+00  
CHILD 1.7E-03 1.7E-03 0.0E+00 1.7E-03 1.7E-03 1.7E-03 1.7E-03 0.0E+00  
INFNT 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 7.1E-03 7.1E-03 0.0E+00 7.1E-03 7.1E-03 7.1E-03 7.1E-03 0.0E+00  
TEEN 7.9E-03 7.9E-03 0.0E+00 7.9E-03 7.9E-03 7.9E-03 7.9E-03 0.0E+00  
CHILD 1.1E-02 1.1E-02 0.0E+00 1.1E-02 1.1E-02 1.1E-02 1.1E-02 0.0E+00  
INFNT 2.4E-03 2.4E-03 0.0E+00 2.4E-03 2.4E-03 2.4E-03 2.4E-03 0.0E+00

TOTALS

ADULT 7.1E-03 7.1E-03 1.1E-06 7.1E-03 7.1E-03 7.1E-03 7.1E-03 1.4E-04  
TEEN 7.9E-03 7.9E-03 1.1E-06 7.9E-03 7.9E-03 7.9E-03 7.9E-03 1.4E-04  
CHILD 1.1E-02 1.1E-02 1.1E-06 1.1E-02 1.1E-02 1.1E-02 1.1E-02 1.4E-04  
INFNT 2.4E-03 2.4E-03 1.1E-06 2.4E-03 2.4E-03 2.4E-03 2.4E-03 1.4E-04



## THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW

ADULT 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 3.7E-06 1.7E-04

TEEN 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 3.7E-06 1.7E-04

CHILD 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 3.7E-06 1.7E-04

INFNT 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 1.4E-06 3.7E-06 1.7E-04

GROUND PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW

ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 770. METERS WINDS TOWARD SSW

ADULT 6.8E-03 6.8E-03 0.0E+00 6.8E-03 6.8E-03 6.8E-03 6.8E-03 0.0E+00

TEEN 7.8E-03 7.8E-03 0.0E+00 7.8E-03 7.8E-03 7.8E-03 7.8E-03 0.0E+00

CHILD 1.2E-02 1.2E-02 0.0E+00 1.2E-02 1.2E-02 1.2E-02 1.2E-02 0.0E+00

INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SSW

ADULT 3.2E-05 3.2E-05 0.0E+00 3.2E-05 3.2E-05 3.2E-05 3.2E-05 0.0E+00

TEEN 1.9E-05 1.9E-05 0.0E+00 1.9E-05 1.9E-05 1.9E-05 1.9E-05 0.0E+00

CHILD 2.3E-05 2.3E-05 0.0E+00 2.3E-05 2.3E-05 2.3E-05 2.3E-05 0.0E+00

INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW. PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW

ADULT 2.0E-04 2.0E-04 0.0E+00 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00

TEEN 2.6E-04 2.6E-04 0.0E+00 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00

CHILD 4.0E-04 4.0E-04 0.0E+00 4.0E-04 4.0E-04 4.0E-04 4.0E-04 0.0E+00

INFNT 6.1E-04 6.1E-04 0.0E+00 6.1E-04 6.1E-04 6.1E-04 6.1E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW

ADULT 4.0E-04 4.0E-04 0.0E+00 4.0E-04 4.0E-04 4.0E-04 4.0E-04 0.0E+00

TEEN 5.2E-04 5.2E-04 0.0E+00 5.2E-04 5.2E-04 5.2E-04 5.2E-04 0.0E+00

CHILD 8.2E-04 8.2E-04 0.0E+00 8.2E-04 8.2E-04 8.2E-04 8.2E-04 0.0E+00

INFNT 1.3E-03 1.3E-03 0.0E+00 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW

ADULT 2.8E-03 2.8E-03 0.0E+00 2.8E-03 2.8E-03 2.8E-03 2.8E-03 0.0E+00

TEEN 2.8E-03 2.8E-03 0.0E+00 2.8E-03 2.8E-03 2.8E-03 2.8E-03 0.0E+00

CHILD 2.5E-03 2.5E-03 0.0E+00 2.5E-03 2.5E-03 2.5E-03 2.5E-03 0.0E+00

INFNT 1.4E-03 1.4E-03 0.0E+00 1.4E-03 1.4E-03 1.4E-03 1.4E-03 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 1.0E-02 1.0E-02 0.0E+00 1.0E-02 1.0E-02 1.0E-02 1.0E-02 0.0E+00

TEEN 1.1E-02 1.1E-02 0.0E+00 1.1E-02 1.1E-02 1.1E-02 1.1E-02 0.0E+00

CHILD 1.6E-02 1.6E-02 0.0E+00 1.6E-02 1.6E-02 1.6E-02 1.6E-02 0.0E+00

INFNT 3.3E-03 3.3E-03 0.0E+00 3.3E-03 3.3E-03 3.3E-03 3.3E-03 0.0E+00

## TOTALS

ADULT 1.0E-02 1.0E-02 1.4E-06 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.7E-04

TEEN 1.1E-02 1.1E-02 1.4E-06 1.1E-02 1.1E-02 1.1E-02 1.1E-02 1.7E-04

CHILD 1.6E-02 1.6E-02 1.4E-06 1.6E-02 1.6E-02 1.6E-02 1.6E-02 1.7E-04

INFNT 3.3E-03 3.3E-03 1.4E-06 3.3E-03 3.3E-03 3.3E-03 3.3E-03 1.7E-04

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 1.9E-07 8.6E-06  
TEEN 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 1.9E-07 8.6E-06  
CHILD 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 1.9E-07 8.6E-06  
INFNT 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 7.2E-08 1.9E-07 8.6E-06

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
TEEN 2.7E-04 2.7E-04 0.0E+00 2.7E-04 2.7E-04 2.7E-04 2.7E-04 0.0E+00  
CHILD 4.2E-04 4.2E-04 0.0E+00 4.2E-04 4.2E-04 4.2E-04 4.2E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 3.4E-05 3.4E-05 0.0E+00 3.4E-05 3.4E-05 3.4E-05 3.4E-05 0.0E+00  
TEEN 2.0E-05 2.0E-05 0.0E+00 2.0E-05 2.0E-05 2.0E-05 2.0E-05 0.0E+00  
CHILD 2.5E-05 2.5E-05 0.0E+00 2.5E-05 2.5E-05 2.5E-05 2.5E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

W PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 8.0E-05 8.0E-05 0.0E+00 8.0E-05 8.0E-05 8.0E-05 8.0E-05 0.0E+00  
TEEN 1.0E-04 1.0E-04 0.0E+00 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
CHILD 1.6E-04 1.6E-04 0.0E+00 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
INFNT 2.5E-04 2.5E-04 0.0E+00 2.5E-04 2.5E-04 2.5E-04 2.5E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 1.6E-04 1.6E-04 0.0E+00 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
TEEN 2.1E-04 2.1E-04 0.0E+00 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00  
CHILD 3.4E-04 3.4E-04 0.0E+00 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
INFNT 5.1E-04 5.1E-04 0.0E+00 5.1E-04 5.1E-04 5.1E-04 5.1E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
TEEN 1.3E-04 1.3E-04 0.0E+00 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00  
CHILD 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
INFNT 6.7E-05 6.7E-05 0.0E+00 6.7E-05 6.7E-05 6.7E-05 6.7E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 6.5E-04 6.5E-04 0.0E+00 6.5E-04 6.5E-04 6.5E-04 6.5E-04 0.0E+00  
TEEN 7.4E-04 7.4E-04 0.0E+00 7.4E-04 7.4E-04 7.4E-04 7.4E-04 0.0E+00  
CHILD 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
INFNT 8.3E-04 8.3E-04 0.0E+00 8.3E-04 8.3E-04 8.3E-04 8.3E-04 0.0E+00

TOTALS

ADULT 6.5E-04 6.5E-04 7.2E-08 6.5E-04 6.5E-04 6.5E-04 6.5E-04 8.6E-06  
TEEN 7.4E-04 7.4E-04 7.2E-08 7.4E-04 7.4E-04 7.4E-04 7.4E-04 8.6E-06  
CHILD 1.1E-03 1.1E-03 7.2E-08 1.1E-03 1.1E-03 1.1E-03 1.1E-03 8.6E-06  
INFNT 8.3E-04 8.3E-04 7.2E-08 8.3E-04 8.3E-04 8.3E-04 8.3E-04 8.6E-06

THIS IS LAST ACCUMULATION



INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 3.3E-08 1.5E-06  
TEEN 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 3.3E-08 1.5E-06  
CHILD 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 3.3E-08 1.5E-06  
INFNT 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 1.2E-08 3.3E-08 1.5E-06

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 4.1E-04 4.1E-04 0.0E+00 4.1E-04 4.1E-04 4.1E-04 4.1E-04 0.0E+00  
TEEN 4.7E-04 4.7E-04 0.0E+00 4.7E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
CHILD 7.2E-04 7.2E-04 0.0E+00 7.2E-04 7.2E-04 7.2E-04 7.2E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 5.9E-05 5.9E-05 0.0E+00 5.9E-05 5.9E-05 5.9E-05 5.9E-05 0.0E+00  
TEEN 3.5E-05 3.5E-05 0.0E+00 3.5E-05 3.5E-05 3.5E-05 3.5E-05 0.0E+00  
CHILD 4.2E-05 4.2E-05 0.0E+00 4.2E-05 4.2E-05 4.2E-05 4.2E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

DEER PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 1.4E-04 1.4E-04 0.0E+00 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
TEEN 1.8E-04 1.8E-04 0.0E+00 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
CHILD 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
INFNT 4.3E-04 4.3E-04 0.0E+00 4.3E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
TEEN 3.7E-04 3.7E-04 0.0E+00 3.7E-04 3.7E-04 3.7E-04 3.7E-04 0.0E+00  
CHILD 5.7E-04 5.7E-04 0.0E+00 5.7E-04 5.7E-04 5.7E-04 5.7E-04 0.0E+00  
INFNT 8.8E-04 8.8E-04 0.0E+00 8.8E-04 8.8E-04 8.8E-04 8.8E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
ADULT 2.3E-04 2.3E-04 0.0E+00 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
TEEN 2.3E-04 2.3E-04 0.0E+00 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
CHILD 2.0E-04 2.0E-04 0.0E+00 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00  
INFNT 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00

SUBTOTALS (NO PLUME)  
ADULT 1.1E-03 1.1E-03 0.0E+00 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
TEEN 1.3E-03 1.3E-03 0.0E+00 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00  
CHILD 1.8E-03 1.8E-03 0.0E+00 1.8E-03 1.8E-03 1.8E-03 1.8E-03 0.0E+00  
INFNT 1.4E-03 1.4E-03 0.0E+00 1.4E-03 1.4E-03 1.4E-03 1.4E-03 0.0E+00

TOTALS  
ADULT 1.1E-03 1.1E-03 1.2E-08 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.5E-06  
TEEN 1.3E-03 1.3E-03 1.2E-08 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.5E-06  
CHILD 1.8E-03 1.8E-03 1.2E-08 1.8E-03 1.8E-03 1.8E-03 1.8E-03 1.5E-06  
INFNT 1.4E-03 1.4E-03 1.2E-08 1.4E-03 1.4E-03 1.4E-03 1.4E-03 1.5E-06

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT





FOR DATES 98 7 1 1 THRU 98 93024  
T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 4.3E-07 2.0E-05  
TEEN 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 4.3E-07 2.0E-05  
CHILD 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 4.3E-07 2.0E-05  
INFNT 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 1.6E-07 4.3E-07 2.0E-05

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 6.9E-04 6.9E-04 0.0E+00 6.9E-04 6.9E-04 6.9E-04 6.9E-04 0.0E+00  
TEEN 7.9E-04 7.9E-04 0.0E+00 7.9E-04 7.9E-04 7.9E-04 7.9E-04 0.0E+00  
CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 9.9E-05 9.9E-05 0.0E+00 9.9E-05 9.9E-05 9.9E-05 9.9E-05 0.0E+00  
TEEN 5.9E-05 5.9E-05 0.0E+00 5.9E-05 5.9E-05 5.9E-05 5.9E-05 0.0E+00  
CHILD 7.1E-05 7.1E-05 0.0E+00 7.1E-05 7.1E-05 7.1E-05 7.1E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.3E-04 2.3E-04 0.0E+00 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
TEEN 3.0E-04 3.0E-04 0.0E+00 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
CHILD 4.8E-04 4.8E-04 0.0E+00 4.8E-04 4.8E-04 4.8E-04 4.8E-04 0.0E+00  
INFNT 7.3E-04 7.3E-04 0.0E+00 7.3E-04 7.3E-04 7.3E-04 7.3E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 4.7E-04 4.7E-04 0.0E+00 4.7E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
TEEN 6.2E-04 6.2E-04 0.0E+00 6.2E-04 6.2E-04 6.2E-04 6.2E-04 0.0E+00  
CHILD 9.7E-04 9.7E-04 0.0E+00 9.7E-04 9.7E-04 9.7E-04 9.7E-04 0.0E+00  
INFNT 1.5E-03 1.5E-03 0.0E+00 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 3.8E-04 3.8E-04 0.0E+00 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
TEEN 3.8E-04 3.8E-04 0.0E+00 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
CHILD 3.4E-04 3.4E-04 0.0E+00 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
INFNT 2.0E-04 2.0E-04 0.0E+00 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00

#### SUBTOTALS (NO PLUME)

ADULT 1.9E-03 1.9E-03 0.0E+00 1.9E-03 1.9E-03 1.9E-03 1.9E-03 0.0E+00  
TEEN 2.2E-03 2.2E-03 0.0E+00 2.2E-03 2.2E-03 2.2E-03 2.2E-03 0.0E+00  
CHILD 3.1E-03 3.1E-03 0.0E+00 3.1E-03 3.1E-03 3.1E-03 3.1E-03 0.0E+00  
INFNT 2.4E-03 2.4E-03 0.0E+00 2.4E-03 2.4E-03 2.4E-03 2.4E-03 0.0E+00

#### TOTALS

ADULT 1.9E-03 1.9E-03 1.6E-07 1.9E-03 1.9E-03 1.9E-03 1.9E-03 2.0E-05  
TEEN 2.2E-03 2.2E-03 1.6E-07 2.2E-03 2.2E-03 2.2E-03 2.2E-03 2.0E-05  
CHILD 3.1E-03 3.1E-03 1.6E-07 3.1E-03 3.1E-03 3.1E-03 3.1E-03 2.0E-05  
INFNT 2.4E-03 2.4E-03 1.6E-07 2.4E-03 2.4E-03 2.4E-03 2.4E-03 2.0E-05

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 98 7 1 1 THRU 98 93024



T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 6.8E-04 6.8E-04 0.0E+00 6.8E-04 6.8E-04 6.8E-04 6.8E-04 0.0E+00  
 TEEN 7.8E-04 7.8E-04 0.0E+00 7.8E-04 7.8E-04 7.8E-04 7.8E-04 0.0E+00  
 CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 9.8E-05 9.8E-05 0.0E+00 9.8E-05 9.8E-05 9.8E-05 9.8E-05 0.0E+00  
 TEEN 5.8E-05 5.8E-05 0.0E+00 5.8E-05 5.8E-05 5.8E-05 5.8E-05 0.0E+00  
 CHILD 7.0E-05 7.0E-05 0.0E+00 7.0E-05 7.0E-05 7.0E-05 7.0E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 2.3E-04 2.3E-04 0.0E+00 2.3E-04 2.3E-04 2.3E-04 2.3E-04 0.0E+00  
 TEEN 3.0E-04 3.0E-04 0.0E+00 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
 CHILD 4.7E-04 4.7E-04 0.0E+00 4.7E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
 INFNT 7.2E-04 7.2E-04 0.0E+00 7.2E-04 7.2E-04 7.2E-04 7.2E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 4.7E-04 4.7E-04 0.0E+00 4.7E-04 4.7E-04 4.7E-04 4.7E-04 0.0E+00  
 TEEN 6.1E-04 6.1E-04 0.0E+00 6.1E-04 6.1E-04 6.1E-04 6.1E-04 0.0E+00  
 CHILD 9.6E-04 9.6E-04 0.0E+00 9.6E-04 9.6E-04 9.6E-04 9.6E-04 0.0E+00  
 INFNT 1.5E-03 1.5E-03 0.0E+00 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 3.8E-04 3.8E-04 0.0E+00 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
 TEEN 3.8E-04 3.8E-04 0.0E+00 3.8E-04 3.8E-04 3.8E-04 3.8E-04 0.0E+00  
 CHILD 3.4E-04 3.4E-04 0.0E+00 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
 INFNT 1.9E-04 1.9E-04 0.0E+00 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 1.8E-03 1.8E-03 0.0E+00 1.8E-03 1.8E-03 1.8E-03 1.8E-03 0.0E+00  
 TEEN 2.1E-03 2.1E-03 0.0E+00 2.1E-03 2.1E-03 2.1E-03 2.1E-03 0.0E+00  
 CHILD 3.0E-03 3.0E-03 0.0E+00 3.0E-03 3.0E-03 3.0E-03 3.0E-03 0.0E+00  
 INFNT 2.4E-03 2.4E-03 0.0E+00 2.4E-03 2.4E-03 2.4E-03 2.4E-03 0.0E+00

