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AEP:NRC:0842V
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Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY 1, 1993 TO DECEMBER 31, 1993

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

ATTN: W. T. Russell

March 25, 1994

Dear Mr. Russell:

Enclosed herewith are six copies of the Radioactive Effluent Release Report for Donald C. Cook Nuclear Plant Units 1 and 2, corresponding to the period from January 1, 1993 to December 31, 1993. This report was prepared in accordance with Section 6.9.1.9 of the Plant's "Appendix A Technical Specification."

Sincerely,

W. E. Fitzpatrick
for E. E. Fitzpatrick
Vice President

pab

Enclosure

cc: A. A. Blind - Bridgman
G. Charnoff
J. B. Martin - Region III Administrator (2 encl.)
J. R. Padgett
NFEM Section Chief
NRC Resident Inspector - Bridgman

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Annual Radioactive Effluent Release Report

January 1 through December 31, 1993

**Indiana & Michigan Electric Company
Bridgman, Michigan**

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

9404040200

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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 1993. This is in accordance with the requirements of Cook Nuclear Plant Technical Specifications Sections 6.9.1.8 and 6.9.1.9.

The table below summarizes the pertinent statistics concerning the Plant's operation during the period from January 1, to December 31, 1993. The data in this table and the descriptive information on plant operation are based upon the respective Unit's Monthly Operating Reports for 1993.

<u>Parameter</u>	<u>Unit 1</u>	<u>Unit 2</u>
Gross Electrical Energy Generation (MWH)	9,079,300	7,853,870
Unit Service Factor (%)	100.0	96.6
Unit Capacity Factor - MDC* Net (%)	100.0	81.3
* Maximum Dependable Capacity		

Unit 1 entered the reporting period in Mode 1 at 100% rated thermal power (RTP). On January 29, 1993, reactor power was decreased to 90% RTP for main turbine valve testing. The reactor power was returned to 100 RTP on January 30. The reactor power was reduced to 57% RTP on February 12, to accommodate the removal of one main feed pump from service for planned maintenance activities. The unit was returned to 100% RTP on February 17 until September 10. On September 10, the reactor power was reduced to 55% RTP to establish system conditions required to support "Clamtrol" treatment of circulating and service water systems for zebra mussels. The reactor power was restored to 100% RTP on September 14, 1993 until the unit commenced reactor power reductions on December 28, in accordance with the end of core power coast down plan. The unit exited this reporting period in mode 1 at 89% RTP.

Unit 2 entered the reporting period in mode 1 at 100% RTP until the reactor power was reduced to 56% RTP on April 2, 1993, to accommodate the removal of one main feed pump from service for planned maintenance activities. The reactor power was returned to 100% RTP on April 8. The reactor power was reduced to 70% RTP on June 11, to extend the time interval between Unit 1 and Unit 2 1994 refueling outages. On July 10, reactor power was increased to 91% RTP due to system load demand. Reactor power was maintained between 91% and 88% until July 16 when the reactor power was again reduced to 70% RTP. A reactor trip from a turbine trip occurred on August 2, 1993. The turbine trip was caused by a spurious activation of the turbine exhaust hood high temperature trip. The reactor was taken critical on August 12 and stabilized reactor power at 75% on August 13. On August 27, a unit trip initiated by an unanticipated speed decrease by the east main feed pump turbine and the resulting feedwater transient. The reactor was taken critical on August 27 and was returned to service on August 28, stabilizing

reactor power at 70% on August 31. On September 10, reactor power was reduced to 55% RTP to establish system conditions required to support "Clamtrol" treatment of circulation service water systems for zebra mussels. The reactor power was returned to 75% RTP on September 14. The unit exited this reporting period in mode 1 at 85% RTP.

II. RADIOACTIVE RELEASES AND RADIOLOGICAL IMPACT UPON 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 6.9.1.9 of Appendix A to the Facility Operating Licenses, as specified in the Technical Specification and 10 CFR Part 50, Appendix I.

The "MIDAS System" by Pickard, Lowe and Garrick, Inc., is a computer code that calculates doses for all isotopes that were released by the Donald C. Cook Nuclear Plant.

All liquid and gaseous releases were well within Technical Specifications limits.

There were no abnormal liquid releases during 1993. However, there was one abnormal gaseous release involving the number 6 gas decay tank.

Liquid Releases

During the first quarter of 1993, there were 24 liquid batch releases and 17 liquid batch releases occurred during each of the second and third quarters. During the fourth quarter, there were 18 batch releases.

There were no abnormal liquid releases during 1993.

For the purpose of dose assessment, batch releases were treated as continuous releases. Estimated doses (in millirem) to maximally exposed individuals via the liquid release pathway are given in appendices 1.2, 1.3, 1.4, and 1.5 of this report.

Gaseous Releases

During the first quarter of 1993, there were 161 gaseous batch releases and 124 gaseous batch releases occurred during the second quarter. The third quarter there were 83 releases and the fourth quarter there were 116 gaseous batch releases.

On March 9, 1993, there was one abnormal gaseous release. Approximately 11 psig was lost from number 6 gas decay tank (GDT) during maintenance activities on the north waste gas compressor. The cause of the inadvertent release of the GDT was the concurrent failure of two valves within the waste gas system. Analysis performed indicated that no release limits were exceeded.

Containment pressure reliefs (CPR) are listed as batch releases in accordance with NRC inspections 50-315/89016 (DRSS) and 50-316/89017 (DRSS). There were 457 CPRs during 1993.

There were 18 waste gas decay tank releases and 2 releases from CVCS HUTs during 1993.

In calculating the dose consequences for continuous and batch gaseous releases during 1993, the meteorological data measured at the time of release was used.

The estimated doses (in millirem) to maximally exposed individuals via the gaseous release pathway are given in appendices 1.2, 1.3, 1.4, and 1.5 of this report.

Solid Waste Disposition

There were no shipments of radioactive waste made during 1993.

III. METEOROLOGICAL

Appendices 2.1, 2.2, 2.3, and 2.4 of this report contain the cumulative joint frequency distributions of wind speed and wind direction, corresponding to the various atmospheric stability classes for the first, second, third and fourth quarters of 1993. Hourly meteorological data is available for review and/or inspection upon request.

IV. PROCESS CONTROL PROGRAM (PCP) CHANGES

The Radioactive Waste Process Control Manual 12 PMP 3150 PCP.200 was not revised during this reporting period. The Radioactive Waste Process Control Manual 12 PMP 3150 PCP.100 was revised during this reporting period. The reasons for the changes and the PNSRC approval are documented on the procedure cover sheet and can be found in Appendix 3.0 of this report. It has been determined that the changes made did not reduce the overall conformance of the solidified waste product to existing criteria for solid wastes.

V. OFFSITE DOSE CALCULATION MANUAL (ODCM) CHANGES

The Offsite Dose Calculation Manual, PMP 6010.OSD.001, was changed during the report period. The reasons for the changes and the PNSRC approval are documented on the procedure change sheets and can be found in Appendix 4.0. These changes did not reduce the accuracy or reliability of dose calculations or setpoint determinations.