TOTALS

ADULT 1.8E-03 1.8E-03 0.0E+00 1.8E-03 1.8E-03 1.8E-03 1.8E-03 0.0E+00  
 TEEN 2.1E-03 2.1E-03 0.0E+00 2.1E-03 2.1E-03 2.1E-03 2.1E-03 0.0E+00  
 CHILD 3.0E-03 3.0E-03 0.0E+00 3.0E-03 3.0E-03 3.0E-03 3.0E-03 0.0E+00  
 INFNT 2.4E-03 2.4E-03 0.0E+00 2.4E-03 2.4E-03 2.4E-03 2.4E-03 0.0E+00

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN



PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 3.8E-09 1.7E-07  
 TEEN 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 3.8E-09 1.7E-07  
 CHILD 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 3.8E-09 1.7E-07  
 INFNT 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 1.4E-09 3.8E-09 1.7E-07

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 8.3E-04 8.3E-04 0.0E+00 8.3E-04 8.3E-04 8.3E-04 8.3E-04 0.0E+00  
 TEEN 9.5E-04 9.5E-04 0.0E+00 9.5E-04 9.5E-04 9.5E-04 9.5E-04 0.0E+00  
 CHILD 1.5E-03 1.5E-03 0.0E+00 1.5E-03 1.5E-03 1.5E-03 1.5E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.2E-04 1.2E-04 0.0E+00 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 TEEN 7.1E-05 7.1E-05 0.0E+00 7.1E-05 7.1E-05 7.1E-05 7.1E-05 0.0E+00  
 CHILD 8.6E-05 8.6E-05 0.0E+00 8.6E-05 8.6E-05 8.6E-05 8.6E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 2.8E-04 2.8E-04 0.0E+00 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
 TEEN 3.7E-04 3.7E-04 0.0E+00 3.7E-04 3.7E-04 3.7E-04 3.7E-04 0.0E+00  
 CHILD 5.8E-04 5.8E-04 0.0E+00 5.8E-04 5.8E-04 5.8E-04 5.8E-04 0.0E+00  
 INFNT 8.8E-04 8.8E-04 0.0E+00 8.8E-04 8.8E-04 8.8E-04 8.8E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 5.7E-04 5.7E-04 0.0E+00 5.7E-04 5.7E-04 5.7E-04 5.7E-04 0.0E+00  
 TEEN 7.5E-04 7.5E-04 0.0E+00 7.5E-04 7.5E-04 7.5E-04 7.5E-04 0.0E+00  
 CHILD 1.2E-03 1.2E-03 0.0E+00 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 INFNT 1.8E-03 1.8E-03 0.0E+00 1.8E-03 1.8E-03 1.8E-03 1.8E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 4.6E-04 4.6E-04 0.0E+00 4.6E-04 4.6E-04 4.6E-04 4.6E-04 0.0E+00  
 TEEN 4.6E-04 4.6E-04 0.0E+00 4.6E-04 4.6E-04 4.6E-04 4.6E-04 0.0E+00  
 CHILD 4.1E-04 4.1E-04 0.0E+00 4.1E-04 4.1E-04 4.1E-04 4.1E-04 0.0E+00  
 INFNT 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 2.3E-03 2.3E-03 0.0E+00 2.3E-03 2.3E-03 2.3E-03 2.3E-03 0.0E+00  
 TEEN 2.6E-03 2.6E-03 0.0E+00 2.6E-03 2.6E-03 2.6E-03 2.6E-03 0.0E+00  
 CHILD 3.7E-03 3.7E-03 0.0E+00 3.7E-03 3.7E-03 3.7E-03 3.7E-03 0.0E+00  
 INFNT 2.9E-03 2.9E-03 0.0E+00 2.9E-03 2.9E-03 2.9E-03 2.9E-03 0.0E+00

TOTALS  
 ADULT 2.3E-03 2.3E-03 1.4E-09 2.3E-03 2.3E-03 2.3E-03 2.3E-03 1.7E-07  
 TEEN 2.6E-03 2.6E-03 1.4E-09 2.6E-03 2.6E-03 2.6E-03 2.6E-03 1.7E-07  
 CHILD 3.7E-03 3.7E-03 1.4E-09 3.7E-03 3.7E-03 3.7E-03 3.7E-03 1.7E-07  
 INFNT 2.9E-03 2.9E-03 1.4E-09 2.9E-03 2.9E-03 2.9E-03 2.9E-03 1.7E-07

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
 FOR DATES 98 7 1 1 THRU 98 93024

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN



PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 4.8E-07 2.2E-05  
 TEEN 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 4.8E-07 2.2E-05  
 CHILD 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 4.8E-07 2.2E-05  
 INFNT 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 4.8E-07 2.2E-05

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 7.2E-04 7.2E-04 0.0E+00 7.2E-04 7.2E-04 7.2E-04 7.2E-04 0.0E+00  
 TEEN 8.3E-04 8.3E-04 0.0E+00 8.3E-04 8.3E-04 8.3E-04 8.3E-04 0.0E+00  
 CHILD 1.3E-03 1.3E-03 0.0E+00 1.3E-03 1.3E-03 1.3E-03 1.3E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 1.0E-04 1.0E-04 0.0E+00 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
 TEEN 6.2E-05 6.2E-05 0.0E+00 6.2E-05 6.2E-05 6.2E-05 6.2E-05 0.0E+00  
 CHILD 7.5E-05 7.5E-05 0.0E+00 7.5E-05 7.5E-05 7.5E-05 7.5E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 2.4E-04 2.4E-04 0.0E+00 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 TEEN 3.2E-04 3.2E-04 0.0E+00 3.2E-04 3.2E-04 3.2E-04 3.2E-04 0.0E+00  
 CHILD 5.0E-04 5.0E-04 0.0E+00 5.0E-04 5.0E-04 5.0E-04 5.0E-04 0.0E+00  
 INFNT 7.6E-04 7.6E-04 0.0E+00 7.6E-04 7.6E-04 7.6E-04 7.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 5.0E-04 5.0E-04 0.0E+00 5.0E-04 5.0E-04 5.0E-04 5.0E-04 0.0E+00  
 TEEN 6.5E-04 6.5E-04 0.0E+00 6.5E-04 6.5E-04 6.5E-04 6.5E-04 0.0E+00  
 CHILD 1.0E-03 1.0E-03 0.0E+00 1.0E-03 1.0E-03 1.0E-03 1.0E-03 0.0E+00  
 INFNT 1.6E-03 1.6E-03 0.0E+00 1.6E-03 1.6E-03 1.6E-03 1.6E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 4.0E-04 4.0E-04 0.0E+00 4.0E-04 4.0E-04 4.0E-04 4.0E-04 0.0E+00  
 TEEN 4.0E-04 4.0E-04 0.0E+00 4.0E-04 4.0E-04 4.0E-04 4.0E-04 0.0E+00  
 CHILD 3.6E-04 3.6E-04 0.0E+00 3.6E-04 3.6E-04 3.6E-04 3.6E-04 0.0E+00  
 INFNT 2.1E-04 2.1E-04 0.0E+00 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 2.0E-03 2.0E-03 0.0E+00 2.0E-03 2.0E-03 2.0E-03 2.0E-03 0.0E+00  
 TEEN 2.3E-03 2.3E-03 0.0E+00 2.3E-03 2.3E-03 2.3E-03 2.3E-03 0.0E+00  
 CHILD 3.2E-03 3.2E-03 0.0E+00 3.2E-03 3.2E-03 3.2E-03 3.2E-03 0.0E+00  
 INFNT 2.5E-03 2.5E-03 0.0E+00 2.5E-03 2.5E-03 2.5E-03 2.5E-03 0.0E+00

TOTALS  
 ADULT 2.0E-03 2.0E-03 1.8E-07 2.0E-03 2.0E-03 2.0E-03 2.0E-03 2.2E-05  
 TEEN 2.3E-03 2.3E-03 1.8E-07 2.3E-03 2.3E-03 2.3E-03 2.3E-03 2.2E-05  
 CHILD 3.2E-03 3.2E-03 1.8E-07 3.2E-03 3.2E-03 3.2E-03 3.2E-03 2.2E-05  
 INFNT 2.5E-03 2.5E-03 1.8E-07 2.5E-03 2.5E-03 2.5E-03 2.5E-03 2.2E-05





## 1998 Annual Radioactive Effluent Release Report

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### Appendix 5: Summary of Maximum Individual Doses, Fourth Quarter 1998

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (Toward)	Percent of Applicable limit	Limit (mrem) QTR
Liquid	Total Body	8.23 E-03	Child	Receptor 1	5.5 E-01	1.5 E+00
Liquid	GI-Tract	8.69 E-03	Child	Receptor 1	1.7 E-01	5.0 E+00
Noble Gas	Air dose (Gamma-mrad)	7.28 E-07		651 N	1.5 E-05	5.0 E+00
Noble Gas	Air Dose (Beta-mrad)	8.26 E-05		651 N	8.3 E-04	1.0E+01
Iodines and Particulates	Liver	2.33 E-02	Child	659 N	3.1 E-01	7.5E+00



FOR RECEPTOR NUMBER 1

LAST LIQUID DOSE ACCUMULATIONS (MREM)									
START DATE 9810 1 1		END DATE 98123124							
	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN	
WATER									
ADULT	3.2E-06	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	6.2E-03	0.0E+00	
TEEN	3.0E-06	4.0E-03	4.0E-03	3.9E-03	3.9E-03	3.9E-03	4.3E-03	0.0E+00	
CHILD	8.2E-06	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.9E-03	0.0E+00	
INFANT	9.0E-06	7.5E-03	7.5E-03	7.4E-03	7.4E-03	7.4E-03	7.6E-03	0.0E+00	
SHORE									
ADULT	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.2E-04	
TEEN	5.6E-04	5.6E-04	5.6E-04	5.6E-04	5.6E-04	5.6E-04	5.6E-04	6.6E-04	
CHILD	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.4E-04	
INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
FW SPT FISH									
ADULT	8.0E-05	7.3E-04	6.1E-04	3.8E-04	5.5E-04	3.8E-04	2.4E-03	0.0E+00	
TEEN	7.5E-05	6.4E-04	5.2E-04	2.9E-04	4.5E-04	2.9E-04	1.7E-03	0.0E+00	
CHILD	7.9E-05	5.2E-04	4.8E-04	2.4E-04	3.7E-04	2.4E-04	7.2E-04	0.0E+00	
INFANT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	

LAST LIQUID DOSE ACCUMULATIONS (MREM)									
START DATE 9810 1 1		END DATE 98123124							
	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN	
TOTAL									
ADULT	1.8E-04	6.4E-03	6.3E-03	6.1E-03	6.2E-03	6.1E-03	8.7E-03	1.2E-04	
TEEN	6.4E-04	5.2E-03	5.1E-03	4.8E-03	5.0E-03	4.8E-03	6.6E-03	6.6E-04	
CHILD	2.0E-04	8.2E-03	8.2E-03	7.9E-03	8.0E-03	7.9E-03	8.7E-03	1.4E-04	
INFANT	9.0E-06	7.5E-03	7.5E-03	7.4E-03	7.4E-03	7.4E-03	7.6E-03	0.0E+00	



GA

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

1.5790E-06	1.8270E-07	8.0301E-08	4.5484E-08	3.0655E-08
1.4020E-08	4.7491E-09	2.1626E-09	1.2979E-09	7.3687E-10

\*\*DIRECTION FROM E

1.7206E-06	2.4097E-07	1.0967E-07	6.3009E-08	4.4345E-08
2.2573E-08	8.7454E-09	4.3123E-09	2.7495E-09	1.7152E-09

\*\*DIRECTION FROM ESE

3.2223E-07	3.7282E-08	1.6387E-08	9.2817E-09	6.2556E-09
2.8610E-09	9.6913E-10	4.4131E-10	2.6485E-10	1.5037E-10

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR GAMMA MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

2.0010E-08	9.7423E-10	5.8551E-10	4.1807E-10	3.2510E-10
1.9506E-10	9.7524E-11	5.8514E-11	4.1796E-11	2.9239E-11

\*\*DIRECTION FROM SSE

2.8934E-08	3.3477E-09	1.4714E-09	8.3345E-10	5.6172E-10
2.5690E-10	8.7023E-11	3.9627E-11	2.3782E-11	1.3503E-11

\*\*DIRECTION FROM S

8.3844E-07	9.7009E-08	4.2639E-08	2.4151E-08	1.6277E-08
7.4444E-09	2.5217E-09	1.1483E-09	6.8914E-10	3.9127E-10

\*\*DIRECTION FROM SSW

1.7748E-08	8.6407E-10	5.1930E-10	3.7080E-10	2.8834E-10
1.7300E-10	8.6496E-11	5.1898E-11	3.7070E-11	2.5933E-11

\*\*DIRECTION FROM SW

9.3081E-09	4.5318E-10	2.7236E-10	1.9447E-10	1.5123E-10
9.0733E-11	4.5365E-11	2.7219E-11	1.9442E-11	1.3601E-11

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

3.8994E-07	3.0954E-08	1.2434E-08	6.7476E-09	4.3330E-09
1.8045E-09	5.5460E-10	2.7505E-10	1.9205E-10	1.3129E-10

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR GAMMA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0

12067.0 24135.0 40225.0 56315.0 80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DOSE TYPE

ENTER: [GA]

GAMMA

[BE]

BETA

[RETURN] GO BACK TO PREVIOUS OPTION

BE

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0

DOSE ACCUMULATION FOR BETA

MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

1.7905E-04	2.0717E-05	9.1057E-06	5.1576E-06	3.4761E-06
1.5898E-06	5.3852E-07	2.4522E-07	1.4717E-07	8.3557E-08

\*\*DIRECTION FROM E

1.9511E-04	2.7325E-05	1.2436E-05	7.1449E-06	5.0285E-06
2.5596E-06	9.9168E-07	4.8899E-07	3.1178E-07	1.9450E-07

\*\*DIRECTION FROM ESE

3.6539E-05	4.2276E-06	1.8582E-06	1.0525E-06	7.0935E-07
3.2442E-07	1.0989E-07	5.0042E-08	3.0032E-08	1.7051E-08

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0

DOSE ACCUMULATION FOR BETA

MRAD

FOR RELEASE POINT 1

\*\*DIRECTION FROM SE

2.2691E-06	1.1047E-07	6.6393E-08	4.7407E-08	3.6865E-08
2.2118E-08	1.1059E-08	6.6352E-09	4.7394E-09	3.3155E-09

\*\*DIRECTION FROM SSE

3.2810E-06	3.7962E-07	1.6685E-07	9.4508E-08	6.3696E-08
2.9131E-08	9.8679E-09	4.4935E-09	2.6968E-09	1.5311E-09

\*\*DIRECTION FROM S

9.5074E-05	1.1000E-05	4.8350E-06	2.7386E-06	1.8458E-06
8.4415E-07	2.8595E-07	1.3021E-07	7.8145E-08	4.4368E-08

\*\*DIRECTION FROM SSW

2.0125E-06	9.7980E-08	5.8886E-08	4.2046E-08	3.2696E-08
1.9617E-08	9.8082E-09	5.8849E-09	4.2035E-09	2.9406E-09

\*\*DIRECTION FROM SW

1.0555E-06	5.1388E-08	3.0884E-08	2.2052E-08	1.7148E-08
1.0289E-08	5.1441E-09	3.0865E-09	2.2046E-09	1.5423E-09

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 1

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

4.4217E-05	3.5100E-06	1.4099E-06	7.6514E-07	4.9134E-07
2.0462E-07	6.2889E-08	3.1189E-08	2.1777E-08	1.4888E-08

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM N

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ENE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM E

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM ESE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM SE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSE

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM S

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM SW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WSW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9810 1 1 0 TO 98123124 0  
DOSE ACCUMULATION FOR BETA MRAD  
FOR RELEASE POINT 2

\*\*DIRECTION FROM W

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM WNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

\*\*DIRECTION FROM NNW

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0

12067.0 24135.0 40225.0 56315.0 80500.0

ENTE





THIS IS LAST ACCUMULATION  
 GAS DOSE ACCU, START DATE 9810 1 1 END DATE 98123124  
 NUMBER OF GOOD HOURS OF GASEOUS DOSE ACCUMULATION 2187  
 NUMBER OF BAD HOURS - NO GAS DOSE ACCUMULATION... 21  
 DOSE RATIO (NGOOD+NBAD)/NGOOD IS..... 1.0096  
 DOSES ARE..... NOT RATIOED

THIS IS LAST ACCUMULATION  
 INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
 FOR DATES 9810 1 1 THRU 98123124  
 T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 1.2E-06 5.6E-05  
 TEEN 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 1.2E-06 5.6E-05  
 CHILD 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 1.2E-06 5.6E-05  
 INFNT 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 4.6E-07 1.2E-06 5.6E-05

GROUND PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 2.2E-04  
 TEEN 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 2.2E-04  
 CHILD 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 2.2E-04  
 INFNT 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 2.2E-04

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
 ADULT 5.4E-04 5.4E-04 2.0E-07 5.4E-04 5.4E-04 5.4E-04 5.4E-04 0.0E+00  
 TEEN 6.2E-04 6.2E-04 3.1E-07 6.2E-04 6.2E-04 6.2E-04 6.2E-04 0.0E+00  
 CHILD 9.5E-04 9.5E-04 7.3E-07 9.5E-04 9.5E-04 9.5E-04 9.5E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD N  
 ADULT 7.7E-05 7.8E-05 2.2E-08 7.7E-05 7.7E-05 7.7E-05 7.7E-05 0.0E+00  
 TEEN 4.6E-05 4.6E-05 1.8E-08 4.6E-05 4.6E-05 4.6E-05 4.6E-05 0.0E+00  
 CHILD 5.6E-05 5.6E-05 3.3E-08 5.6E-05 5.6E-05 5.6E-05 5.6E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
 ADULT 4.6E-04 4.6E-04 6.0E-07 4.6E-04 4.6E-04 4.6E-04 4.6E-04 0.0E+00  
 TEEN 6.0E-04 6.0E-04 1.1E-06 6.0E-04 6.0E-04 5.9E-04 6.0E-04 0.0E+00  
 CHILD 9.4E-04 9.4E-04 2.6E-06 9.4E-04 9.4E-04 9.4E-04 9.4E-04 0.0E+00  
 INFNT 1.4E-03 1.4E-03 4.1E-06 1.4E-03 1.4E-03 1.4E-03 1.4E-03 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD N  
 ADULT 9.3E-04 9.3E-04 1.7E-06 9.3E-04 9.3E-04 9.3E-04 9.3E-04 0.0E+00  
 TEEN 1.2E-03 1.2E-03 3.1E-06 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
 CHILD 1.9E-03 1.9E-03 7.4E-06 1.9E-03 1.9E-03 1.9E-03 1.9E-03 0.0E+00  
 INFNT 2.9E-03 2.9E-03 1.2E-05 2.9E-03 2.9E-03 2.9E-03 2.9E-03 0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N  
 ADULT 1.2E-02 1.2E-02 2.2E-07 1.2E-02 1.2E-02 1.2E-02 1.2E-02 0.0E+00  
 TEEN 1.2E-02 1.2E-02 3.1E-07 1.2E-02 1.2E-02 1.2E-02 1.2E-02 0.0E+00  
 CHILD 1.0E-02 1.0E-02 4.2E-07 1.0E-02 1.0E-02 1.0E-02 1.0E-02 0.0E+00  
 INFNT 5.9E-03 5.9E-03 2.5E-07 5.9E-03 5.9E-03 5.9E-03 5.9E-03 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 1.4E-02 1.4E-02 1.9E-04 1.4E-02 1.4E-02 1.4E-02 1.4E-02 2.2E-04  
 TEEN 1.4E-02 1.4E-02 1.9E-04 1.4E-02 1.4E-02 1.4E-02 1.4E-02 2.2E-04

CHILD	1.4E-02	1.4E-02	1.9E-04	1.4E-02	1.4E-02	1.4E-02	1.4E-02	2.2E-04
INFNT	1.0E-02	1.0E-02	2.0E-04	1.0E-02	1.0E-02	1.0E-02	1.0E-02	2.2E-04

# DETAILS

ADULT	1.4E-02	1.4E-02	1.9E-04	1.4E-02	1.4E-02	1.4E-02	1.4E-02	2.7E-04
TEEN	1.4E-02	1.4E-02	1.9E-04	1.4E-02	1.4E-02	1.4E-02	1.4E-02	2.7E-04
CHILD	1.4E-02	1.4E-02	2.0E-04	1.4E-02	1.4E-02	1.4E-02	1.4E-02	2.7E-04
INFNT	1.0E-02	1.0E-02	2.0E-04	1.0E-02	1.0E-02	1.0E-02	1.0E-02	2.7E-04

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 9810 1 1 THRU 98123124

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME	PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE							
ADULT	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	2.4E-08	1.1E-06
TEEN	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	2.4E-08	1.1E-06
CHILD	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	2.4E-08	1.1E-06
INFNT	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	9.2E-09	2.4E-08	1.1E-06

GROUND	PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE							
ADULT	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.4E-04
TEEN	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.4E-04
CHILD	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.4E-04
INFNT	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.4E-04

VEGET	PATHWAY, DIST GP= 1, 814. METERS WINDS TOWARD NNE							
ADULT	6.0E-03	6.0E-03	9.2E-06	6.0E-03	6.0E-03	6.0E-03	6.0E-03	0.0E+00
TEEN	6.9E-03	6.9E-03	1.5E-05	6.9E-03	6.9E-03	6.9E-03	6.9E-03	0.0E+00
CHILD	1.1E-02	1.1E-02	3.4E-05	1.1E-02	1.1E-02	1.1E-02	1.1E-02	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT	PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NNE							
ADULT	3.1E-05	3.1E-05	2.4E-08	3.1E-05	3.0E-05	3.0E-05	3.0E-05	0.0E+00
TEEN	1.8E-05	1.8E-05	1.9E-08	1.8E-05	1.8E-05	1.8E-05	1.8E-05	0.0E+00
CHILD	2.2E-05	2.2E-05	3.4E-08	2.2E-05	2.2E-05	2.2E-05	2.2E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW	PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE							
ADULT	1.8E-04	1.8E-04	5.9E-07	1.8E-04	1.8E-04	1.8E-04	1.8E-04	0.0E+00
TEEN	2.3E-04	2.3E-04	1.1E-06	2.3E-04	2.3E-04	2.3E-04	2.3E-04	0.0E+00
CHILD	3.7E-04	3.7E-04	2.5E-06	3.7E-04	3.7E-04	3.7E-04	3.7E-04	0.0E+00
INFNT	5.6E-04	5.6E-04	3.9E-06	5.6E-04	5.6E-04	5.6E-04	5.6E-04	0.0E+00

GOAT	PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NNE							
ADULT	3.6E-04	3.6E-04	1.6E-06	3.7E-04	3.6E-04	3.6E-04	3.6E-04	0.0E+00
TEEN	4.7E-04	4.7E-04	3.0E-06	4.8E-04	4.7E-04	4.7E-04	4.7E-04	0.0E+00
CHILD	7.4E-04	7.4E-04	7.1E-06	7.5E-04	7.5E-04	7.4E-04	7.4E-04	0.0E+00
INFNT	1.1E-03	1.1E-03	1.1E-05	1.2E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00

INHAL	PATHWAY, DIST GP= 1, 660. METERS WINDS TOWARD NNE							
ADULT	4.6E-03	4.6E-03	1.4E-07	4.6E-03	4.6E-03	4.6E-03	4.6E-03	0.0E+00
TEEN	4.6E-03	4.6E-03	2.0E-07	4.6E-03	4.6E-03	4.6E-03	4.6E-03	0.0E+00
CHILD	4.1E-03	4.1E-03	2.6E-07	4.1E-03	4.1E-03	4.1E-03	4.1E-03	0.0E+00
INFNT	2.4E-03	2.4E-03	1.6E-07	2.4E-03	2.4E-03	2.4E-03	2.4E-03	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	1.1E-02	1.1E-02	2.1E-04	1.1E-02	1.1E-02	1.1E-02	1.1E-02	2.4E-04
TEEN	1.2E-02	1.2E-02	2.2E-04	1.2E-02	1.2E-02	1.2E-02	1.2E-02	2.4E-04
CHILD	1.6E-02	1.6E-02	2.5E-04	1.6E-02	1.6E-02	1.6E-02	1.6E-02	2.4E-04

INFNT 4.2E-03 4.2E-03 2.2E-04 4.3E-03 4.3E-03 4.2E-03 4.3E-03 2.4E-04

TOTALS

ADULT 1.1E-02 1.1E-02 2.1E-04 1.1E-02 1.1E-02 1.1E-02 1.1E-02 2.4E-04  
TEEN 1.2E-02 1.2E-02 2.2E-04 1.2E-02 1.2E-02 1.2E-02 1.2E-02 2.4E-04  
CHILD 1.6E-02 1.6E-02 2.5E-04 1.6E-02 1.6E-02 1.6E-02 1.6E-02 2.4E-04  
INFNT 4.2E-03 4.2E-03 2.2E-04 4.3E-03 4.3E-03 4.2E-03 4.3E-03 2.4E-04

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 6.0E-09 2.7E-07  
TEEN 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 6.0E-09 2.7E-07  
CHILD 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 6.0E-09 2.7E-07  
INFNT 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 2.2E-09 6.0E-09 2.7E-07

GROUND PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 8.9E-05  
TEEN 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 8.9E-05  
CHILD 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 8.9E-05  
INFNT 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 7.6E-05 8.9E-05

VEGET PATHWAY, DIST GP= 1, 1052. METERS WINDS TOWARD NE  
ADULT 1.9E-03 1.9E-03 4.0E-06 1.9E-03 1.9E-03 1.9E-03 1.9E-03 0.0E+00  
TEEN 2.2E-03 2.2E-03 6.2E-06 2.2E-03 2.2E-03 2.2E-03 2.2E-03 0.0E+00  
CHILD 3.4E-03 3.4E-03 1.5E-05 3.4E-03 3.4E-03 3.3E-03 3.3E-03 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 7725. METERS WINDS TOWARD NE  
ADULT 1.3E-05 1.3E-05 1.6E-08 1.3E-05 1.3E-05 1.3E-05 1.3E-05 0.0E+00  
TEEN 7.9E-06 7.9E-06 1.3E-08 7.9E-06 7.9E-06 7.8E-06 7.8E-06 0.0E+00  
CHILD 9.5E-06 9.5E-06 2.3E-08 9.5E-06 9.5E-06 9.5E-06 9.5E-06 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE  
ADULT 8.1E-05 8.1E-05 3.9E-07 8.2E-05 8.1E-05 8.1E-05 8.1E-05 0.0E+00  
TEEN 1.1E-04 1.1E-04 6.9E-07 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
CHILD 1.7E-04 1.7E-04 1.6E-06 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
INFNT 2.5E-04 2.5E-04 2.6E-06 2.6E-04 2.5E-04 2.5E-04 2.5E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD NE  
ADULT 1.7E-04 1.7E-04 1.1E-06 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
TEEN 2.2E-04 2.2E-04 1.9E-06 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
CHILD 3.4E-04 3.4E-04 4.7E-06 3.4E-04 3.4E-04 3.4E-04 3.4E-04 0.0E+00  
INFNT 5.2E-04 5.2E-04 7.4E-06 5.3E-04 5.2E-04 5.2E-04 5.2E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS WINDS TOWARD NE  
ADULT 1.2E-03 1.2E-03 3.4E-08 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
TEEN 1.2E-03 1.2E-03 4.8E-08 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00  
CHILD 1.1E-03 1.1E-03 6.4E-08 1.1E-03 1.1E-03 1.1E-03 1.1E-03 0.0E+00  
INFNT 6.3E-04 6.3E-04 3.9E-08 6.3E-04 6.3E-04 6.3E-04 6.3E-04 0.0E+00

TOTALS (NO PLUME)

ADULT 3.5E-03 3.5E-03 8.1E-05 3.5E-03 3.5E-03 3.5E-03 3.5E-03 8.9E-05  
TEEN 3.8E-03 3.8E-03 8.5E-05 3.8E-03 3.8E-03 3.8E-03 3.8E-03 8.9E-05  
CHILD 5.0E-03 5.0E-03 9.7E-05 5.1E-03 5.0E-03 5.0E-03 5.0E-03 8.9E-05  
INFNT 1.5E-03 1.5E-03 8.6E-05 1.5E-03 1.5E-03 1.5E-03 1.5E-03 8.9E-05

# TOTALS

	ADULT	TEEN	CHILD	INFNT
ADULT	3.5E-03	3.5E-03	8.1E-05	3.5E-03
TEEN	3.8E-03	3.8E-03	8.5E-05	3.8E-03
CHILD	5.0E-03	5.0E-03	9.7E-05	5.1E-03
INFNT	1.5E-03	1.5E-03	8.6E-05	1.5E-03

## THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	1.5E-05	1.5E-05	1.5E-05	1.5E-05
TEEN	1.5E-05	1.5E-05	1.5E-05	1.5E-05
CHILD	1.5E-05	1.5E-05	1.5E-05	1.5E-05
INFNT	1.5E-05	1.5E-05	1.5E-05	1.5E-05

VEGET PATHWAY, DIST GP= 1, 1852. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	6.0E-04	6.0E-04	1.2E-06	6.0E-04
TEEN	6.9E-04	6.9E-04	1.9E-06	6.9E-04
CHILD	1.1E-03	1.1E-03	4.5E-06	1.1E-03
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00

DEAT PATHWAY, DIST GP= 1, 3862. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	2.7E-05	2.8E-05	4.1E-08	2.7E-05
TEEN	1.6E-05	1.6E-05	3.4E-08	1.6E-05
CHILD	2.0E-05	2.0E-05	6.1E-08	2.0E-05
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	5.9E-05	5.9E-05	3.0E-07	5.9E-05
TEEN	7.7E-05	7.6E-05	5.3E-07	7.7E-05
CHILD	1.2E-04	1.2E-04	1.3E-06	1.2E-04
INFNT	1.8E-04	1.8E-04	2.0E-06	1.9E-04

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	1.2E-04	1.2E-04	8.4E-07	1.2E-04
TEEN	1.6E-04	1.6E-04	1.5E-06	1.6E-04
CHILD	2.5E-04	2.4E-04	3.7E-06	2.5E-04
INFNT	3.7E-04	3.7E-04	5.8E-06	3.8E-04

INHAL PATHWAY, DIST GP= 1, 1747. METERS WINDS TOWARD ENE

	ADULT	TEEN	CHILD	INFNT
ADULT	3.6E-04	3.6E-04	8.8E-09	3.6E-04
TEEN	3.7E-04	3.7E-04	1.2E-08	3.7E-04
CHILD	3.2E-04	3.2E-04	1.6E-08	3.2E-04
INFNT	1.9E-04	1.9E-04	1.0E-08	1.9E-04

## BTOTALS (NO PLUME)

	ADULT	TEEN	CHILD	INFNT
ADULT	1.2E-03	1.2E-03	1.8E-05	1.2E-03
TEEN	1.3E-03	1.3E-03	1.9E-05	1.3E-03
CHILD	1.8E-03	1.8E-03	2.5E-05	1.8E-03
INFNT	7.6E-04	7.6E-04	2.3E-05	7.7E-04



TOTALS

ADULT	1.2E-03	1.2E-03	1.8E-05	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.8E-05
TEEN	1.3E-03	1.3E-03	1.9E-05	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.8E-05
CHILD	1.8E-03	1.8E-03	2.5E-05	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-05
INFNT	7.6E-04	7.6E-04	2.3E-05	7.7E-04	7.6E-04	7.6E-04	7.6E-04	1.8E-05

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.6E-05
TEEN	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.6E-05
CHILD	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.6E-05
INFNT	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.6E-05

VEGET PATHWAY, DIST GP= 1, 1705. METERS WINDS TOWARD E

ADULT	1.3E-03	1.3E-03	1.7E-06	1.3E-03	1.3E-03	1.3E-03	1.3E-03	0.0E+00
TEEN	1.5E-03	1.5E-03	2.7E-06	1.5E-03	1.5E-03	1.5E-03	1.5E-03	0.0E+00
CHILD	2.3E-03	2.3E-03	6.3E-06	2.3E-03	2.3E-03	2.2E-03	2.2E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

INFNT PATHWAY, DIST GP= 1, 6810. METERS WINDS TOWARD E

ADULT	2.2E-05	2.2E-05	1.8E-08	2.2E-05	2.2E-05	2.2E-05	2.2E-05	0.0E+00
TEEN	1.3E-05	1.3E-05	1.5E-08	1.3E-05	1.3E-05	1.3E-05	1.3E-05	0.0E+00
CHILD	1.6E-05	1.6E-05	2.6E-08	1.6E-05	1.6E-05	1.6E-05	1.6E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	1.1E-04	1.1E-04	3.7E-07	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
TEEN	1.5E-04	1.5E-04	6.6E-07	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
CHILD	2.3E-04	2.3E-04	1.6E-06	2.3E-04	2.3E-04	2.3E-04	2.3E-04	0.0E+00
INFNT	3.5E-04	3.5E-04	2.5E-06	3.6E-04	3.5E-04	3.5E-04	3.5E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD E