VI. TOTAL DOSE

Technical Specification 3.11.4 requires that the dose or dose commitment to a real individual from all uranium fuel cycle sources be limited to no more than twenty-five (25) millirem to the total body or any organ over a period of twelve (12) consecutive months to show conformance with the requirements of 40 CFR Part 190. The maximum cumulative dose to an individual from liquid and gaseous effluents during 1993 was well within Technical Specification 3.11.4 limits. Measurements using thermoluminescent dosimeters at ten (10) 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.

VII. 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 intended design function with no demonstrable adverse affect on the health and safety of the general public.

APPENDIX 1.1

Radioactive Release Data
January 1 - December 31, 1993



1993
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

Supplemental Information

Facility: Donald C. Cook Plant
Licensee: Indiana Michigan Power Company

1. 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 ≤ 5 mrad for gamma radiation and ≤ 10 mrad for beta radiation;
2. During any calendar year, to ≤ 10 mrad for gamma radiation and ≤ 20 mrad for beta radiation.

B. Iodines - 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 ≤ 7.5 mrem to any organ;
2. During any calendar year to ≤ 15 mrem to any organ.

C. Liquid Effluents

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

1. During any calendar quarter to ≤ 1.5 mrem to the total body and to ≤ 5 mrem to any organ;
2. During any calendar year to ≤ 3 mrem to the total body and to ≤ 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 ≤ 25 mrem to the total body or any organ (except the thyroid, which is limited to ≤ 75 mrem) over a period of 12 consecutive months.

2. 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: ≤ 500 mrem/yr to the total body and ≤ 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: ≤ 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 II.

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 II, Column 2, for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2×10^{-4} $\mu\text{Ci/ml}$ total activity.

3. Average Energy

The average energy (\bar{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.

4. 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.

5. Batch Releases

A. Liquid

1. Number of batch releases:

24 releases in the 1st quarter, 1993
17 releases in the 2nd quarter, 1993
17 releases in the 3rd quarter, 1993
18 releases in the 4th quarter, 1993

2. Total time period for batch releases:

12970 minutes

3. Maximum time for a batch release:

250 minutes

4. Average time period for batch release:

171 minutes

5. Minimum time period for a batch release:

47 minutes

6. Average stream flow during periods of release of effluent into a flowing stream:

8.56×10^5 gpm circulating water

B. Gaseous

1. Number of batch releases:

161 in the 1st quarter, 1993
124 in the 2nd quarter, 1993
83 in the 3rd quarter, 1993
116 in the 4th quarter, 1993

2. Total time period of batch releases:

15952 minutes

3. Maximum time period for a batch release:

1060 minutes

4. Average time period for batch releases:

33 minutes

5. Minimum time period for a batch release:

8 minutes

6. Abnormal Releases

A. Liquid

1. Number of Releases:

1st <u>Quarter</u>	2nd <u>Quarter</u>	3rd <u>Quarter</u>	4th <u>Quarter</u>
0	0	0	0

2. Total activity released:

1st <u>Quarter</u>	2nd <u>Quarter</u>	3rd <u>Quarter</u>	4th <u>Quarter</u>
0	0	0	0

B. Gaseous

1. Number of Releases:

1st <u>Quarter</u>	2nd <u>Quarter</u>	3rd <u>Quarter</u>	4th <u>Quarter</u>
1	0	0	0

2. Total activity released:

1st <u>Quarter</u>	2nd <u>Quarter</u>	3rd <u>Quarter</u>	4th <u>Quarter</u>
5.66E ⁻¹	0	0	0

1993

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					
Krypton-85	ci			9.40E+2	1.90E+2
Krypton-85m	ci	4.23E-1	4.18E-3	6.51E-1	4.56E-3
Krypton-87	ci	1.08E-2	4.01E-3	4.13E-3	3.62E-3
Xenon-131m	ci				
Xenon-133	ci	1.27E+2	1.36E+2	2.21E+2	1.01E+2
Xenon-135	ci	1.03E+1	6.28E+0	1.13E+1	2.35E+0
Xenon-135m	ci	4.31E-3	6.37E-3	6.64E-3	5.98E-3
Ar-41	ci	3.67E+1	7.34E-3	4.26E-3	5.88E-1
Krypton-88	ci	1.10E+0	7.63E-3	8.89E-3	7.88E-3
Xenon-133m	ci	2.11E-3	3.91E-3	4.84E-3	5.40E-3
Xenon-138	ci		9.77E-4	7.50E-4	3.98E-4
Total for Period	ci	1.76E+2	1.42E+2	1.17E+3	2.94E+2
2. IODINES I-132					
I-131	ci	2.64E-6	9.62E-6	4.51E-5	3.43E-6
I-133	ci	1.67E-5	2.08E-5	2.87E-5	4.22E-6
I-135	ci		4.29E-6	2.70E-6	
I-134	ci	2.42E-6	3.60E-7	1.47E-6	1.48E-5
Total for Period	ci	2.25E-5	3.67E-5	8.09E-5	3.13E-5
3. PARTICULATES					
Strontium-89	ci		7.53E-5		4.29E-6
Strontium-90	ci	4.83E-7			
Cesium-134	ci	6.92E-6	1.06E-5	8.46E-6	7.37E-6
Cesium-137	ci	3.65E-5	6.70E-5	5.71E-5	6.00E-5
Cobalt-58	ci			3.08E-7	
Cobalt-60	ci	8.26E-6	1.16E-6	1.84E-5	9.72E-7
Manganese-54	ci	1.25E-7	2.37E-7	7.19E-7	1.41E-8
Chromium-51	ci	2.84E-6		Co-57 2.14E-8	
Cesium-138	ci	1.03E-6	1.74E-6	Tin-113 4.62E-8	1.65E-6
Rubidium-88	ci		2.31E-5	Sb-125 2.62E-7	7.20E-6
Silver-110m	ci		6.11E-9	2.15E-6	
Zinc-65	ci			3.43E-7	
Zirconium-95	ci			2.05E-7	
Total for Period	ci	5.62E-5	1.79E-4	8.80E-5	8.15E-5

1993

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					
Krypton-85	ci	1.99E+0	9.26E-1	3.23E+0	5.88E+1
Krypton-85m	ci	6.10E-3	1.61E-1	2.67E-3	4.18E-2
Krypton-87	ci				5.22E-3
Xenon-131m	ci	2.71E-1	8.65E-2	2.05E-1	2.97E+0
Xenon-133	ci	9.79E+0	8.29E+0	1.13E+1	1.71E+2
Xenon-135	ci	6.20E-2	5.91E-2	5.04E-2	4.49E-1
Xenon-135m	ci			2.23E-5	
Ar-41	ci	8.43E-1	7.76E-1	1.23E+0	1.78E+0
Krypton-88	ci	3.61E-3	3.68E-3	1.32E-3	4.62E-2
Xenon-133m	ci	7.35E-2	6.54E-2	6.70E-2	9.90E-1
Xenon-138	ci				
Total for Period	ci	1.30E+1	1.04E+1	1.61E+1	2.36E+2
2. IODINES I-132					
	ci				2.17E-6
I-131	ci	1.58E-6		8.43E-7	1.37E-5
I-133	ci	4.54E-6		1.07E-6	9.99E-6
I-135	ci				
	ci				
Total for Period	ci	6.12E-6		1.91E-6	2.59E-5
3. PARTICULATES					
Strontium-89	ci				
Strontium-90	ci				
Cesium-134	ci				
Cesium-137	ci	4.32E-8	7.12E-8	2.95E-8	1.82E-5
Cobalt-58	ci				
Cobalt-60	ci	2.02E-5		5.35E-8	1.58E-5
	ci				
	ci				
	ci				
	ci				
	ci				
	ci				
Total for Period	ci	2.02E-5	7.12E-8	8.30E-8	3.40E-5