ADULT	2.3E-04	2.3E-04	1.0E-06	2.3E-04	2.3E-04	2.3E-04	2.3E-04	0.0E+00
TEEN	3.0E-04	3.0E-04	1.9E-06	3.0E-04	3.0E-04	3.0E-04	3.0E-04	0.0E+00
CHILD	4.7E-04	4.7E-04	4.5E-06	4.8E-04	4.7E-04	4.7E-04	4.7E-04	0.0E+00
INFNT	7.2E-04	7.2E-04	7.2E-06	7.3E-04	7.3E-04	7.2E-04	7.2E-04	0.0E+00

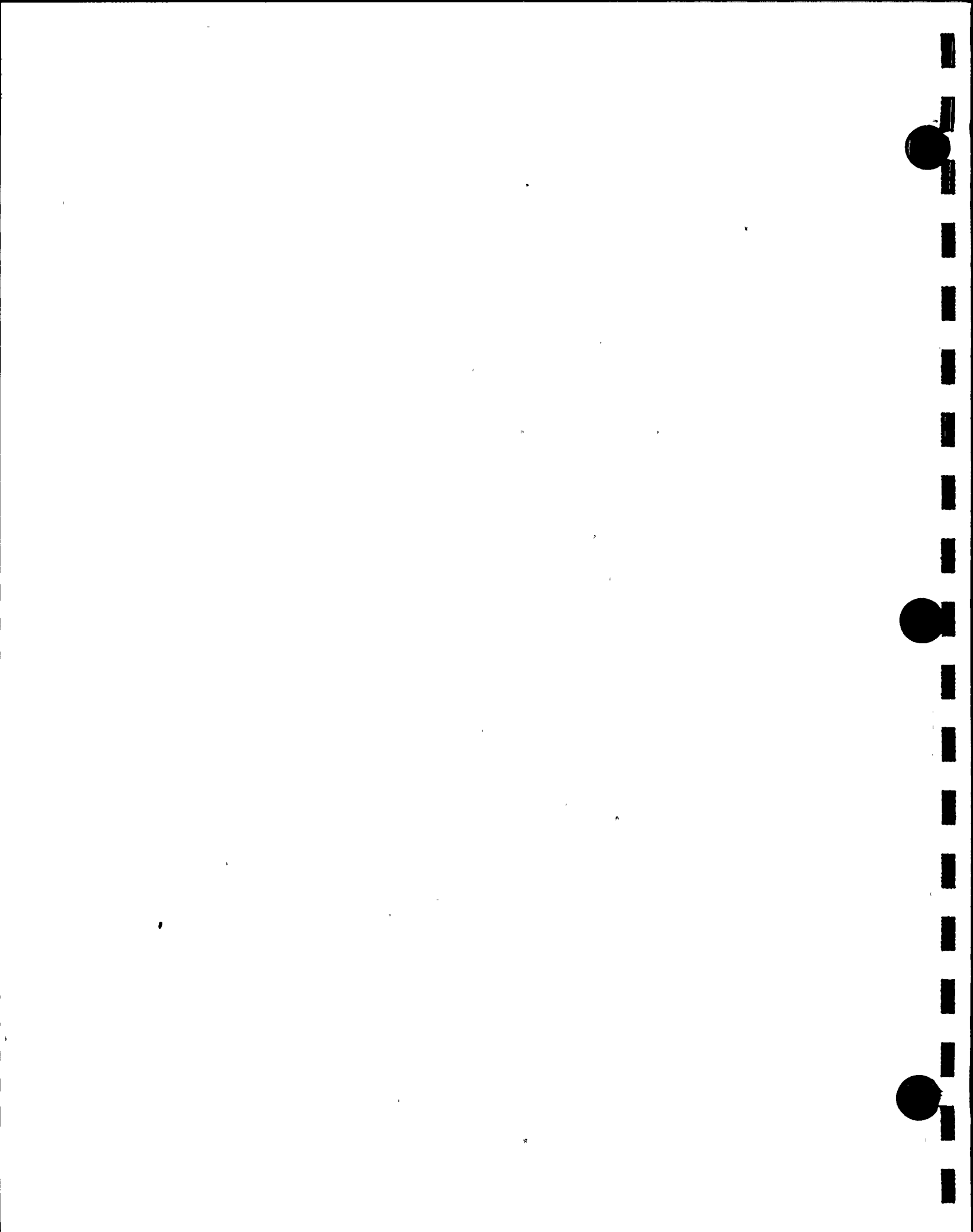
INHAL PATHWAY, DIST GP= 1, 1716. METERS WINDS TOWARD E

ADULT	7.0E-04	7.0E-04	1.6E-08	7.0E-04	7.0E-04	7.0E-04	7.0E-04	0.0E+00
TEEN	7.0E-04	7.0E-04	2.2E-08	7.0E-04	7.0E-04	7.0E-04	7.0E-04	0.0E+00
CHILD	6.2E-04	6.2E-04	3.0E-08	6.2E-04	6.2E-04	6.2E-04	6.2E-04	0.0E+00
INFNT	3.6E-04	3.6E-04	1.8E-08	3.6E-04	3.6E-04	3.6E-04	3.6E-04	0.0E+00

TOTALS (NO PLUME)

ADULT	2.4E-03	2.4E-03	2.5E-05	2.4E-03	2.4E-03	2.4E-03	2.4E-03	2.6E-05
TEEN	2.6E-03	2.6E-03	2.7E-05	2.6E-03	2.6E-03	2.6E-03	2.6E-03	2.6E-05
CHILD	3.6E-03	3.6E-03	3.4E-05	3.6E-03	3.6E-03	3.6E-03	3.6E-03	2.6E-05
INFNT	1.5E-03	1.5E-03	3.1E-05	1.5E-03	1.5E-03	1.5E-03	1.5E-03	2.6E-05

TOTALS



	ADULT	TEEN	CHILD	INFNT
ADULT	2.4E-03	2.4E-03	2.5E-05	2.4E-03
TEEN	2.6E-03	2.6E-03	2.7E-05	2.6E-03
CHILD	3.6E-03	3.6E-03	3.4E-05	3.6E-03
INFNT	1.5E-03	1.5E-03	3.1E-05	1.5E-03

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	3.1E-05	3.1E-05	3.1E-05	3.1E-05
TEEN	3.1E-05	3.1E-05	3.1E-05	3.1E-05
CHILD	3.1E-05	3.1E-05	3.1E-05	3.1E-05
INFNT	3.1E-05	3.1E-05	3.1E-05	3.1E-05

VEGET PATHWAY, DIST GP= 1, 1628. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	1.3E-03	1.3E-03	1.9E-06	1.3E-03
TEEN	1.5E-03	1.5E-03	3.0E-06	1.5E-03
CHILD	2.4E-03	2.4E-03	7.1E-06	2.4E-03
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00

WLT PATHWAY, DIST GP= 1, 2434. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	1.1E-04	1.1E-04	1.1E-07	1.1E-04
TEEN	6.3E-05	6.3E-05	9.2E-08	6.3E-05
CHILD	7.6E-05	7.6E-05	1.6E-07	7.6E-05
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	1.1E-04	1.1E-04	3.9E-07	1.1E-04
TEEN	1.5E-04	1.5E-04	7.0E-07	1.5E-04
CHILD	2.3E-04	2.3E-04	1.6E-06	2.3E-04
INFNT	3.5E-04	3.5E-04	2.6E-06	3.5E-04

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	2.3E-04	2.3E-04	1.1E-06	2.3E-04
TEEN	3.0E-04	3.0E-04	1.9E-06	3.0E-04
CHILD	4.7E-04	4.6E-04	4.7E-06	4.7E-04
INFNT	7.1E-04	7.1E-04	7.4E-06	7.2E-04

INHAL PATHWAY, DIST GP= 1, 1643. METERS WINDS TOWARD ESE

	ADULT	TEEN	CHILD	INFNT
ADULT	7.3E-04	7.3E-04	1.7E-08	7.3E-04
TEEN	7.3E-04	7.3E-04	2.4E-08	7.3E-04
CHILD	6.5E-04	6.5E-04	3.3E-08	6.5E-04
INFNT	3.7E-04	3.7E-04	2.0E-08	3.7E-04

SUBTOTALS (NO PLUME)

	ADULT	TEEN	CHILD	INFNT
ADULT	2.5E-03	2.5E-03	3.5E-05	2.5E-03
TEEN	2.8E-03	2.8E-03	3.7E-05	2.8E-03
CHILD	3.8E-03	3.8E-03	4.5E-05	3.8E-03
INFNT	1.5E-03	1.5E-03	4.2E-05	1.5E-03

TOTALS

	ADULT	TEEN	CHILD	INFNT
ADULT	2.5E-03	2.5E-03	3.5E-05	2.5E-03
TEEN	2.8E-03	2.8E-03	3.7E-05	2.8E-03
CHILD	3.8E-03	3.8E-03	4.5E-05	3.8E-03
INFNT	1.5E-03	1.5E-03	4.2E-05	1.5E-03





	TEEN	CHILD	INFNT
2.8E-03	2.8E-03	3.8E-03	1.5E-03
2.8E-03	3.8E-03	1.5E-03	
3.7E-05	4.5E-05	4.2E-05	
2.8E-03	3.8E-03	1.5E-03	
2.8E-03	3.8E-03	1.5E-03	
2.8E-03	3.8E-03	1.5E-03	
2.8E-03	3.8E-03	1.5E-03	
3.7E-05	3.7E-05	3.7E-05	

# THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

	T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME	PATHWAY,	DIST	GP=	1,	1136.	METERS	WINDS	TOWARD	SE
ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND	PATHWAY,	DIST	GP=	1,	1136.	METERS	WINDS	TOWARD	SE
ADULT	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.8E-05
TEEN	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.8E-05
CHILD	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.8E-05
INFNT	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.2E-05	3.8E-05

VEGET	PATHWAY,	DIST	GP=	1,	914.	METERS	WINDS	TOWARD	SE
ADULT	2.3E-03	2.4E-03	2.9E-06	2.4E-03	2.3E-03	2.3E-03	2.3E-03	2.3E-03	0.0E+00
TEEN	2.7E-03	2.7E-03	4.5E-06	2.7E-03	2.7E-03	2.7E-03	2.7E-03	2.7E-03	0.0E+00
CHILD	4.2E-03	4.2E-03	1.1E-05	4.2E-03	4.2E-03	4.2E-03	4.2E-03	4.2E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT	PATHWAY,	DIST	GP=	1,	4354.	METERS	WINDS	TOWARD	SE
ADULT	3.1E-05	3.1E-05	2.6E-08	3.1E-05	3.1E-05	3.1E-05	3.1E-05	3.1E-05	0.0E+00
TEEN	1.9E-05	1.9E-05	2.1E-08	1.9E-05	1.9E-05	1.8E-05	1.9E-05	1.9E-05	0.0E+00
CHILD	2.2E-05	2.2E-05	3.7E-08	2.2E-05	2.2E-05	2.2E-05	2.2E-05	2.2E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW	PATHWAY,	DIST	GP=	1,	4091.	METERS	WINDS	TOWARD	SE
ADULT	8.0E-05	8.0E-05	2.2E-07	8.1E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	0.0E+00
TEEN	1.0E-04	1.0E-04	4.0E-07	1.1E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	0.0E+00
CHILD	1.7E-04	1.7E-04	9.4E-07	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
INFNT	2.5E-04	2.5E-04	1.5E-06	2.5E-04	2.5E-04	2.5E-04	2.5E-04	2.5E-04	0.0E+00

GOAT	PATHWAY,	DIST	GP=	1,	4091.	METERS	WINDS	TOWARD	SE
ADULT	1.6E-04	1.6E-04	6.1E-07	1.6E-04	1.6E-04	1.6E-04	1.6E-04	1.6E-04	0.0E+00
TEEN	2.1E-04	2.1E-04	1.1E-06	2.1E-04	2.1E-04	2.1E-04	2.1E-04	2.1E-04	0.0E+00
CHILD	3.4E-04	3.4E-04	2.7E-06	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	0.0E+00
INFNT	5.1E-04	5.1E-04	4.3E-06	5.2E-04	5.1E-04	5.1E-04	5.1E-04	5.1E-04	0.0E+00

INHAL	PATHWAY,	DIST	GP=	1,	1136.	METERS	WINDS	TOWARD	SE
ADULT	9.3E-04	9.3E-04	1.9E-08	9.3E-04	9.3E-04	9.3E-04	9.3E-04	9.3E-04	0.0E+00
TEEN	9.3E-04	9.3E-04	2.7E-08	9.3E-04	9.3E-04	9.3E-04	9.4E-04	9.4E-04	0.0E+00
CHILD	8.3E-04	8.3E-04	3.6E-08	8.3E-04	8.3E-04	8.3E-04	8.3E-04	8.3E-04	0.0E+00
INFNT	4.7E-04	4.7E-04	2.1E-08	4.8E-04	4.7E-04	4.7E-04	4.8E-04	4.8E-04	0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	3.6E-03	3.6E-03	3.6E-05	3.6E-03	3.6E-03	3.6E-03	3.6E-03	3.6E-03	3.8E-05
TEEN	4.0E-03	4.0E-03	3.9E-05	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	3.8E-05
CHILD	5.5E-03	5.5E-03	4.7E-05	5.6E-03	5.5E-03	5.5E-03	5.5E-03	5.5E-03	3.8E-05
INFNT	1.3E-03	1.3E-03	3.8E-05	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	3.8E-05

## TOTALS

ADULT	3.6E-03	3.6E-03	3.6E-05	3.6E-03	3.6E-03	3.6E-03	3.6E-03	3.6E-03	3.8E-05
TEEN	4.0E-03	4.0E-03	3.9E-05	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	3.8E-05



CHILD	5.5E-03	5.5E-03	4.7E-05	5.6E-03	5.5E-03	5.5E-03	5.5E-03	3.8E-05
INFNT	1.3E-03	1.3E-03	3.8E-05	1.3E-03	1.3E-03	1.3E-03	1.3E-03	3.8E-05

# THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY	GI-TRCT	BONE	LIVER	KIDNEY	THYRD	LUNG	SKIN
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PLUME	PATHWAY, DIST GP= 1, 1507. METERS WINDS TOWARD SSE						
ADULT	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	1.3E-07 5.7E-06
TEEN	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	1.3E-07 5.7E-06
CHILD	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	1.3E-07 5.7E-06
INFNT	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	4.7E-08	1.3E-07 5.7E-06

GROUND	PATHWAY, DIST GP= 1, 1507. METERS WINDS TOWARD SSE						
ADULT	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05 3.0E-05
TEEN	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05 3.0E-05
CHILD	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05 3.0E-05
INFNT	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05	2.5E-05 3.0E-05

VEGET	PATHWAY, DIST GP= 1, 1093. METERS WINDS TOWARD SSE						
ADULT	1.9E-03	1.9E-03	2.7E-06	1.9E-03	1.9E-03	1.9E-03	1.9E-03 0.0E+00
TEEN	2.2E-03	2.2E-03	4.3E-06	2.2E-03	2.2E-03	2.2E-03	2.2E-03 0.0E+00
CHILD	3.4E-03	3.4E-03	1.0E-05	3.4E-03	3.4E-03	3.4E-03	3.4E-03 0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 0.0E+00

MEAT	PATHWAY, DIST GP= 1, 1093. METERS WINDS TOWARD SSE						
ADULT	2.8E-04	2.8E-04	3.2E-07	2.8E-04	2.8E-04	2.8E-04	2.8E-04 0.0E+00
TEEN	1.7E-04	1.7E-04	2.6E-07	1.7E-04	1.7E-04	1.7E-04	1.7E-04 0.0E+00
CHILD	2.0E-04	2.0E-04	4.6E-07	2.0E-04	2.0E-04	2.0E-04	2.0E-04 0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 0.0E+00

COW	PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSE						
ADULT	8.4E-05	8.4E-05	2.9E-07	8.5E-05	8.4E-05	8.4E-05	8.4E-05 0.0E+00
TEEN	1.1E-04	1.1E-04	5.1E-07	1.1E-04	1.1E-04	1.1E-04	1.1E-04 0.0E+00
CHILD	1.7E-04	1.7E-04	1.2E-06	1.7E-04	1.7E-04	1.7E-04	1.7E-04 0.0E+00
INFNT	2.6E-04	2.6E-04	1.9E-06	2.7E-04	2.6E-04	2.6E-04	2.6E-04 0.0E+00

GOAT	PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSE						
ADULT	1.7E-04	1.7E-04	7.9E-07	1.7E-04	1.7E-04	1.7E-04	1.7E-04 0.0E+00
TEEN	2.2E-04	2.2E-04	1.4E-06	2.3E-04	2.2E-04	2.2E-04	2.2E-04 0.0E+00
CHILD	3.5E-04	3.5E-04	3.4E-06	3.6E-04	3.5E-04	3.5E-04	3.5E-04 0.0E+00
INFNT	5.4E-04	5.4E-04	5.5E-06	5.4E-04	5.4E-04	5.4E-04	5.4E-04 0.0E+00

INHAL	PATHWAY, DIST GP= 1, 1507. METERS WINDS TOWARD SSE						
ADULT	6.5E-04	6.5E-04	1.8E-08	6.5E-04	6.5E-04	6.5E-04	6.6E-04 0.0E+00
TEEN	6.6E-04	6.6E-04	2.5E-08	6.6E-04	6.6E-04	6.6E-04	6.6E-04 0.0E+00
CHILD	5.8E-04	5.8E-04	3.4E-08	5.8E-04	5.8E-04	5.8E-04	5.8E-04 0.0E+00
INFNT	3.3E-04	3.3E-04	2.0E-08	3.3E-04	3.3E-04	3.3E-04	3.4E-04 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT	3.2E-03	3.2E-03	3.0E-05	3.2E-03	3.1E-03	3.1E-03	3.1E-03 3.0E-05
TEEN	3.4E-03	3.4E-03	3.2E-05	3.4E-03	3.4E-03	3.4E-03	3.4E-03 3.0E-05
CHILD	4.8E-03	4.8E-03	4.1E-05	4.8E-03	4.8E-03	4.8E-03	4.8E-03 3.0E-05
INFNT	1.2E-03	1.2E-03	3.3E-05	1.2E-03	1.2E-03	1.2E-03	1.2E-03 3.0E-05

## TOTALS

ADULT	3.2E-03	3.2E-03	3.0E-05	3.2E-03	3.1E-03	3.1E-03	3.1E-03 3.6E-05
TEEN	3.4E-03	3.4E-03	3.2E-05	3.4E-03	3.4E-03	3.4E-03	3.4E-03 3.6E-05
CHILD	4.8E-03	4.8E-03	4.1E-05	4.8E-03	4.8E-03	4.8E-03	4.8E-03 3.6E-05

INFNT 1.2E-03 1.2E-03 3.3E-05 1.2E-03 1.2E-03 1.2E-03 1.2E-03 3.6E-05

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S

ADULT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
TEEN	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHILD	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

GROUND PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S

ADULT	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	3.4E-05
TEEN	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	3.4E-05
CHILD	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	3.4E-05
INFNT	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	2.9E-05	3.4E-05

VEGET PATHWAY, DIST GP= 1, 863. METERS WINDS TOWARD S

ADULT	2.9E-03	2.9E-03	2.1E-06	2.9E-03	2.9E-03	2.9E-03	2.9E-03	0.0E+00
TEEN	3.3E-03	3.3E-03	3.3E-06	3.3E-03	3.3E-03	3.3E-03	3.3E-03	0.0E+00
CHILD	5.1E-03	5.1E-03	7.8E-06	5.1E-03	5.1E-03	5.1E-03	5.1E-03	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

MEAT PATHWAY, DIST GP= 1, 6115. METERS WINDS TOWARD S

ADULT	2.1E-05	2.1E-05	9.2E-09	2.1E-05	2.1E-05	2.1E-05	2.1E-05	0.0E+00
TEEN	1.2E-05	1.2E-05	7.4E-09	1.2E-05	1.2E-05	1.2E-05	1.2E-05	0.0E+00
CHILD	1.5E-05	1.5E-05	1.3E-08	1.5E-05	1.5E-05	1.5E-05	1.5E-05	0.0E+00
INFNT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

COW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S

ADULT	8.9E-05	8.9E-05	1.5E-07	8.9E-05	8.9E-05	8.9E-05	8.9E-05	0.0E+00
TEEN	1.2E-04	1.2E-04	2.7E-07	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
CHILD	1.8E-04	1.8E-04	6.3E-07	1.8E-04	1.8E-04	1.8E-04	1.8E-04	0.0E+00
INFNT	2.8E-04	2.8E-04	1.0E-06	2.8E-04	2.8E-04	2.8E-04	2.8E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD S

ADULT	1.8E-04	1.8E-04	4.1E-07	1.8E-04	1.8E-04	1.8E-04	1.8E-04	0.0E+00
TEEN	2.4E-04	2.4E-04	7.4E-07	2.4E-04	2.4E-04	2.4E-04	2.4E-04	0.0E+00
CHILD	3.7E-04	3.7E-04	1.8E-06	3.7E-04	3.7E-04	3.7E-04	3.7E-04	0.0E+00
INFNT	5.7E-04	5.7E-04	2.8E-06	5.7E-04	5.7E-04	5.7E-04	5.7E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS WINDS TOWARD S

ADULT	1.2E-03	1.2E-03	2.4E-08	1.2E-03	1.2E-03	1.2E-03	1.2E-03	0.0E+00
TEEN	1.2E-03	1.2E-03	3.3E-08	1.2E-03	1.2E-03	1.2E-03	1.2E-03	0.0E+00
CHILD	1.1E-03	1.1E-03	4.4E-08	1.1E-03	1.1E-03	1.1E-03	1.1E-03	0.0E+00
INFNT	6.2E-04	6.2E-04	2.6E-08	6.2E-04	6.2E-04	6.2E-04	6.2E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	4.4E-03	4.4E-03	3.1E-05	4.4E-03	4.4E-03	4.4E-03	4.4E-03	3.4E-05
TEEN	4.9E-03	4.9E-03	3.3E-05	4.9E-03	4.9E-03	4.9E-03	4.9E-03	3.4E-05
CHILD	6.7E-03	6.7E-03	3.9E-05	6.8E-03	6.7E-03	6.7E-03	6.7E-03	3.4E-05
INFNT	1.5E-03	1.5E-03	3.2E-05	1.5E-03	1.5E-03	1.5E-03	1.5E-03	3.4E-05

TOTALS

ADULT	4.4E-03	4.4E-03	3.1E-05	4.4E-03	4.4E-03	4.4E-03	4.4E-03	3.4E-05
TEEN	4.9E-03	4.9E-03	3.3E-05	4.9E-03	4.9E-03	4.9E-03	4.9E-03	3.4E-05
CHILD	6.7E-03	6.7E-03	3.9E-05	6.8E-03	6.7E-03	6.7E-03	6.7E-03	3.4E-05
INFNT	1.5E-03	1.5E-03	3.2E-05	1.5E-03	1.5E-03	1.5E-03	1.5E-03	3.4E-05



## THIS IS LAST ACCUMULATION

## INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.5E-05  
 TEEN 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.5E-05  
 CHILD 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.5E-05  
 INFNT 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.3E-05 1.5E-05

VEGET PATHWAY, DIST GP= 1, 770. METERS WINDS TOWARD SSW  
 ADULT 1.6E-03 1.6E-03 1.5E-06 1.6E-03 1.6E-03 1.6E-03 1.6E-03 0.0E+00  
 TEEN 1.8E-03 1.8E-03 2.4E-06 1.8E-03 1.8E-03 1.8E-03 1.8E-03 0.0E+00  
 CHILD 2.8E-03 2.8E-03 5.6E-06 2.8E-03 2.8E-03 2.8E-03 2.8E-03 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SSW  
 ADULT 6.1E-06 6.1E-06 3.1E-09 6.1E-06 6.1E-06 6.1E-06 6.1E-06 0.0E+00  
 TEEN 3.6E-06 3.6E-06 2.6E-09 3.6E-06 3.6E-06 3.6E-06 3.6E-06 0.0E+00  
 CHILD 4.4E-06 4.4E-06 4.6E-09 4.4E-06 4.4E-06 4.4E-06 4.4E-06 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

LOW PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW  
 ADULT 4.0E-05 4.0E-05 8.6E-08 4.0E-05 4.0E-05 4.0E-05 4.0E-05 0.0E+00  
 TEEN 5.3E-05 5.3E-05 1.5E-07 5.3E-05 5.3E-05 5.3E-05 5.3E-05 0.0E+00  
 CHILD 8.3E-05 8.3E-05 3.7E-07 8.3E-05 8.3E-05 8.3E-05 8.3E-05 0.0E+00  
 INFNT 1.3E-04 1.3E-04 5.8E-07 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 4091. METERS WINDS TOWARD SSW  
 ADULT 8.3E-05 8.2E-05 2.4E-07 8.3E-05 8.2E-05 8.2E-05 8.2E-05 0.0E+00  
 TEEN 1.1E-04 1.1E-04 4.4E-07 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 CHILD 1.7E-04 1.7E-04 1.1E-06 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 INFNT 2.6E-04 2.6E-04 1.7E-06 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS WINDS TOWARD SSW  
 ADULT 6.4E-04 6.4E-04 1.6E-08 6.4E-04 6.4E-04 6.4E-04 6.4E-04 0.0E+00  
 TEEN 6.4E-04 6.4E-04 2.2E-08 6.4E-04 6.4E-04 6.4E-04 6.4E-04 0.0E+00  
 CHILD 5.7E-04 5.7E-04 3.0E-08 5.7E-04 5.7E-04 5.7E-04 5.7E-04 0.0E+00  
 INFNT 3.3E-04 3.3E-04 1.8E-08 3.3E-04 3.3E-04 3.3E-04 3.3E-04 0.0E+00

## SUBTOTALS (NO PLUME)

ADULT 2.4E-03 2.4E-03 1.4E-05 2.4E-03 2.4E-03 2.4E-03 2.4E-03 1.5E-05  
 TEEN 2.6E-03 2.6E-03 1.6E-05 2.6E-03 2.6E-03 2.6E-03 2.6E-03 1.5E-05  
 CHILD 3.6E-03 3.6E-03 2.0E-05 3.6E-03 3.6E-03 3.6E-03 3.6E-03 1.5E-05  
 INFNT 7.2E-04 7.2E-04 1.5E-05 7.3E-04 7.2E-04 7.2E-04 7.2E-04 1.5E-05

## TOTALS

ADULT 2.4E-03 2.4E-03 1.4E-05 2.4E-03 2.4E-03 2.4E-03 2.4E-03 1.5E-05  
 TEEN 2.6E-03 2.6E-03 1.6E-05 2.6E-03 2.6E-03 2.6E-03 2.6E-03 1.5E-05  
 CHILD 3.6E-03 3.6E-03 2.0E-05 3.6E-03 3.6E-03 3.6E-03 3.6E-03 1.5E-05  
 INFNT 7.2E-04 7.2E-04 1.5E-05 7.3E-04 7.2E-04 7.2E-04 7.2E-04 1.5E-05





THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07  
TEEN 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07  
CHILD 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07  
INFNT 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 8.7E-05 8.7E-05 4.6E-08 8.7E-05 8.7E-05 8.7E-05 8.7E-05 0.0E+00  
TEEN 9.9E-05 9.9E-05 7.3E-08 9.9E-05 9.9E-05 9.9E-05 9.9E-05 0.0E+00  
CHILD 1.5E-04 1.5E-04 1.7E-07 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 1.2E-05 1.2E-05 5.0E-09 1.2E-05 1.2E-05 1.2E-05 1.2E-05 0.0E+00  
TEEN 7.4E-06 7.4E-06 4.1E-09 7.4E-06 7.4E-06 7.4E-06 7.4E-06 0.0E+00  
CHILD 9.0E-06 9.0E-06 7.4E-09 9.0E-06 9.0E-06 9.0E-06 9.0E-06 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 2.9E-05 2.9E-05 4.0E-08 2.9E-05 2.9E-05 2.9E-05 2.9E-05 0.0E+00  
TEEN 3.8E-05 3.8E-05 7.2E-08 3.8E-05 3.8E-05 3.8E-05 3.8E-05 0.0E+00  
CHILD 6.0E-05 6.0E-05 1.7E-07 6.0E-05 6.0E-05 6.0E-05 6.0E-05 0.0E+00  
INFNT 9.1E-05 9.1E-05 2.7E-07 9.2E-05 9.1E-05 9.1E-05 9.1E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 6.0E-05 6.0E-05 1.2E-07 6.0E-05 6.0E-05 6.0E-05 6.0E-05 0.0E+00  
TEEN 7.8E-05 7.8E-05 2.1E-07 7.8E-05 7.8E-05 7.8E-05 7.8E-05 0.0E+00  
CHILD 1.2E-04 1.2E-04 5.0E-07 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
INFNT 1.9E-04 1.9E-04 8.0E-07 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
ADULT 4.8E-05 4.8E-05 9.8E-10 4.8E-05 4.8E-05 4.8E-05 4.8E-05 0.0E+00  
TEEN 4.8E-05 4.8E-05 1.4E-09 4.8E-05 4.8E-05 4.8E-05 4.8E-05 0.0E+00  
CHILD 4.3E-05 4.3E-05 1.8E-09 4.3E-05 4.3E-05 4.3E-05 4.3E-05 0.0E+00  
INFNT 2.5E-05 2.5E-05 1.1E-09 2.5E-05 2.5E-05 2.5E-05 2.5E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 2.4E-04 2.4E-04 6.0E-07 2.4E-04 2.4E-04 2.4E-04 2.4E-04 4.6E-07  
TEEN 2.7E-04 2.7E-04 7.5E-07 2.7E-04 2.7E-04 2.7E-04 2.7E-04 4.6E-07  
CHILD 3.9E-04 3.9E-04 1.2E-06 3.9E-04 3.9E-04 3.9E-04 3.9E-04 4.6E-07  
INFNT 3.0E-04 3.0E-04 1.5E-06 3.0E-04 3.0E-04 3.0E-04 3.0E-04 4.6E-07

TOTALS

ADULT 2.4E-04 2.4E-04 6.0E-07 2.4E-04 2.4E-04 2.4E-04 2.4E-04 4.6E-07  
TEEN 2.7E-04 2.7E-04 7.5E-07 2.7E-04 2.7E-04 2.7E-04 2.7E-04 4.6E-07  
CHILD 3.9E-04 3.9E-04 1.2E-06 3.9E-04 3.9E-04 3.9E-04 3.9E-04 4.6E-07  
INFNT 3.0E-04 3.0E-04 1.5E-06 3.0E-04 3.0E-04 3.0E-04 3.0E-04 4.6E-07

THIS IS LAST ACCUMULATION

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 TEEN 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 CHILD 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07  
 TEEN 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07  
 CHILD 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07  
 INFNT 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 3.9E-07 4.6E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 8.7E-05 8.7E-05 4.6E-08 8.7E-05 8.7E-05 8.7E-05 8.7E-05 0.0E+00  
 TEEN 9.9E-05 9.9E-05 7.3E-08 9.9E-05 9.9E-05 9.9E-05 9.9E-05 0.0E+00  
 CHILD 1.5E-04 1.5E-04 1.7E-07 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 1.2E-05 1.2E-05 5.0E-09 1.2E-05 1.2E-05 1.2E-05 1.2E-05 0.0E+00  
 TEEN 7.4E-06 7.4E-06 4.1E-09 7.4E-06 7.4E-06 7.4E-06 7.4E-06 0.0E+00  
 CHILD 9.0E-06 9.0E-06 7.4E-09 9.0E-06 9.0E-06 9.0E-06 9.0E-06 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

W PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 2.9E-05 2.9E-05 4.0E-08 2.9E-05 2.9E-05 2.9E-05 2.9E-05 0.0E+00  
 TEEN 3.8E-05 3.8E-05 7.2E-08 3.8E-05 3.8E-05 3.8E-05 3.8E-05 0.0E+00  
 CHILD 6.0E-05 6.0E-05 1.7E-07 6.0E-05 6.0E-05 6.0E-05 6.0E-05 0.0E+00  
 INFNT 9.1E-05 9.1E-05 2.7E-07 9.2E-05 9.1E-05 9.1E-05 9.1E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 6.0E-05 6.0E-05 1.2E-07 6.0E-05 6.0E-05 6.0E-05 6.0E-05 0.0E+00  
 TEEN 7.8E-05 7.8E-05 2.1E-07 7.8E-05 7.8E-05 7.8E-05 7.8E-05 0.0E+00  
 CHILD 1.2E-04 1.2E-04 5.0E-07 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 INFNT 1.9E-04 1.9E-04 8.0E-07 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD SW  
 ADULT 4.8E-05 4.8E-05 9.8E-10 4.8E-05 4.8E-05 4.8E-05 4.8E-05 0.0E+00  
 TEEN 4.8E-05 4.8E-05 1.4E-09 4.8E-05 4.8E-05 4.8E-05 4.8E-05 0.0E+00  
 CHILD 4.3E-05 4.3E-05 1.8E-09 4.3E-05 4.3E-05 4.3E-05 4.3E-05 0.0E+00  
 INFNT 2.5E-05 2.5E-05 1.1E-09 2.5E-05 2.5E-05 2.5E-05 2.5E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 2.4E-04 2.4E-04 6.0E-07 2.4E-04 2.4E-04 2.4E-04 2.4E-04 4.6E-07  
 TEEN 2.7E-04 2.7E-04 7.5E-07 2.7E-04 2.7E-04 2.7E-04 2.7E-04 4.6E-07  
 CHILD 3.9E-04 3.9E-04 1.2E-06 3.9E-04 3.9E-04 3.9E-04 3.9E-04 4.6E-07  
 INFNT 3.0E-04 3.0E-04 1.5E-06 3.0E-04 3.0E-04 3.0E-04 3.0E-04 4.6E-07