1993

**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	1.89E+2	1.52E+2	1.19E+3	5.30E+2	1.63E+1
2.	Average release rate for period.	μCi/sec	2.43E+1	1.93E+1	1.50E+2	6.67E+1	
3.	Percent of * applicable limit.	% γ β	1.90E+0 3.91E-1	3.66E-1 4.84E-1	1.73E+0 1.51E+1	6.14E-1 1.63E+0	
	*(T/S 3.11.2.2)						
B.	IODINES						
1.	Total I-131.	Ci	4.22E-6	9.62E-6	4.59E-5	1.71E-5	2.12E+1
2.	Average release rate for period.	μCi/sec	5.43E-7	1.22E-6	5.77E-6	2.15E-6	
3.	Percent of * applicable limit.	%	3.68E-2	5.72E-2	1.48E-1	1.59E-1	
	*(T/S 3.11.2.3)						
C.	PARTICULATES						
1.	Particulates with half lives > 8 days.	Ci	7.53E-5	1.54E-4	8.81E-5	1.07E-4	1.69E+1
2.	Average release rate for period.	μCi/sec	9.70E-6	1.94E-5	1.11E-5	1.35E-5	
3.	Percent of * applicable limit.	%	3.68E-2	5.72E-2	1.48E-1	1.59E-1	
4.	Gross alpha radioactivity.	Ci	<	<	<	<	
	*(T/S 3.11.2.3)						
D.	Tritium						
1.	Total release	Ci	3.17E+0	3.73E+0	8.27E+0	1.06E+1	1.12E+1
2.	Average release rate for period.	μCi/sec	4.08E-1	4.74E-1	1.04E+0	1.33E+0	
3.	Percent of # applicable limit.	%	5.54E+0	6.60E+0	1.26E+1	1.73E+1	

10 CFR 20 limit)



1993

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS

BATCH MODE

Nuclides released	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Strontium-89	ci				
Strontium-90	ci		1.66E-5	2.92E-6	9.52E-6
Cesium-134	ci	1.14E-2	2.09E-3	1.11E-2	1.02E-2
Cesium-137	ci	2.12E-2	4.25E-3	2.59E-2	1.09E-2
Cobalt-58	ci	2.07E-2	2.96E-2	9.59E-3	1.34E-3
Cobalt-60	ci	1.04E-2	3.62E-2	4.24E-2	6.82E-3
Manganese-54	ci	5.58E-3	3.12E-3	2.28E-3	3.70E-4
Iodine-131	ci				
Iodine-132	ci				
Iodine-133	ci				
Iodine-135	ci				
Sodium-24	ci	2.15E-5	1.18E-4	2.10E-5	3.85E-6
Iron-55	ci	1.10E-2	3.34E-3	1.41E-2	1.39E-2
Chromium-51	ci	6.49E-4	3.91E-2	2.09E-3	
Iron-59	ci	8.38E-5	5.11E-4	1.27E-5	
Zinc-65	ci	1.80E-4	1.88E-3	1.18E-3	1.02E-4
Zirconium/Niobium-95	ci	8.96E-4	8.00E-3	1.56E-3	7.33E-5
Ruthenium-103	ci		1.71E-5		
Silver-110m	ci	1.68E-2	1.19E-2	1.21E-2	1.58E-3
Cobalt-57	ci	2.32E-4	1.86E-4	1.22E-4	1.44E-5
Antimony-124	ci	9.84E-4	6.04E-3	2.24E-3	6.31E-4
Antimony-125	ci	4.73E-3	1.74E-2	1.73E-2	5.33E-3
Lanthanum-140	ci	3.42E-6		5.34E-6	
Tin-113	ci	1.46E-4	3.47E-4	1.98E-4	
Beryllium-7	ci		5.48E-4		
Hafnium-181	ci		1.38E-5		
	ci				
	ci				
	ci				
Xenon-131m	ci	1.90E-5	3.67E-5		
Xenon-133m	ci	5.56E-6	6.54E-6		
Xenon-133	ci	5.86E-4	4.99E-3	2.05E-4	2.34E-4
Xenon-135	ci		1.65E-6		
Xenon-135m	ci				
Argon-41	ci				

1993

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

CONTINUOUS

		Units	Quarter 1st	Quarter 2nd	Quarter 3rd	Quarter 4th	Est. Total Error, %
A.	FISSION AND ACTIVATION PRODUCTS						
1.	Total Release.	Ci	3.07E-3	1.08E-2	4.62E-2	1.40E-2	2.16E+1
2.	Average diluted concentration during period.	$\mu\text{Ci/ml}$	4.03E-12	1.29E-11	5.52E-11	1.69E-11	
3.	Percent of applicable limit.	%	1.87E-4	2.97E-4	2.48E-4	2.02E-4	
B.	TRITIUM						
1.	Total Release	Ci	5.37E-1	9.66E-1	1.32E+0	1.07E+0	1.21E+1
2.	Average diluted concentration during period.	$\mu\text{Ci/ml}$	7.06E-10	1.15E-9	1.58E-9	1.29E-9	
3.	Percent of applicable limit.	%	7.06E-5	1.15E-4	1.58E-4	1.29E-4	
C.	DISSOLVED AND ENTRAINED GASES						
1.	Total Release	Ci	6.53E-6	1.06E-4	1.41E-4	2.38E-4	2.84E+1
2.	Average diluted concentration during period.	$\mu\text{Ci/ml}$	8.58E-15	1.27E-13	1.68E-13	2.87E-13	
3.	Percent of applicable limit.	%	4.29E-9	6.30E-8	8.40E-8	1.44E-7	

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

BATCH

		Units	Quarter 1st	Quarter 2nd	Quarter 3rd	Quarter 4th	Est. Total Error, %
A.	FISSION AND ACTIVATION PRODUCTS						
1.	Total Release.	Ci	1.05E-1	1.65E-1	1.42E-1	5.13E-2	2.08E+1
2.	Average diluted concentration during period.	μCi/ml	1.01E-8	1.68E-8	1.28E-8	4.89E-9	
3.	Percent of applicable limit.	%	4.03E-1	2.53E-1	5.07E-1	2.41E-1	
B.	TRITIUM						
1.	Total Release	Ci	9.24E+1	2.38E+2	1.28E+2	1.39E+2	1.04E+1
2.	Average diluted concentration during period.	μCi/ml	8.88E-6	2.42E-5	1.15E-5	1.32E-5	
3.	Percent of applicable limit.	%	8.88E-1	2.42E+0	1.15E+0	1.32E+0	
C.	DISSOLVED AND ENTRAINED GASES						
1.	Total Release	Ci	6.11E-4	5.03E-3	2.05E-4	2.34E-4	1.29E+1
2.	Average diluted concentration during period.	μCi/ml	5.88E-11	5.11E-10	1.85E-11	2.23E-11	
3.	Percent of applicable limit.	%	2.94E-5	2.57E-4	9.25E-6	1.12E-5	