TOTALS

ADULT 2.4E-04 2.4E-04 6.0E-07 2.4E-04 2.4E-04 2.4E-04 2.4E-04 4.6E-07  
 TEEN 2.7E-04 2.7E-04 7.5E-07 2.7E-04 2.7E-04 2.7E-04 2.7E-04 4.6E-07  
 CHILD 3.9E-04 3.9E-04 1.2E-06 3.9E-04 3.9E-04 3.9E-04 3.9E-04 4.6E-07  
 INFNT 3.0E-04 3.0E-04 1.5E-06 3.0E-04 3.0E-04 3.0E-04 3.0E-04 4.6E-07

THIS IS LAST ACCUMULATION



# INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 4.5E-08 2.0E-06  
 TEEN 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 4.5E-08 2.0E-06  
 CHILD 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 4.5E-08 2.0E-06  
 INFNT 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 1.7E-08 4.5E-08 2.0E-06

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 5.3E-07  
 TEEN 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 5.3E-07  
 CHILD 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 5.3E-07  
 INFNT 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 4.5E-07 5.3E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 2.1E-04 2.1E-04 4.2E-08 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00  
 TEEN 2.4E-04 2.4E-04 6.7E-08 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 CHILD 3.7E-04 3.7E-04 1.6E-07 3.7E-04 3.7E-04 3.7E-04 3.7E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 3.0E-05 3.0E-05 4.6E-09 3.0E-05 3.0E-05 3.0E-05 3.0E-05 0.0E+00  
 TEEN 1.8E-05 1.8E-05 3.8E-09 1.8E-05 1.8E-05 1.8E-05 1.8E-05 0.0E+00  
 CHILD 2.2E-05 2.2E-05 6.8E-09 2.2E-05 2.2E-05 2.2E-05 2.2E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

DW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 7.0E-05 7.0E-05 3.7E-08 7.0E-05 7.0E-05 7.0E-05 7.0E-05 0.0E+00  
 TEEN 9.2E-05 9.2E-05 6.7E-08 9.2E-05 9.2E-05 9.2E-05 9.2E-05 0.0E+00  
 CHILD 1.4E-04 1.4E-04 1.6E-07 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 INFNT 2.2E-04 2.2E-04 2.5E-07 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00

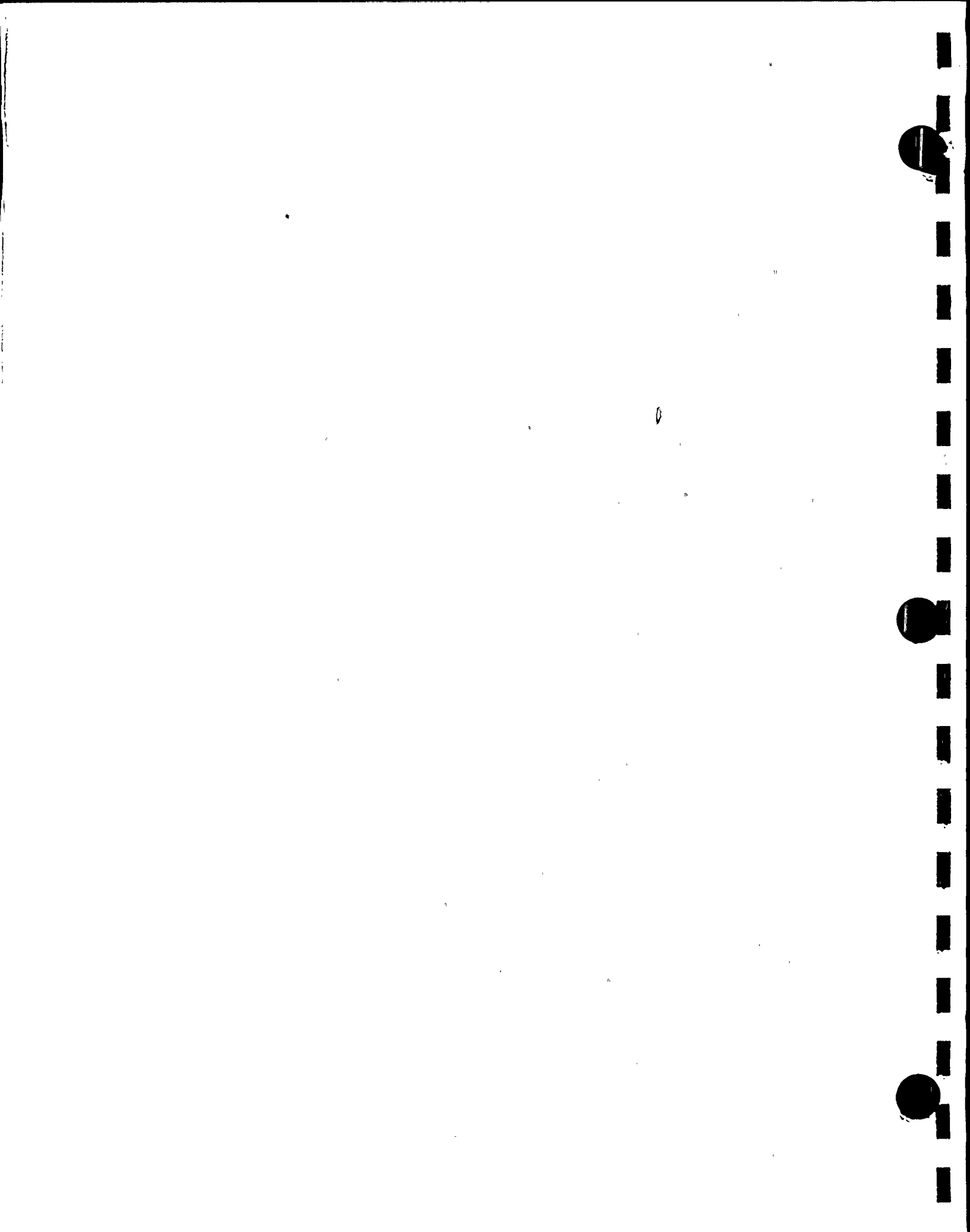
GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.4E-04 1.4E-04 1.1E-07 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 TEEN 1.9E-04 1.9E-04 1.9E-07 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 CHILD 2.9E-04 2.9E-04 4.6E-07 2.9E-04 2.9E-04 2.9E-04 2.9E-04 0.0E+00  
 INFNT 4.5E-04 4.5E-04 7.3E-07 4.5E-04 4.5E-04 4.5E-04 4.5E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WSW  
 ADULT 1.2E-04 1.2E-04 9.5E-10 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 TEEN 1.2E-04 1.2E-04 1.3E-09 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 CHILD 1.0E-04 1.0E-04 1.8E-09 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00  
 INFNT 5.9E-05 5.9E-05 1.1E-09 5.9E-05 5.9E-05 5.9E-05 5.9E-05 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 5.7E-04 5.7E-04 6.4E-07 5.7E-04 5.7E-04 5.7E-04 5.7E-04 5.3E-07  
 TEEN 6.5E-04 6.5E-04 7.8E-07 6.5E-04 6.5E-04 6.5E-04 6.5E-04 5.3E-07  
 CHILD 9.3E-04 9.3E-04 1.2E-06 9.3E-04 9.3E-04 9.3E-04 9.3E-04 5.3E-07  
 INFNT 7.3E-04 7.3E-04 1.4E-06 7.3E-04 7.3E-04 7.3E-04 7.3E-04 5.3E-07

TOTALS  
 ADULT 5.7E-04 5.7E-04 6.6E-07 5.7E-04 5.7E-04 5.7E-04 5.7E-04 2.6E-06  
 TEEN 6.5E-04 6.5E-04 8.0E-07 6.5E-04 6.5E-04 6.5E-04 6.5E-04 2.6E-06  
 CHILD 9.3E-04 9.3E-04 1.3E-06 9.3E-04 9.3E-04 9.3E-04 9.3E-04 2.6E-06  
 INFNT 7.3E-04 7.3E-04 1.5E-06 7.3E-04 7.3E-04 7.3E-04 7.3E-04 2.6E-06

THIS IS LAST ACCUMULATION  
 INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT



FOR DATES 9810 1 1 THRU 98123124  
T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 6.7E-08 3.0E-06  
TEEN 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 6.7E-08 3.0E-06  
CHILD 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 6.7E-08 3.0E-06  
INFNT 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 2.5E-08 6.7E-08 3.0E-06

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 4.1E-07  
TEEN 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 4.1E-07  
CHILD 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 4.1E-07  
INFNT 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 3.5E-07 4.1E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 3.1E-04 3.1E-04 2.1E-08 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 0.0E+00  
TEEN 3.6E-04 3.6E-04 3.3E-08 3.6E-04 3.6E-04 3.6E-04 3.6E-04 3.6E-04 0.0E+00  
CHILD 5.6E-04 5.6E-04 7.8E-08 5.6E-04 5.6E-04 5.6E-04 5.6E-04 5.6E-04 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 4.5E-05 4.5E-05 2.4E-09 4.5E-05 4.5E-05 4.5E-05 4.5E-05 4.5E-05 0.0E+00  
TEEN 2.7E-05 2.7E-05 2.0E-09 2.7E-05 2.7E-05 2.7E-05 2.7E-05 2.7E-05 0.0E+00  
CHILD 3.3E-05 3.3E-05 3.5E-09 3.3E-05 3.3E-05 3.3E-05 3.3E-05 3.3E-05 0.0E+00  
INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 1.1E-04 1.1E-04 1.9E-08 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
TEEN 1.4E-04 1.4E-04 3.4E-08 1.4E-04 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
CHILD 2.2E-04 2.2E-04 8.0E-08 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
INFNT 3.3E-04 3.3E-04 1.3E-07 3.3E-04 3.3E-04 3.3E-04 3.3E-04 3.3E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 2.2E-04 2.2E-04 5.2E-08 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 0.0E+00  
TEEN 2.8E-04 2.8E-04 9.4E-08 2.8E-04 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
CHILD 4.4E-04 4.4E-04 2.3E-07 4.4E-04 4.4E-04 4.4E-04 4.4E-04 4.4E-04 0.0E+00  
INFNT 6.8E-04 6.8E-04 3.6E-07 6.8E-04 6.8E-04 6.8E-04 6.8E-04 6.8E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD W  
ADULT 1.7E-04 1.7E-04 8.3E-10 1.7E-04 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
TEEN 1.8E-04 1.8E-04 1.2E-09 1.8E-04 1.8E-04 1.8E-04 1.8E-04 1.8E-04 0.0E+00  
CHILD 1.6E-04 1.6E-04 1.6E-09 1.6E-04 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
INFNT 8.9E-05 8.9E-05 9.4E-10 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 0.0E+00

SUBTOTALS (NO PLUME)  
ADULT 8.6E-04 8.6E-04 4.4E-07 8.6E-04 8.6E-04 8.6E-04 8.6E-04 8.6E-04 4.1E-07  
TEEN 9.8E-04 9.8E-04 5.1E-07 9.8E-04 9.8E-04 9.8E-04 9.8E-04 9.8E-04 4.1E-07  
CHILD 1.4E-03 1.4E-03 7.3E-07 1.4E-03 1.4E-03 1.4E-03 1.4E-03 1.4E-03 4.1E-07  
INFNT 1.1E-03 1.1E-03 8.3E-07 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 4.1E-07

TOTALS  
ADULT 8.6E-04 8.6E-04 4.7E-07 8.6E-04 8.6E-04 8.6E-04 8.6E-04 8.6E-04 3.4E-06  
TEEN 9.8E-04 9.8E-04 5.3E-07 9.8E-04 9.8E-04 9.8E-04 9.8E-04 9.8E-04 3.4E-06  
CHILD 1.4E-03 1.4E-03 7.6E-07 1.4E-03 1.4E-03 1.4E-03 1.4E-03 1.4E-03 3.4E-06  
INFNT 1.1E-03 1.1E-03 8.6E-07 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 3.4E-06

THIS IS LAST ACCUMULATION  
INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT  
FOR DATES 9810 1 1 THRU 98123124



T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 4.2E-07  
 CHILD 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 4.2E-07  
 INFNT 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 3.5E-09 4.2E-07

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 4.2E-07  
 TEEN 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 4.2E-07  
 CHILD 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 4.2E-07  
 INFNT 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 3.6E-07 4.2E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 2.8E-04 2.8E-04 3.0E-08 2.8E-04 2.8E-04 2.8E-04 2.8E-04 2.8E-04 2.8E-04 0.0E+00  
 TEEN 3.2E-04 3.2E-04 4.7E-08 3.2E-04 3.2E-04 3.2E-04 3.2E-04 3.2E-04 3.2E-04 0.0E+00  
 CHILD 5.0E-04 5.0E-04 1.1E-07 5.0E-04 5.0E-04 5.0E-04 5.0E-04 5.0E-04 5.0E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 4.1E-05 4.1E-05 3.3E-09 4.1E-05 4.1E-05 4.1E-05 4.1E-05 4.1E-05 4.1E-05 0.0E+00  
 TEEN 2.4E-05 2.4E-05 2.7E-09 2.4E-05 2.4E-05 2.4E-05 2.4E-05 2.4E-05 2.4E-05 0.0E+00  
 CHILD 2.9E-05 2.9E-05 4.8E-09 2.9E-05 2.9E-05 2.9E-05 2.9E-05 2.9E-05 2.9E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 9.6E-05 9.6E-05 2.6E-08 9.6E-05 9.6E-05 9.6E-05 9.6E-05 9.6E-05 9.6E-05 0.0E+00  
 TEEN 1.2E-04 1.2E-04 4.7E-08 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 CHILD 2.0E-04 2.0E-04 1.1E-07 2.0E-04 2.0E-04 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00  
 INFNT 3.0E-04 3.0E-04 1.8E-07 3.0E-04 3.0E-04 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 2.0E-04 2.0E-04 7.3E-08 2.0E-04 2.0E-04 2.0E-04 2.0E-04 2.0E-04 2.0E-04 0.0E+00  
 TEEN 2.5E-04 2.5E-04 1.3E-07 2.5E-04 2.5E-04 2.5E-04 2.5E-04 2.5E-04 2.5E-04 0.0E+00  
 CHILD 4.0E-04 4.0E-04 3.2E-07 4.0E-04 4.0E-04 4.0E-04 4.0E-04 4.0E-04 4.0E-04 0.0E+00  
 INFNT 6.1E-04 6.1E-04 5.1E-07 6.1E-04 6.1E-04 6.1E-04 6.1E-04 6.1E-04 6.1E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD WNW  
 ADULT 1.6E-04 1.6E-04 2.1E-09 1.6E-04 1.6E-04 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
 TEEN 1.6E-04 1.6E-04 2.9E-09 1.6E-04 1.6E-04 1.6E-04 1.6E-04 1.6E-04 1.6E-04 0.0E+00  
 CHILD 1.4E-04 1.4E-04 3.9E-09 1.4E-04 1.4E-04 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 INFNT 8.0E-05 8.0E-05 2.3E-09 8.0E-05 8.0E-05 8.0E-05 8.0E-05 8.0E-05 8.0E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 7.7E-04 7.7E-04 4.9E-07 7.7E-04 7.7E-04 7.7E-04 7.7E-04 7.7E-04 7.7E-04 4.2E-07  
 TEEN 8.9E-04 8.9E-04 5.9E-07 8.9E-04 8.9E-04 8.9E-04 8.9E-04 8.9E-04 8.9E-04 4.2E-07  
 CHILD 1.3E-03 1.3E-03 9.1E-07 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.3E-03 4.2E-07  
 INFNT 9.9E-04 9.9E-04 1.0E-06 9.9E-04 9.9E-04 9.9E-04 9.9E-04 9.9E-04 9.9E-04 4.2E-07

TOTALS

ADULT 7.7E-04 7.7E-04 5.0E-07 7.7E-04 7.7E-04 7.7E-04 7.7E-04 7.7E-04 7.7E-04 8.4E-07  
 TEEN 8.9E-04 8.9E-04 6.0E-07 8.9E-04 8.9E-04 8.9E-04 8.9E-04 8.9E-04 8.9E-04 8.4E-07  
 CHILD 1.3E-03 1.3E-03 9.1E-07 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.3E-03 1.3E-03 8.4E-07  
 INFNT 9.9E-04 9.9E-04 1.1E-06 9.9E-04 9.9E-04 9.9E-04 9.9E-04 9.9E-04 9.9E-04 8.4E-07

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN





PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 5.1E-10 2.3E-08  
 TEEN 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 5.1E-10 2.3E-08  
 CHILD 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 5.1E-10 2.3E-08  
 INFNT 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 1.9E-10 5.1E-10 2.3E-08

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 5.5E-07  
 TEEN 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 5.5E-07  
 CHILD 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 5.5E-07  
 INFNT 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 4.7E-07 5.5E-07

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 2.5E-04 2.5E-04 3.9E-08 2.5E-04 2.5E-04 2.5E-04 2.5E-04 0.0E+00  
 TEEN 2.9E-04 2.9E-04 6.1E-08 2.9E-04 2.9E-04 2.9E-04 2.9E-04 0.0E+00  
 CHILD 4.4E-04 4.4E-04 1.4E-07 4.4E-04 4.4E-04 4.4E-04 4.4E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 3.6E-05 3.6E-05 4.3E-09 3.6E-05 3.6E-05 3.6E-05 3.6E-05 0.0E+00  
 TEEN 2.1E-05 2.1E-05 3.5E-09 2.1E-05 2.1E-05 2.1E-05 2.1E-05 0.0E+00  
 CHILD 2.6E-05 2.6E-05 6.3E-09 2.6E-05 2.6E-05 2.6E-05 2.6E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 8.5E-05 8.5E-05 3.4E-08 8.5E-05 8.5E-05 8.5E-05 8.5E-05 0.0E+00  
 TEEN 1.1E-04 1.1E-04 6.1E-08 1.1E-04 1.1E-04 1.1E-04 1.1E-04 0.0E+00  
 CHILD 1.7E-04 1.7E-04 1.4E-07 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 INFNT 2.6E-04 2.6E-04 2.3E-07 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.7E-04 1.7E-04 9.5E-08 1.7E-04 1.7E-04 1.7E-04 1.7E-04 0.0E+00  
 TEEN 2.3E-04 2.2E-04 1.7E-07 2.3E-04 2.3E-04 2.2E-04 2.2E-04 0.0E+00  
 CHILD 3.5E-04 3.5E-04 4.2E-07 3.5E-04 3.5E-04 3.5E-04 3.5E-04 0.0E+00  
 INFNT 5.4E-04 5.4E-04 6.6E-07 5.4E-04 5.4E-04 5.4E-04 5.4E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NW  
 ADULT 1.4E-04 1.4E-04 1.7E-09 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 TEEN 1.4E-04 1.4E-04 2.4E-09 1.4E-04 1.4E-04 1.4E-04 1.4E-04 0.0E+00  
 CHILD 1.2E-04 1.2E-04 3.2E-09 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00  
 INFNT 7.1E-05 7.1E-05 1.9E-09 7.1E-05 7.1E-05 7.1E-05 7.1E-05 0.0E+00

#### SUBTOTALS (NO PLUME)

ADULT 6.8E-04 6.8E-04 6.4E-07 6.8E-04 6.8E-04 6.8E-04 6.8E-04 5.5E-07  
 TEEN 7.8E-04 7.8E-04 7.7E-07 7.8E-04 7.8E-04 7.8E-04 7.8E-04 5.5E-07  
 CHILD 1.1E-03 1.1E-03 1.2E-06 1.1E-03 1.1E-03 1.1E-03 1.1E-03 5.5E-07  
 INFNT 8.8E-04 8.8E-04 1.4E-06 8.8E-04 8.8E-04 8.8E-04 8.8E-04 5.5E-07

#### TOTALS

ADULT 6.8E-04 6.8E-04 6.4E-07 6.8E-04 6.8E-04 6.8E-04 6.8E-04 5.8E-07  
 TEEN 7.8E-04 7.8E-04 7.7E-07 7.8E-04 7.8E-04 7.8E-04 7.8E-04 5.8E-07  
 CHILD 1.1E-03 1.1E-03 1.2E-06 1.1E-03 1.1E-03 1.1E-03 1.1E-03 5.8E-07  
 INFNT 8.8E-04 8.8E-04 1.4E-06 8.8E-04 8.8E-04 8.8E-04 8.8E-04 5.8E-07

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 8.3E-10 3.7E-08  
 TEEN 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 8.3E-10 3.7E-08  
 CHILD 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 8.3E-10 3.7E-08  
 INFNT 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 3.1E-10 8.3E-10 3.7E-08

GROUND PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 2.0E-06  
 TEEN 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 2.0E-06  
 CHILD 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 2.0E-06  
 INFNT 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 1.7E-06 2.0E-06

VEGET PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 4.3E-04 4.3E-04 1.2E-07 4.3E-04 4.3E-04 4.3E-04 4.3E-04 0.0E+00  
 TEEN 4.9E-04 4.9E-04 2.0E-07 4.9E-04 4.9E-04 4.9E-04 4.9E-04 0.0E+00  
 CHILD 7.6E-04 7.6E-04 4.6E-07 7.6E-04 7.6E-04 7.6E-04 7.6E-04 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

MEAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 6.2E-05 6.2E-05 1.4E-08 6.2E-05 6.2E-05 6.2E-05 6.2E-05 0.0E+00  
 TEEN 3.7E-05 3.7E-05 1.1E-08 3.7E-05 3.7E-05 3.7E-05 3.7E-05 0.0E+00  
 CHILD 4.5E-05 4.5E-05 2.1E-08 4.5E-05 4.5E-05 4.5E-05 4.5E-05 0.0E+00  
 INFNT 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00

COW PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 1.5E-04 1.5E-04 1.1E-07 1.5E-04 1.5E-04 1.5E-04 1.5E-04 0.0E+00  
 TEEN 1.9E-04 1.9E-04 2.0E-07 1.9E-04 1.9E-04 1.9E-04 1.9E-04 0.0E+00  
 CHILD 3.0E-04 3.0E-04 4.7E-07 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
 INFNT 4.5E-04 4.5E-04 7.4E-07 4.6E-04 4.5E-04 4.5E-04 4.5E-04 0.0E+00

FAT PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 3.0E-04 3.0E-04 3.1E-07 3.0E-04 3.0E-04 3.0E-04 3.0E-04 0.0E+00  
 TEEN 3.9E-04 3.9E-04 5.6E-07 3.9E-04 3.9E-04 3.9E-04 3.9E-04 0.0E+00  
 CHILD 6.1E-04 6.1E-04 1.3E-06 6.1E-04 6.1E-04 6.1E-04 6.1E-04 0.0E+00  
 INFNT 9.3E-04 9.3E-04 2.2E-06 9.3E-04 9.3E-04 9.3E-04 9.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 8045. METERS WINDS TOWARD NNW  
 ADULT 2.4E-04 2.4E-04 4.0E-09 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 TEEN 2.4E-04 2.4E-04 5.6E-09 2.4E-04 2.4E-04 2.4E-04 2.4E-04 0.0E+00  
 CHILD 2.1E-04 2.1E-04 7.5E-09 2.1E-04 2.1E-04 2.1E-04 2.1E-04 0.0E+00  
 INFNT 1.2E-04 1.2E-04 4.5E-09 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00

SUBTOTALS (NO PLUME)  
 ADULT 1.2E-03 1.2E-03 2.2E-06 1.2E-03 1.2E-03 1.2E-03 1.2E-03 2.0E-06  
 TEEN 1.4E-03 1.4E-03 2.6E-06 1.4E-03 1.4E-03 1.3E-03 1.4E-03 2.0E-06  
 CHILD 1.9E-03 1.9E-03 4.0E-06 1.9E-03 1.9E-03 1.9E-03 1.9E-03 2.0E-06  
 INFNT 1.5E-03 1.5E-03 4.6E-06 1.5E-03 1.5E-03 1.5E-03 1.5E-03 2.0E-06

TOTALS  
 ADULT 1.2E-03 1.2E-03 2.2E-06 1.2E-03 1.2E-03 1.2E-03 1.2E-03 2.0E-06  
 TEEN 1.4E-03 1.4E-03 2.6E-06 1.4E-03 1.4E-03 1.3E-03 1.4E-03 2.0E-06  
 CHILD 1.9E-03 1.9E-03 4.0E-06 1.9E-03 1.9E-03 1.9E-03 1.9E-03 2.0E-06  
 INFNT 1.5E-03 1.5E-03 4.6E-06 1.5E-03 1.5E-03 1.5E-03 1.5E-03 2.0E-06

THIS IS LAST ACCUMULATION

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT

FOR DATES 9810 1 1 THRU 98123124

T.BODY GI-TRCT BONE LIVER KIDNEY THYRD LUNG SKIN

PLUME PATHWAY, DIST GP= 1, 659. METERS WINDS TOWARD N



**Appendix 6: Summary of Hourly Meteorological Data, First Quarter,  
1998**



SITE: AEP COOK

02/18/99 10:56

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	6	31	21	11	1	0	70
NNE	3	15	24	3	0	0	45
NE	1	15	23	2	0	0	41
ENE	2	20	12	2	0	0	36
E	5	24	16	0	0	0	45
ESE	6	27	17	0	0	0	50
SE	3	9	7	0	0	0	19
SSE	4	28	18	0	0	0	50
S	3	17	16	3	0	0	39
SSW	3	3	1	10	1	0	18
SW	5	7	10	1	0	0	23
WSW	11	10	12	1	0	0	34
W	7	21	9	0	0	0	37
WNW	7	22	1	0	0	0	30
NW	13	17	3	0	0	0	33
NNW	13	45	16	4	0	0	78
TOTAL	92	311	206	37	2	0	648

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: B DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	6	0	0	0	0	7
NNE	3	2	2	0	0	0	7
NE	1	2	3	4	0	0	10
ENE	1	6	4	1	0	0	12
E	0	8	3	0	0	0	11
ESE	2	8	6	0	0	0	16
SE	2	3	1	0	0	0	6
SSE	0	8	3	0	0	0	11
S	5	3	1	1	0	0	10
SSW	0	2	0	1	0	0	3
SW	1	3	4	4	0	0	12
WSW	0	6	5	3	0	0	14
W	2	10	5	1	0	0	18
WNW	2	11	0	0	0	0	13
NW	2	6	0	0	0	0	8
NNW	4	9	2	0	0	0	15
TOTAL	26	93	39	15	0	0	173

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: C DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	6	3	0	0	0	10
NNE	2	4	1	1	0	0	8
NE	1	1	8	1	0	0	11
ENE	1	4	3	0	0	0	8
E	4	15	18	0	0	0	37
ESE	2	3	6	1	0	0	12
SE	2	1	0	0	0	0	3
SSE	2	8	3	0	0	0	13
S	0	7	5	0	0	0	12
SSW	2	6	6	3	1	0	18
SW	1	5	5	2	0	0	13
WSW	0	3	8	2	0	0	13
W	3	15	5	0	0	0	23
WNW	3	6	5	0	0	0	14
NW	0	6	2	0	0	0	8
NNW	5	10	3	0	0	0	18
TOTAL	29	100	81	10	1	0	221

PERIODS OF CALM (HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: D DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

---

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	7	23	1	0	0	0	31
NNE	6	21	17	0	0	0	44
NE	4	20	3	0	0	0	27
ENE	7	17	7	0	0	0	31
E	13	29	22	0	0	0	64
ESE	6	13	20	0	0	0	39
SE	10	10	9	0	0	0	29
SSE	10	22	9	0	0	0	41
S	4	16	31	1	0	0	52
SSW	15	12	31	27	0	0	85
SW	6	6	18	5	0	0	35
WSW	12	5	15	5	0	0	37
W	12	36	12	3	0	0	63
WNW	5	23	4	0	0	0	32
NW	9	15	9	0	0	0	33
NNW	6	17	8	1	0	0	32
TOTAL	132	285	216	42	0	0	675

---

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: E DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	11	0	0	0	0	0	11
NNE	4	2	0	0	0	0	6
NE	8	4	0	0	0	0	12
ENE	14	20	0	0	0	0	34
E	17	17	0	0	0	0	34
ESE	15	15	2	0	0	0	32
SE	15	16	4	0	0	0	35
SSE	22	20	4	0	0	0	46
S	7	15	14	0	0	0	36
SSW	3	3	5	1	0	0	12
SW	4	5	4	1	0	0	14
WSW	8	3	2	0	0	0	13
W	3	0	0	0	0	0	3
WNW	5	0	0	0	0	0	5
NW	0	9	2	0	0	0	11
NNW	7	2	0	0	0	0	9
-----							
TOTAL	143	131	37	2	0	0	313
-----							

PERIODS OF CALM(HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: F DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

---

WIND SPEED(MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	1	0	0	0	0	0	1
ENE	4	0	0	0	0	0	4
E	3	0	0	0	0	0	3
ESE	7	1	0	0	0	0	8
SE	10	1	0	0	0	0	11
SSE	14	2	0	0	0	0	16
S	7	1	0	0	0	0	8
SSW	3	0	0	0	0	0	3
SW	3	0	0	0	0	0	3
WSW	2	1	0	0	0	0	3
W	3	0	0	0	0	0	3
WNW	2	0	0	0	0	0	2
NW	3	0	0	0	0	0	3
NNW	4	0	0	0	0	0	4
TOTAL	66	6	0	0	0	0	72

---

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: G DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

---

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	2	0	0	0	0	0	2
NE	1	0	0	0	0	0	1
ENE	3	3	0	0	0	0	6
E	9	0	0	0	0	0	9
ESE	9	0	0	0	0	0	9
SE	11	0	0	0	0	0	11
SSE	7	0	0	0	0	0	7
S	7	0	0	0	0	0	7
SSW	1	0	0	0	0	0	1
SW	1	0	0	0	0	0	1
WSW	0	0	0	0	0	0	0
W	3	0	0	0	0	0	3
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	1	0	0	0	0	0	1
TOTAL	55	3	0	0	0	0	58

---

PERIODS OF CALM (HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 10:57

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98010101-98033124

STABILITY CLASS: ALL DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	26	66	25	11	1	0	129
NNE	20	44	44	4	0	0	112
NE	17	42	37	7	0	0	103
ENE	32	70	26	3	0	0	131
E	51	93	59	0	0	0	203
ESE	47	67	51	1	0	0	166
SE	53	40	21	0	0	0	114
SSE	59	88	37	0	0	0	184
S	33	59	67	5	0	0	164
SSW	27	26	43	42	2	0	140
SW	21	26	41	13	0	0	101
WSW	33	28	42	11	0	0	114
W	33	82	31	4	0	0	150
WNW	24	62	10	0	0	0	96
NW	27	53	16	0	0	0	96
NNW	40	83	29	5	0	0	157
-----							
TOTAL	543	929	579	106	3	0	2160
-----							

PERIODS OF CALM (HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



LD

SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	4	13	1	0	0	0	18
NNE	6	8	2	0	0	0	16
NE	4	5	8	0	0	0	17
ENE	1	5	6	0	0	0	12
E	8	8	3	0	0	0	19
ESE	4	8	1	0	0	0	13
SE	3	9	13	0	0	0	25
SSE	2	18	5	1	0	0	26
S	2	5	5	0	0	0	12
SSW	3	9	8	4	0	0	24
SW	1	18	19	0	0	0	38
WSW	0	15	16	6	0	0	37
W	3	14	9	1	0	0	27
WNW	1	23	4	0	0	0	28
NW	3	15	0	0	0	0	18
NNW	2	11	0	0	0	0	13
TOTAL	47	184	100	12	0	0	343

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

**Appendix 7: Summary of Hourly Meteorological Data, Second Quarter,  
1998**





SITE: AEP COOK

02/18/99 11:36

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	11	47	18	0	0	0	76
NNE	7	5	5	0	0	0	17
NE	4	10	6	0	0	0	20
ENE	0	16	5	1	0	0	22
E	5	20	8	0	0	0	33
ESE	4	21	4	0	0	0	29
SE	8	24	4	0	0	0	36
SSE	4	31	10	5	0	0	50
S	2	28	4	2	0	0	36
SSW	3	13	2	0	0	0	18
SW	1	23	17	0	0	0	41
WSW	6	54	16	0	0	0	76
W	13	54	5	0	0	0	72
WNW	10	64	6	0	0	0	80
NW	15	45	0	0	0	0	60
NNW	11	86	10	0	0	0	107
-----							
TOTAL	104	541	120	8	0	0	773
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: B DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	6	2	0	0	0	9
NNE	1	4	1	0	0	0	6
NE	0	3	1	0	0	0	4
ENE	1	2	1	0	0	0	4
E	1	5	4	0	0	0	10
ESE	1	10	3	0	0	0	14
SE	5	1	1	0	0	0	7
SSE	0	4	0	0	0	0	4
S	1	6	1	0	0	0	8
SSW	0	2	0	0	0	0	2
SW	0	5	3	0	0	0	8
WSW	5	4	7	0	0	0	16
W	3	3	1	0	0	0	7
WNW	2	3	0	0	0	0	5
NW	1	2	0	0	0	0	3
NNW	10	7	0	0	0	0	17
TOTAL	32	67	25	0	0	0	124