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**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS**

CONTINUOUS

		Unit	Quarter 1st	Quarter 2nd	Quarter 3rd	Quarter 4th	Est. Total Error, %
D.	Gross Alpha Radioactivity Total Release	Ci	<5.97E-3	<4.48E-3	<5.59E-3	<6.04E-3	N/A
E.	Volume of Waste Released	Liters	1.39E+8	1.35E+8	1.48E+8	1.33E+8	2.00E+0
F.	Volume of Dilution Water used During Period	Liters	7.61E+11	8.37E+11	8.37E+11	8.29E+11	3.48E+0

BATCH

		Unit	Quarter 1st	Quarter 2nd	Quarter 3rd	Quarter 4th	Est. Total Error
D.	Gross Alpha Radioactivity Total Release	Ci	<8.00E-5	<3.45E-5	<3.48E-5	<6.31E-5	N/A
E.	Volume of Waste Released	Liters	1.28E+6	1.01E+6	1.03E+6	1.03E+6	2.00E+0
F.	Volume of Dilution Water used During Period	Liters	1.04E+10	9.84E+9	1.11E+10	1.05E+10	3.48E+0

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORTSOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid Waste Shipped Offsite for Burial or Disposal

1.	Type of Waste	Unit	12 month Period	Est.Total Error, %
a.	Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	0 0	
b.	Dry compressible waste, contaminated equipment, etc.	m ³ Ci	0 0	
c.	Irradiated components, control rods, etc.	m ³ Ci	0 0	
d.	Other	m ³ Ci		

2. Estimate of Major Nuclide Composition

a.	Cs-137	N/A	%
	Cs-134		%
	Co-58		%
	Co-60		%
b.	Co-60	N/A	%
	Co-58		%
	Cs-137		%
	Cs-134		%

3. Solid Waste Disposition

<u>No. of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0		Barnwell, SC
0		Richland, WA

4. Type of Containers Used for Shipment

There were no waste shipments made to a burial site during this reporting period.

5. Solidification Agent

There were no solidifications performed during this reporting period.

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EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

YEARLY RELEASE RATES

I. Gases

A.	<u>Fission and Activation Gases</u>	<u>Units</u>
1.	Total Release	Ci 2.06E+3
2.	Average Release Rate	$\mu\text{Ci/sec}$ 6.53E+1
3.	% of Applicable Limits	γ % 1.90E+0 β % 8.80E+0
B.	<u>Iodines</u>	
1.	Total Iodine-131 Release	Ci 7.68E-5
2.	Average Release Rate	$\mu\text{Ci/sec}$ 2.44E-6
3.	% of Applicable Limit	% 2.01E-1
C.	<u>Particulates</u>	
1.	Total Release	Ci 4.24E-4
2.	Average Release Rate	$\mu\text{Ci/sec}$ 1.34E-5
3.	% of Applicable Limit	% 2.01E-1

II. Liquids

A.	<u>Fission and Activation Products</u>	
1.	Total Release	Ci 5.37E-1
2.	Average Diluted Concentration	$\mu\text{Ci/ml}$ 1.28E-8
3.	% of Applicable Limit	Total Body % 8.40E+0 Liver and GI Tract % 3.65E+0

Release Number	Start Stop	Start Stop	Xe131m	Xe133	I131	H3	Xe133m	Kr85	Ar41	Xe135	Co60	Cs137	Kr88	Kr85m	I133
G-93-1*	01/12/93 01/12/93	0225 0247				9.33E-6		2.45E-1				3.02E-8			
G-93-2*	01/15/93 01/15/93	0135 0219		8.67E-6		9.79E-6		3.16E-1							
G-93-3	01/22/93 01/23/93	2005 0745	1.70E-1	2.09E+0	1.30E-6	3.40E-1	1.60E-2	4.63E-1	9.60E-2	9.85E-3	1.67E-5			1.38E-3	3.76E-6
G-93-4*	02/11/93 02/11/93	1515 1555		1.05E-5		1.08E-5		2.32E-1							
UNPLAN *	03/09/93 03/09/93	0900 0915	1.01E-2	4.94E-1	8.94E-9	5.21E-3	2.70E-3	5.47E-2		8.87E-6		1.30E-8			
G-93-5*	03/18/93 03/18/93	1515 1610	1.68E-4	1.93E-4		1.51E-5		1.96E-1							
G-93-6*	04/14/93 04/14/93	0505 0550		2.07E-4		7.32E-6		1.92E-1				7.12E-8			
G-93-7*	05/21/93 05/21/93	0020 0118		4.81E-4		1.65E-5		2.02E-1							
G-93-8	05/27/93 05/27/93	0255 0913		3.34E-5		1.69E-5		1.41E-2							
G-93-9*	06/25/93 06/25/93	1721 1805		1.20E-4		9.53E-6		1.36E-1							
G-93-10*	07/28/93 07/28/93	0957 1041		2.05E-4		3.03E-5		1.45E-1							
G-93-11	08/04/93 08/04/93	0815 0958		2.95E-2	8.42E-7	9.26E-1		1.00E-1		5.44E-4					1.07E-6
G-93-12*	08/03/93 08/03/93	1721 1809	5.48E-4	4.09E-2		6.38E-5	7.71E-4	2.88E-1	3.18E-5	5.48E-3		Xe135m 2.23E-5	5.18E-5	1.21E-4	
G-93-13*	08/06/93 08/06/93	2122 2203		1.51E-4		1.86E-3		2.36E-1			5.34E-8				
G-93-14*	08/11/93 08/11/93	0845 0934	7.19E-4	1.09E-3		1.23E-5		2.74E-1							
G-93-15*	08/28/93 08/28/93	0513 0557	6.64E-4	1.37E-3		2.26E-5		2.43E-1				2.95E-8			

*Gas Decay Tank Releases

Release Number	Start Stop	Start Stop	Xe131m	Xe133	I131	H3	Xe133m	Kr85	Ar41	Xe135	Co60	Cs137	Kr88	Kr85m	I133
G-93-16*	09/24/93 09/24/93	1256 1334	8.48E-4	2.01E-3		1.47E-5		3.07E-1							
G-93-17*	09/24/93 09/24/93	0345 0420	6.18E-4	2.47E-3		9.76E-6		2.49E-1							
G-93-19	10/30/93 10/30/93	0335 1540		9.12E-5		5.14E-5		7.06E-3							
G-93-20*	11/16/93 11/16/93	0210 0256	7.22E-3	5.46E-1		1.93E-4	2.53E-3	2.52E-1		5.59E-5					
G-93-21*	11/16/93 11/16/93	1652 1736	9.20E-3	6.48E-1	1.50E-8	1.96E-4	3.75E-3	3.24E-1		2.71E-4		3.96E-8			
G-93-22*	11/20/93 11/20/93	0036 0115	8.25E-3	2.76E-1		9.32E-5	5.20E-4	2.74E-1							
G-93-23	11/28/93 11/29/93	2040 1424	1.37E+0	6.19E+1	8.93E-6	6.27E-1	3.45E-1	1.72E+1	2.60E-1	2.24E-1	1.58E-5	1.10E-5	1.91E-2	2.02E-2	4.71E-6
G-93-25	12/10/93 12/10/93	1313 1725	3.05E-1	2.13E+1	1.03E-6	9.28E-2	1.29E-1	8.51E+0	4.63E-2	4.25E-2	Kr87 1.13E-3	1.56E-6	5.85E-3	4.46E-3	1.14E-6
G-93-25	cont'd		I132 4.72E-7												
G-93-25A	12/10/93 12/11/93	2052 1203	1.10E+0	7.71E+1	3.73E-6	3.36E-1	4.65E-1	3.08E+1	1.67E-1	1.54E-1	Kr87 4.09E-3	5.63E-6	2.12E-2	1.61E-2	4.13E-6
G-93-25A	cont'd		I132 1.71E-6												
G-93-27*	12/19/93 12/19/93	1500 1547		2.68E-3		9.82E-5	3.40E-5	2.64E-1		1.72E-5					