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: C DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	1	9	0	0	0	0	10
NNE	1	1	0	0	0	0	2
NE	0	4	1	0	0	0	5
ENE	1	1	0	1	0	0	3
E	1	7	3	1	0	0	12
ESE	2	8	1	0	0	0	11
SE	0	4	0	0	0	0	4
SSE	0	2	0	1	0	0	3
S	1	2	2	0	0	0	5
SSW	3	1	2	0	0	0	6
SW	1	5	3	0	0	0	9
WSW	3	2	3	0	0	0	8
W	1	5	2	0	0	0	8
WNW	2	1	0	0	0	0	3
NW	4	2	0	0	0	0	6
NNW	5	6	0	0	0	0	11
-----							
TOTAL	26	60	17	3	0	0	106
-----							

PERIODS OF CALM (HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: D DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	8	17	2	0	0	0	27
NNE	5	13	4	0	0	0	22
NE	3	11	7	0	0	0	21
ENE	6	7	9	1	0	0	23
E	3	18	6	0	0	0	27
ESE	1	25	14	0	0	0	40
SE	6	7	3	0	0	0	16
SSE	3	11	10	1	0	0	25
S	2	15	3	1	0	0	21
SSW	2	7	8	2	0	0	19
SW	6	10	7	1	0	0	24
WSW	4	9	7	0	0	0	20
W	5	8	3	0	0	0	16
WNW	4	4	2	0	0	0	10
NW	2	0	0	0	0	0	2
NNW	11	9	2	0	0	0	22
TOTAL	71	171	87	6	0	0	335

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: E DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	14	12	0	0	0	0	26
NNE	13	3	0	0	0	0	16
NE	13	12	1	0	0	0	26
ENE	19	27	3	0	0	0	49
E	8	12	3	0	0	0	23
ESE	13	20	0	0	0	0	33
SE	8	7	1	0	0	0	16
SSE	6	11	8	0	0	0	25
S	11	12	0	0	0	0	23
SSW	6	18	4	0	0	0	28
SW	6	12	8	0	0	0	26
WSW	2	7	6	0	0	0	15
W	6	6	0	0	0	0	12
WNW	6	0	0	0	0	0	6
NW	9	2	0	0	0	0	11
NNW	12	2	0	0	0	0	14
-----							
TOTAL	152	163	34	0	0	0	349
-----							

PERIODS OF CALM (HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: F DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	5	0	0	0	0	0	5
NNE	4	1	0	0	0	0	5
NE	5	0	1	0	0	0	6
ENE	12	4	0	0	0	0	16
E	17	3	0	0	0	0	20
ESE	4	4	0	0	0	0	8
SE	10	0	0	0	0	0	10
SSE	16	0	0	0	0	0	16
S	14	7	0	0	0	0	21
SSW	6	4	0	0	0	0	10
SW	15	5	0	0	0	0	20
WSW	10	2	0	0	0	0	12
W	7	5	0	0	0	0	12
WNW	8	1	0	0	0	0	9
NW	2	0	0	0	0	0	2
NNW	6	1	0	0	0	0	7
-----							
TOTAL	141	37	1	0	0	0	179
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: G DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	2	0	0	0	0	0	2
NNE	3	0	0	0	0	0	3
NE	11	1	0	0	0	0	12
ENE	12	2	0	0	0	0	14
E	37	2	0	0	0	0	39
ESE	25	0	0	0	0	0	25
SE	39	0	0	0	0	0	39
SSE	48	1	0	0	0	0	49
S	39	6	0	0	0	0	45
SSW	28	2	0	0	0	0	30
SW	9	0	0	0	0	0	9
WSW	7	0	0	0	0	0	7
W	10	1	0	0	0	0	11
WNW	11	0	0	0	0	0	11
NW	10	0	0	0	0	0	10
NNW	5	0	0	0	0	0	5
-----							
TOTAL	296	15	0	0	0	0	311
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: AEP COOK

02/18/99 11:37

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98040101-98063024

STABILITY CLASS: ALL DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	42	91	22	0	0	0	155
NNE	34	27	10	0	0	0	71
NE	36	41	17	0	0	0	94
ENE	51	59	18	3	0	0	131
E	72	67	24	1	0	0	164
ESE	50	88	22	0	0	0	160
SE	76	43	9	0	0	0	128
SSE	77	60	28	7	0	0	172
S	70	76	10	3	0	0	159
SSW	48	47	16	2	0	0	113
SW	38	60	38	1	0	0	137
WSW	37	78	39	0	0	0	154
W	45	82	11	0	0	0	138
WNW	43	73	8	0	0	0	124
NW	43	51	0	0	0	0	94
NNW	60	111	12	0	0	0	183
-----							
TOTAL	822	1054	284	17	0	0	2177
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 7

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

Appendix 8: Summary of Hourly Meteorological Data, Third Quarter,  
1998



LD

SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	19	107	2	0	0	0	128
NNE	3	7	1	0	0	0	11
NE	4	11	0	0	0	0	15
ENE	4	17	0	0	0	0	21
E	13	18	0	0	0	0	31
ESE	9	13	0	0	0	0	22
SE	13	9	0	0	0	0	22
SSE	19	4	0	0	0	0	23
S	19	25	0	0	0	0	44
SSW	5	10	6	0	0	0	21
SW	3	62	21	0	0	0	86
WSW	3	59	13	0	0	0	75
W	3	42	0	0	0	0	45
WNW	8	36	0	0	0	0	44
NW	15	39	0	0	0	0	54
NNW	26	81	0	0	0	0	107
-----							
TOTAL	166	540	43	0	0	0	749
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: B DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

---

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	8	0	0	0	0	9
NNE	2	0	0	0	0	0	2
NE	1	1	0	0	0	0	2
ENE	2	1	0	0	0	0	3
E	8	4	0	0	0	0	12
ESE	4	2	0	0	0	0	6
SE	2	0	0	0	0	0	2
SSE	3	0	0	0	0	0	3
S	5	4	0	0	0	0	9
SSW	0	8	0	0	0	0	8
SW	3	6	1	0	0	0	10
WSW	0	7	2	0	0	0	9
W	1	0	0	0	0	0	1
WNW	1	1	0	0	0	0	2
NW	1	2	0	0	0	0	3
NNW	2	1	0	0	0	0	3
<hr/>							
TOTAL	36	45	3	0	0	0	84

---

PERIODS OF CALM (HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: C DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	4	6	0	0	0	0	10
NNE	0	1	0	0	0	0	1
NE	3	1	0	0	0	0	4
ENE	2	0	0	0	0	0	2
E	3	2	0	0	0	0	5
ESE	1	3	0	0	0	0	4
SE	4	0	0	0	0	0	4
SSE	2	0	0	0	0	0	2
S	5	9	1	0	0	0	15
SSW	3	3	0	0	0	0	6
SW	1	7	4	0	0	0	12
WSW	2	5	2	0	0	0	9
W	3	1	0	0	0	0	4
WNW	3	1	0	0	0	0	4
NW	4	0	0	0	0	0	4
NNW	4	0	0	0	0	0	4
TOTAL	44	39	7	0	0	0	90

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION  
PERIOD OF RECORD = 98070101-98093001  
STABILITY CLASS: D DT/DZ  
ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	12	19	0	0	0	0	31
NNE	12	4	0	0	0	0	16
NE	3	6	0	0	0	0	9
ENE	4	4	0	0	0	0	8
E	5	3	0	0	0	0	8
ESE	13	2	0	0	0	0	15
SE	7	0	0	0	0	0	7
SSE	8	1	0	0	0	0	9
S	12	5	0	0	0	0	17
SSW	12	15	6	0	0	0	33
SW	6	27	19	0	0	0	52
WSW	9	10	0	0	0	0	19
W	6	5	0	0	0	0	11
WNW	7	1	0	0	0	0	8
NW	5	1	0	0	0	0	6
NNW	8	2	0	0	0	0	10
TOTAL	129	105	25	0	0	0	259

PERIODS OF CALM(HOURS): 0  
VARIABLE DIRECTION 0  
HOURS OF MISSING DATA: 0  
ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: E DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	24	12	0	0	0	0	36
NNE	31	7	0	0	0	0	38
NE	20	9	0	0	0	0	29
ENE	6	9	0	0	0	0	15
E	10	7	0	0	0	0	17
ESE	14	2	0	0	0	0	16
SE	10	0	0	0	0	0	10
SSE	8	0	0	0	0	0	8
S	33	11	1	0	0	0	45
SSW	23	19	5	0	0	0	47
SW	14	25	6	0	0	0	45
WSW	6	12	4	0	0	0	22
W	10	2	0	0	0	0	12
WNW	9	0	0	0	0	0	9
NW	7	1	0	0	0	0	8
NNW	9	4	0	0	0	0	13
-----							
TOTAL	234	120	16	0	0	0	370
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: F DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	8	0	0	0	0	0	8
NNE	14	0	0	0	0	0	14
NE	19	3	0	0	0	0	22
ENE	23	3	0	0	0	0	26
E	19	0	0	0	0	0	19
ESE	19	0	0	0	0	0	19
SE	9	0	0	0	0	0	9
SSE	18	0	0	0	0	0	18
S	41	0	0	0	0	0	41
SSW	20	6	0	0	0	0	26
SW	9	5	0	0	0	0	14
WSW	1	0	0	0	0	0	1
W	2	0	0	0	0	0	2
WNW	2	0	0	0	0	0	2
NW	4	0	0	0	0	0	4
NNW	8	0	0	0	0	0	8
-----							
TOTAL	216	17	0	0	0	0	233
-----							

PERIODS OF CALM(HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: G DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

---

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	0	0	0	0	0	2
NNE	4	0	0	0	0	0	4
NE	5	0	0	0	0	0	5
ENE	25	0	0	0	0	0	25
E	57	0	0	0	0	0	57
ESE	49	0	0	0	0	0	49
SE	58	0	0	0	0	0	58
SSE	49	0	0	0	0	0	49
S	63	0	0	0	0	0	63
SSW	51	0	0	0	0	0	51
SW	4	0	0	0	0	0	4
WSW	14	0	0	0	0	0	14
W	7	0	0	0	0	0	7
WNW	4	0	0	0	0	0	4
NW	4	0	0	0	0	0	4
NNW	4	0	0	0	0	0	4
TOTAL	400	0	0	0	0	0	400

---

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





SITE: AEP COOK

02/22/99 09:40

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98070101-98093001

STABILITY CLASS: ALL DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	70	152	2	0	0	0	224
NNE	66	19	1	0	0	0	86
NE	55	31	0	0	0	0	86
ENE	66	34	0	0	0	0	100
E	115	34	0	0	0	0	149
ESE	109	22	0	0	0	0	131
SE	103	9	0	0	0	0	112
SSE	107	5	0	0	0	0	112
S	178	54	2	0	0	0	234
SSW	114	61	17	0	0	0	192
SW	40	132	51	0	0	0	223
WSW	35	93	21	0	0	0	149
W	32	50	0	0	0	0	82
WNW	34	39	0	0	0	0	73
NW	40	43	0	0	0	0	83
NNW	61	88	0	0	0	0	149
-----							
TOTAL	1225	866	94	0	0	0	2185
-----							

PERIODS OF CALM(HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



Appendix 9: Summary of Hourly Meteorological Data, Fourth Quarter,  
1998



SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: B DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	1	4	0	0	0	0	5
NNE	2	1	0	0	0	0	3
NE	1	3	1	0	0	0	5
ENE	2	1	2	0	0	0	5
E	2	1	0	0	0	0	3
ESE	2	5	0	0	0	0	7
SE	2	1	1	0	0	0	4
SSE	5	1	0	1	0	0	7
S	0	6	4	2	0	0	12
SSW	1	5	3	0	0	0	9
SW	1	5	3	1	0	0	10
WSW	0	4	8	4	0	0	16
W	1	5	4	1	0	0	11
WNW	2	4	5	0	0	0	11
NW	0	5	0	0	0	0	5
NNW	3	3	0	0	0	0	6
-----							
TOTAL	25	54	31	9	0	0	119
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: C DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	5	1	0	0	0	0	6
NNE	1	2	0	0	0	0	3
NE	1	4	1	0	0	0	6
ENE	3	1	1	0	0	0	5
E	0	1	0	0	0	0	1
ESE	2	3	2	0	0	0	7
SE	1	5	0	0	0	0	6
SSE	3	2	0	0	0	0	5
S	2	5	2	0	0	0	9
SSW	2	9	2	0	0	0	13
SW	2	6	4	0	2	0	14
WSW	0	6	7	0	0	0	13
W	0	7	6	0	0	0	13
WNW	0	3	5	0	0	0	8
NW	1	2	0	0	0	0	3
NNW	1	6	0	0	0	0	7
TOTAL	24	63	30	0	2	0	119

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: D DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

WIND SPEED (MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	10	14	7	5	0	0	36
NNE	9	12	1	0	0	0	22
NE	6	22	3	0	0	0	31
ENE	10	35	3	0	0	0	48
E	5	8	1	0	0	0	14
ESE	6	25	3	0	0	0	34
SE	7	12	6	0	0	0	25
SSE	11	11	17	1	0	0	40
S	9	49	27	4	0	0	89
SSW	2	39	50	13	0	0	104
SW	3	22	23	2	7	1	58
WSW	2	16	34	6	6	1	65
W	4	32	27	2	1	0	66
WNW	6	48	18	2	0	0	74
NW	9	47	9	0	0	0	65
NNW	10	48	17	4	0	0	79
TOTAL	109	440	246	39	14	2	850

PERIODS OF CALM(HOURS) : 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: E DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED(MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	10	7	2	0	0	0	19
NNE	7	4	0	0	0	0	11
NE	8	10	1	0	0	0	19
ENE	17	8	1	0	0	0	26
E	8	3	0	0	0	0	11
ESE	14	7	0	0	0	0	21
SE	6	9	3	0	0	0	18
SSE	22	20	1	0	0	0	43
S	16	52	19	0	0	0	87
SSW	5	29	19	0	0	0	53
SW	4	29	7	1	0	0	41
WSW	4	10	10	0	0	0	24
W	10	25	13	0	0	0	48
WNW	8	35	2	0	0	0	45
NW	2	6	0	0	0	0	8
NNW	8	4	0	0	0	0	12
-----							
TOTAL	149	258	78	1	0	0	486
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: F DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----	---	---	---	---	---	---	---
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	4	0	0	0	0	0	4
ENE	4	0	0	0	0	0	4
E	6	0	0	0	0	0	6
ESE	6	0	0	0	0	0	6
SE	5	0	0	0	0	0	5
SSE	25	8	0	0	0	0	33
S	18	20	0	0	0	0	38
SSW	6	10	0	0	0	0	16
SW	3	0	0	0	0	0	3
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	1	0	0	0	0	0	1
NW	2	0	0	0	0	0	2
NNW	1	0	0	0	0	0	1
-----							
TOTAL	81	38	0	0	0	0	119
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: G DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED (MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	2	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	1	0	0	0	0	0	1
ENE	8	1	0	0	0	0	9
E	23	0	0	0	0	0	23
ESE	17	0	0	0	0	0	17
SE	16	0	0	0	0	0	16
SSE	23	2	0	0	0	0	25
S	31	13	0	0	0	0	44
SSW	8	3	0	0	0	0	11
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	1	0	0	0	0	0	1
WNW	1	0	0	0	0	0	1
NW	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	0
-----							
TOTAL	132	19	0	0	0	0	151
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT





SITE: AEP COOK

02/22/99 10:45

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 98100101-98123124

STABILITY CLASS: ALL DT/DZ

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT60M

-----							
WIND SPEED(MPH)							
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
-----							
N	32	39	10	5	0	0	86
NNE	25	27	3	0	0	0	55
NE	25	44	14	0	0	0	83
ENE	45	51	13	0	0	0	109
E	52	21	4	0	0	0	77
ESE	51	48	6	0	0	0	105
SE	40	36	23	0	0	0	99
SSE	91	62	23	3	0	0	179
S	78	150	57	6	0	0	291
SSW	27	104	82	17	0	0	230
SW	14	80	56	4	9	1	164
WSW	6	51	75	16	6	1	155
W	19	83	59	4	1	0	166
WNW	19	113	34	2	0	0	168
NW	18	75	9	0	0	0	102
NNW	25	72	17	4	0	0	118
-----							
TOTAL	567	1056	485	61	16	2	2187
-----							

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 21

ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