*Gas Decay Tank Releases

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe	Ar41	Xe133m	Kr85	Kr	Kr88
1-CPR-93-1	01/01/93 01/01/93	1335 1352	1.91E-04	3.58E-02	2.63E-04	1.07E-04	2.67E-04	2.15E-03	2.39E-05	2.39E-05
1-CPR-93-2	01/02/93 01/02/93	0459 0516	2.06E-04	3.86E-02	2.83E-04	1.16E-04	2.87E-04	2.32E-03	2.57E-05	2.57E-05
1-CPR-93-3	01/02/93 01/02/93	1337 1358	2.40E-04	4.51E-02	3.31E-04	1.35E-04	3.36E-04	2.71E-03	3.01E-05	3.01E-05
1-CPR-93-4	01/02/93 01/03/93	2340 0002	2.35E-04	4.41E-02	3.23E-04	1.32E-04	3.28E-04	2.65E-03	2.94E-05	2.94E-05
1-CPR-93-5	01/03/93 01/03/93	1731 1749	2.15E-04	4.02E-02	2.95E-04	1.21E-04	2.99E-04	2.42E-03	2.68E-05	2.68E-05
1-CPR-93-6	01/04/93 01/04/93	0431 0454	2.96E-04	5.54E-02	4.07E-04	1.66E-04	4.13E-04	3.33E-03	3.70E-05	3.70E-05
1-CPR-93-7	01/05/93 01/05/93	1731 1747	2.03E-04	3.81E-02	2.79E-04	1.14E-04	2.83E-04	2.29E-03	2.54E-05	2.54E-05
1-CPR-93-8	01/06/93 01/06/93	1256 1319	2.91E-04	5.46E-02	4.01E-04	1.64E-04	4.07E-04	3.28E-03	3.64E-05	3.64E-05
1-CPR-93-9	01/07/93 01/07/93	0413 0430	1.85E-04	3.46E-02	2.54E-04	1.04E-04	2.58E-04	2.08E-03	2.31E-05	2.31E-05
1-CPR-93-10	01/07/93 01/07/93	1438 1456	2.11E-04	3.96E-02	2.90E-04	1.19E-04	2.95E-04	2.38E-03	2.64E-05	2.64E-05
1-CPR-93-11	01/08/93 01/08/93	1350 1411	6.62E-04	1.24E-02	9.11E-04	3.73E-04	9.25E-04	7.47E-03	8.28E-05	8.28E-05
1-CPR-93-12	01/09/93 01/09/93	1806 1825	2.38E-04	4.45E-02	3.27E-04	1.34E-04	3.32E-04	2.68E-03	2.97E-05	2.97E-05
1-CPR-93-13	01/10/93 01/10/93	1236 1252	1.61E-04	3.01E-02	2.21E-04	9.05E-05	2.24E-04	1.81E-03	2.01E-05	2.01E-05
1-CPR-93-14	01/11/93 01/11/93	0655 0709	1.40E-04	2.62E-02	1.92E-04	7.86E-05	1.95E-04	1.57E-03	1.75E-05	1.75E-05
1-CPR-93-15	01/11/93 01/11/93	1540 1600	2.53E-04	4.75E-02	3.48E-04	1.43E-04	3.54E-04	2.86E-03	3.17E-05	3.17E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-16	01/12/93 01/12/93	0348 0414	2.58E-04	4.83E-02	3.54E-04	1.45E-04	3.60E-04	2.91E-03	3.22E-05	3.22E-05
1-CPR-93-17	01/12/93 01/12/93	1340 1402	2.38E-04	4.46E-02	3.27E-04	1.34E-04	3.32E-04	2.68E-03	2.98E-05	2.98E-05
1-CPR-93-18	01/12/93 01/12/93	2250 2320	3.35E-04	6.27E-02	4.60E-04	1.88E-04	4.67E-04	3.77E-03	4.18E-05	4.18E-05
1-CPR-93-19	01/14/93 01/14/93	1430 1450	2.37E-04	4.44E-02	3.26E-04	1.33E-04	3.31E-04	2.67E-03	2.96E-05	2.96E-05
1-CPR-93-20	01/15/93 01/15/93	0608 0625	2.21E-04	4.15E-02	3.04E-04	1.24E-04	3.09E-04	2.49E-03	2.77E-05	2.77E-05
1-CPR-93-21	01/15/93 01/15/93	1920 1939	2.80E-04	5.25E-02	3.85E-04	1.58E-04	3.91E-04	3.16E-03	3.50E-05	3.50E-05
1-CPR-93-22	01/16/93 01/16/93	0755 0813	2.70E-04	5.07E-02	3.72E-04	1.52E-04	3.77E-04	3.05E-03	3.38E-05	3.38E-05
1-CPR-93-23	01/16/93 01/16/93	1627 1643	3.75E-04	7.03E-02	5.15E-04	2.11E-04	5.23E-04	4.23E-03	4.69E-05	4.69E-05
1-CPR-93-24	01/17/93 01/17/93	0316 0336	2.37E-04	4.44E-02	3.25E-04	1.33E-04	3.30E-04	2.67E-03	2.96E-05	2.96E-05
1-CPR-93-25	01/18/93 01/18/93	2033 2201	2.04E-04	3.81E-02	2.80E-04	1.14E-04	2.84E-04	2.29E-03	2.54E-05	2.54E-05
1-CPR-93-26	01/19/93 01/19/93	0605 0757	2.58E-04	4.84E-02	3.55E-04	1.45E-04	3.60E-04	2.91E-03	3.23E-05	3.23E-05
1-CPR-93-27	01/19/93 01/19/93	1341 1553	2.73E-04	5.12E-02	3.76E-04	1.54E-04	3.81E-04	3.08E-03	3.41E-05	3.41E-05
1-CPR-93-28	01/19/93 01/19/93	2119 2303	2.57E-04	4.82E-02	3.54E-04	1.45E-04	3.59E-04	2.90E-03	3.22E-05	3.22E-05
1-CPR-93-29	01/20/93 01/20/93	0330 0443	1.85E-04	3.46E-02	2.54E-04	1.04E-04	2.58E-04	2.08E-03	2.31E-05	2.31E-05
1-CPR-93-30	01/20/93 01/20/93	0754 0817	2.63E-04	4.92E-02	3.61E-04	1.48E-04	3.66E-04	2.96E-03	3.28E-05	3.28E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135m	Ar41	Xe133m	Kr85	Kr81	Kr88
1-CPR-93-31	01/20/93 01/20/93	1603 1626	2.35E-04	4.41E-02	3.21E-04	1.32E-04	3.28E-04	2.65E-03	2.94E-05	2.94E-05
1-CPR-93-32	01/21/93 01/21/93	0131 0149	2.27E-04	4.26E-02	3.12E-04	1.28E-04	3.17E-04	2.56E-03	2.84E-05	2.84E-05
1-CPR-93-33	01/21/93 01/21/93	0932 0959	2.95E-04	5.53E-02	4.06E-04	1.66E-04	4.12E-04	3.33E-03	3.69E-05	3.69E-05
1-CPR-93-34	01/22/93 01/22/93	0724 0746	5.76E-04	1.08E-01	7.92E-04	3.24E-04	8.04E-04	6.49E-03	7.20E-05	7.20E-05
1-CPR-93-35	01/23/93 01/23/93	1259 1318	1.55E-04	2.91E-02	2.13E-04	8.72E-05	2.16E-04	1.75E-03	1.94E-05	1.94E-05
1-CPR-93-36	01/24/93 01/24/93	0315 0335	1.96E-04	3.68E-02	2.70E-04	1.10E-04	2.74E-04	2.21E-03	2.45E-05	2.45E-05
1-CPR-93-37	01/25/93 01/25/93	1948 2005	1.47E-04	2.75E-02	2.02E-04	8.26E-05	2.05E-04	1.66E-03	1.84E-05	1.84E-05
1-CPR-93-38	01/26/93 01/26/93	0350 0408	1.36E-04	2.56E-02	1.87E-04	7.67E-05	1.90E-04	1.54E-03	1.70E-05	1.70E-05
1-CPR-93-39	01/26/93 01/26/93	1156 1221	2.41E-04	4.53E-02	3.32E-04	1.36E-04	3.37E-04	2.72E-03	3.02E-05	3.02E-05
1-CPR-93-40	01/27/93 01/27/93	1225 1236	1.10E-04	2.07E-02	1.52E-04	6.21E-05	1.54E-04	1.24E-03	1.38E-05	1.38E-05
1-CPR-93-41	01/27/93 01/27/93	1920 1938	1.87E-04	3.50E-02	2.57E-04	1.05E-04	2.61E-04	2.10E-03	2.33E-05	2.33E-05
1-CPR-93-42	01/28/93 01/28/93	0320 0337	1.69E-04	3.18E-02	2.33E-04	9.53E-05	2.37E-04	1.91E-03	2.12E-05	2.12E-05
1-CPR-93-43	01/29/93 01/29/93	1802 1823	1.95E-04	3.66E-02	2.69E-04	1.10E-04	2.73E-04	2.20E-03	2.44E-05	2.44E-05
1-CPR-93-44	01/30/93 01/30/93	0550 0607	1.63E-04	3.06E-02	2.24E-04	9.18E-05	2.28E-04	1.84E-03	2.04E-05	2.04E-05
1-CPR-93-45	01/30/93 01/30/93	1447 1504	1.69E-04	3.18E-02	2.33E-04	9.53E-05	2.37E-04	1.91E-03	2.12E-05	2.12E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-46	01/30/93 01/30/93	2247 2308	1.85E-04	3.46E-02	2.54E-04	1.04E-04	2.58E-04	2.08E-03	2.31E-05	2.31E-05
1-CPR-93-47	01/31/93 01/31/93	0550 0607	1.63E-04	3.05E-02	2.24E-04	9.15E-05	2.27E-04	1.83E-03	2.03E-05	2.03E-05
1-CPR-93-48	02/01/93 02/01/93	1800 1816	2.78E-04	3.41E-02	2.56E-04	1.13E-03	2.63E-04	1.56E-03	2.26E-05	1.88E-05
1-CPR-93-49	02/02/93 02/02/93	0918 0934	2.17E-04	2.65E-02	1.99E-04	8.79E-04	2.05E-04	1.22E-03	1.76E-05	1.47E-05
1-CPR-93-50	02/02/93 02/02/93	1717 1734	2.23E-04	2.73E-02	2.05E-04	9.03E-04	2.11E-04	1.25E-03	1.81E-05	1.51E-05
1-CPR-93-51	02/03/93 02/03/93	0824 0840	2.23E-04	2.73E-02	2.05E-04	9.03E-04	2.11E-04	1.25E-03	1.81E-05	1.51E-05
1-CPR-93-52	02/04/93 02/04/93	0226 0249	3.79E-04	4.64E-02	3.48E-04	1.54E-03	3.58E-04	2.12E-03	3.07E-05	2.56E-05
1-CPR-93-53	02/05/93 02/05/93	0348 0407	2.73E-04	3.34E-02	2.51E-04	1.11E-03	2.58E-04	1.53E-03	2.21E-05	1.85E-05
1-CPR-93-54	02/05/93 02/05/93	1531 1545	2.35E-04	2.87E-02	2.16E-04	9.51E-04	2.22E-04	1.32E-03	1.90E-05	1.59E-05
1-CPR-93-55	02/06/93 02/06/93	1430 1446	2.82E-04	3.45E-02	2.59E-04	1.14E-03	2.67E-04	1.58E-03	2.29E-05	1.91E-05
1-CPR-93-56	02/07/93 02/07/93	0447 0506	4.92E-04	6.02E-02	4.52E-04	2.00E-03	4.66E-04	2.76E-03	3.99E-05	3.33E-05
1-CPR-93-57	02/08/93 02/08/93	0633 0648	2.46E-04	3.01E-02	2.26E-04	9.96E-04	2.32E-04	1.38E-03	1.99E-05	1.66E-05
1-CPR-93-58	02/09/93 02/09/93	0609 0627	3.40E-04	4.16E-02	3.12E-04	1.38E-03	3.21E-04	1.90E-03	2.75E-05	2.30E-05
1-CPR-93-59	02/09/93 02/09/93	2330 2345	2.03E-04	2.48E-02	1.86E-04	8.22E-04	1.92E-04	1.14E-03	1.64E-05	1.37E-05
1-CPR-93-60	02/11/93 02/11/93	0440 0457	3.20E-04	3.92E-02	2.94E-04	1.30E-03	3.03E-04	1.80E-03	2.60E-05	2.17E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr81	Kr88
1-CPR-93-61	02/11/93 02/11/93	1956 2011	2.81E-04	3.44E-02	2.95E-04	1.14E-03	2.66E-04	1.58E-03	2.28E-05	1.90E-05
1-CPR-93-62	02/12/93 02/12/93	0502 0522	3.47E-04	4.25E-02	3.19E-04	1.41E-03	3.28E-04	1.95E-03	2.81E-05	2.35E-05
1-CPR-93-63	01/13/93 01/13/93	0323 0340	5.51E-04	6.74E-02	5.06E-04	2.23E-03	5.21E-04	3.09E-03	4.46E-05	3.72E-05
1-CPR-93-64	02/14/93 02/14/93	0658 0717	3.26E-04	3.99E-02	2.99E-04	1.32E-03	3.08E-04	1.83E-03	2.64E-05	2.20E-05
1-CPR-93-65	02/15/93 02/15/93	1850 1912	3.26E-04	4.00E-02	3.00E-04	1.32E-03	3.09E-04	1.83E-03	2.65E-05	2.21E-05
1-CPR-93-66	02/16/93 02/16/93	0437 0459	3.69E-04	4.51E-02	3.39E-04	1.49E-03	3.49E-04	2.07E-03	2.99E-05	2.49E-05
1-CPR-93-67	02/17/93 02/17/93	1342 1410	6.33E-04	7.75E-02	5.81E-04	2.57E-03	5.99E-04	3.55E-03	5.13E-05	4.28E-05
1-CPR-93-68	02/18/93 02/18/93	1420 1448	3.81E-04	4.67E-02	3.50E-04	1.55E-03	3.61E-04	2.14E-03	3.09E-05	2.58E-05
1-CPR-93-69	02/19/93 02/19/93	1240 1310	4.54E-04	5.56E-02	4.18E-04	1.84E-03	4.30E-04	2.55E-03	3.68E-05	3.07E-05
1-CPR-93-70	02/20/93 02/20/93	0755 0820	4.55E-04	5.57E-02	4.18E-04	1.85E-03	4.31E-04	2.55E-03	3.69E-05	3.08E-05
1-CPR-93-71	02/20/93 02/20/93	2159 2217	3.48E-04	4.26E-02	3.20E-04	1.41E-03	3.29E-04	1.95E-03	2.82E-05	2.35E-05
1-CPR-93-72	02/21/93 02/21/93	0502 0534	6.87E-04	8.41E-02	6.31E-04	2.78E-03	6.50E-04	3.85E-03	5.57E-05	4.64E-05
1-CPR-93-73	02/21/93 02/21/93	1733 1757	5.00E-04	6.12E-02	4.60E-04	2.03E-03	4.73E-04	2.81E-03	4.06E-05	3.38E-05
1-CPR-93-74	02/23/93 02/23/93	2032 2055	4.66E-04	5.71E-02	4.28E-04	1.89E-03	4.41E-04	2.61E-03	3.78E-05	3.15E-05
1-CPR-93-75	02/25/93 02/25/93	1057 1134	9.18E-04	1.12E-01	8.43E-04	3.72E-03	8.68E-04	5.15E-03	7.44E-05	6.20E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-76	02/26/93 02/26/93	2241 2304	8.29E-04	1.01E-01	7.62E-04	3.36E-03	7.84E-04	4.65E-03	6.72E-05	5.60E-05
1-CPR-93-77	02/27/93 02/27/93	1752 1817	5.08E-04	6.22E-02	4.67E-04	2.06E-03	4.81E-04	2.85E-03	4.12E-05	3.44E-05
1-CPR-93-78	02/28/93 02/28/93	1501 1532	7.70E-04	9.42E-02	7.07E-04	3.12E-03	7.28E-04	4.32E-03	6.24E-05	5.20E-05
1-CPR-93-79	03/01/93 03/01/93	0630 0654	7.88E-04	7.45E-02	5.20E-04	2.37E-03	5.95E-04	4.89E-03	5.03E-05	3.35E-05
1-CPR-93-80	03/02/93 03/02/93	0024 0050	8.07E-04	7.63E-02	5.32E-04	2.43E-03	6.09E-04	5.01E-03	5.15E-05	3.43E-05
1-CPR-93-81	03/02/93 03/02/93	1636 1704	9.05E-04	8.57E-02	5.97E-04	2.73E-03	6.84E-04	5.62E-03	5.78E-05	3.85E-05
1-CPR-93-82	03/03/93 03/03/93	1614 1640	7.65E-04	7.24E-02	5.05E-04	2.30E-03	5.78E-04	4.75E-03	4.88E-05	3.26E-05
1-CPR-93-83	03/04/93 03/04/93	1007 1029	2.14E-03	2.03E-01	1.41E-03	6.45E-03	1.62E-03	1.33E-02	1.37E-04	9.12E-05
1-CPR-93-84	03/05/93 03/05/93	0732 0751	5.32E-04	5.04E-02	3.51E-04	1.60E-03	4.02E-04	3.31E-03	3.40E-05	2.26E-05
1-CPR-93-85	03/06/93 03/06/93	0154 0219	7.80E-04	7.38E-02	5.15E-04	2.35E-03	5.89E-04	4.85E-03	4.98E-05	3.32E-05
1-CPR-93-86	03/07/93 03/07/93	0159 0224	8.87E-04	8.40E-02	5.85E-04	2.67E-03	6.70E-04	5.51E-03	5.66E-05	3.78E-05
1-CPR-93-87	03/07/93 03/07/93	1454 1516	6.90E-04	6.53E-02	4.55E-04	2.08E-03	5.21E-04	4.29E-03	4.40E-05	2.94E-05
1-CPR-93-88	03/08/93 03/08/93	0547 0616	1.05E-03	9.96E-02	6.94E-04	3.17E-03	7.95E-04	6.54E-03	6.72E-05	4.48E-05
1-CPR-93-89	03/09/93 03/09/93	1912 1935	6.70E-04	6.34E-02	4.42E-04	2.02E-03	5.06E-04	4.16E-03	4.28E-05	2.85E-05
1-CPR-93-90	03/10/93 03/10/93	0432 0500	1.08E-03	1.02E-01	7.13E-04	3.25E-03	8.17E-04	6.72E-03	6.90E-05	4.60E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135m	Ar41	Xe133m	Kr85	Kr81	Kr88
1-CPR-93-91	03/12/93 03/12/93	0212 0230	5.72E-04	5.41E-02	3.75E-04	1.72E-03	4.32E-04	3.55E-03	3.65E-05	2.43E-05
1-CPR-93-92	03/12/93 03/12/93	1731 1752	7.78E-04	7.37E-02	5.13E-04	2.34E-03	5.88E-04	4.84E-03	4.97E-05	3.31E-05
1-CPR-93-93	03/13/93 03/13/93	0449 0508	7.13E-04	6.75E-02	4.71E-04	2.15E-03	5.39E-04	4.43E-03	4.55E-05	3.04E-05
1-CPR-93-94	03/13/93 03/13/93	2034 2052	7.15E-04	6.77E-02	4.72E-04	2.15E-03	5.40E-04	4.44E-03	4.57E-05	3.04E-05
1-CPR-93-95	03/15/93 03/15/93	0940 1006	1.08E-03	1.02E-01	7.13E-04	3.25E-03	8.17E-04	6.72E-03	6.90E-05	4.60E-05
1-CPR-93-96	03/16/93 03/16/93	0130 0150	7.85E-04	7.43E-02	5.18E-04	2.36E-03	5.93E-04	4.88E-03	5.01E-05	3.34E-05
1-CPR-93-97	03/18/93 03/18/93	1342 1404	1.12E-03	1.06E-01	7.38E-04	3.37E-03	8.45E-04	6.95E-03	7.14E-05	4.76E-05
1-CPR-93-98	03/19/93 03/19/93	0338 0400	7.96E-04	7.53E-02	5.25E-04	2.40E-03	6.01E-04	4.95E-03	5.08E-05	3.39E-05
1-CPR-93-99	03/19/93 03/19/93	1654 1719	1.03E-03	9.79E-02	6.82E-04	3.11E-03	7.81E-04	6.42E-03	6.60E-05	4.40E-05
1-CPR-93-100	03/20/93 03/20/93	1609 1633	8.87E-04	8.40E-02	5.85E-04	2.67E-03	6.70E-04	5.51E-03	5.66E-05	3.78E-05
1-CPR-93-101	03/21/93 03/21/93	1741 1802	7.94E-04	7.52E-02	5.24E-04	2.39E-03	6.00E-04	4.93E-03	5.07E-05	3.38E-05
1-CPR-93-102	03/22/93 03/22/93	1506 1528	7.38E-04	6.98E-02	4.87E-04	2.22E-03	5.57E-04	4.58E-03	4.71E-05	3.14E-05
1-CPR-93-103	03/23/93 03/23/93	0040 0105	8.91E-04	8.43E-02	5.88E-04	2.68E-03	6.73E-04	5.54E-03	5.69E-05	3.79E-05
1-CPR-93-104	03/23/93 03/23/93	2240 2302	8.77E-04	8.30E-02	5.78E-04	2.64E-04	6.62E-04	5.45E-03	5.60E-05	3.73E-05
1-CPR-93-105	03/25/93 03/25/93	0010 0034	9.33E-04	8.83E-02	6.16E-04	2.81E-03	7.05E-04	5.80E-03	5.96E-05	3.97E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-106	03/25/93 03/25/93	2207 2229	7.41E-04	7.01E-02	4.89E-04	2.23E-03	5.59E-04	4.60E-03	4.73E-05	3.15E-05
1-CPR-93-107	03/26/93 03/26/93	1535 1604	1.04E-03	9.87E-02	6.88E-04	3.14E-03	7.88E-04	6.48E-03	6.66E-05	4.44E-05
1-CPR-93-108	03/27/93 03/27/93	1334 1400	1.01E-03	9.52E-02	6.63E-04	3.03E-03	7.60E-04	6.25E-03	6.42E-05	4.28E-05
1-CPR-93-109	03/28/93 03/28/93	0848 0910	8.53E-04	8.07E-02	5.62E-04	2.57E-03	6.44E-04	5.30E-03	5.44E-05	3.63E-05
1-CPR-93-110	03/29/93 03/29/93	0205 0225	7.10E-04	6.72E-02	4.68E-04	2.14E-03	5.36E-04	4.41E-03	4.53E-05	3.02E-05
1-CPR-93-111	03/29/93 03/29/93	2030 2053	8.10E-04	7.67E-02	5.34E-04	2.44E-03	6.12E-04	5.03E-03	5.17E-05	3.45E-05
1-CPR-93-112	03/30/93 03/30/93	1442 1503	7.15E-04	6.77E-02	4.72E-04	2.15E-03	5.40E-04	4.44E-03	4.57E-05	3.04E-05
1-CPR-93-113	03/31/93 03/31/93	0226 0250	8.54E-04	8.09E-02	5.64E-04	2.57E-03	6.45E-04	5.31E-03	5.45E-05	3.64E-05
1-CPR-93-114	03/31/93 03/31/93	1451 1517	8.61E-04	8.15E-02	5.68E-04	2.59E-03	6.50E-04	5.35E-03	5.50E-05	3.66E-05
1-CPR-93-115	04/02/93 04/02/93	0450 0518	9.68E-04	9.16E-02	6.39E-04	2.91E-03	7.31E-04	6.02E-03	6.18E-05	4.12E-05
1-CPR-93-116	04/03/93 04/03/93	1540 1557	5.98E-04	5.66E-02	3.94E-04	1.80E-03	4.52E-04	3.71E-03	3.82E-05	2.54E-05
1-CPR-93-117	04/04/93 04/04/93	1247 1315	1.04E-03	9.87E-02	6.88E-04	3.14E-03	7.88E-04	6.48E-03	6.66E-05	4.44E-05
1-CPR-93-118	04/05/93 04/05/93	0737 0809	1.17E-03	1.10E-01	7.69E-04	3.51E-03	8.80E-04	7.24E-03	7.44E-05	4.96E-05
1-CPR-93-119	04/06/93 04/06/93	1320 1351	1.15E-03	1.09E-01	7.56E-04	3.45E-03	8.66E-04	7.12E-03	7.32E-05	4.88E-05
1-CPR-93-120	04/07/93 04/07/93	1459 1529	8.77E-04	8.30E-02	5.78E-04	2.64E-03	6.62E-04	5.45E-03	5.60E-05	3.73E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr87	Kr88
1-CPR-93-121	04/08/93 04/08/93	0741 0803	9.78E-04	9.25E-02	6.4E-04	2.94E-03	7.38E-04	6.07E-03	6.24E-05	4.16E-05
1-CPR-93-122	04/08/93 04/08/93	2228 2255	7.58E-04	7.17E-02	5.00E-04	2.28E-03	5.72E-04	4.71E-03	4.84E-05	3.22E-05
1-CPR-93-123	04/09/93 04/09/93	1835 1857	6.51E-04	6.16E-02	4.30E-04	1.96E-03	4.92E-04	4.05E-03	4.16E-05	2.77E-05
1-CPR-93-124	04/10/93 04/11/93	2338 0017	1.08E-03	1.02E-01	7.13E-04	3.25E-03	8.17E-04	6.72E-03	6.90E-05	4.60E-05
1-CPR-93-125	04/13/93 04/13/93	0225 0244	1.22E-03	1.16E-01	8.06E-04	3.68E-03	9.23E-04	7.59E-03	7.80E-05	5.20E-05
1-CPR-93-126	04/13/93 04/13/93	1730 1757	8.85E-04	8.37E-02	5.83E-04	2.66E-03	6.68E-04	5.50E-03	5.65E-05	3.76E-05
1-CPR-93-127	04/14/93 04/14/93	1050 1120	9.07E-04	8.58E-02	5.98E-04	2.73E-03	6.85E-04	5.64E-03	5.79E-05	3.86E-05
1-CPR-93-128	04/15/93 04/15/93	0225 0250	7.68E-04	7.27E-02	5.07E-04	2.31E-03	5.80E-04	4.77E-03	4.90E-05	3.27E-05
1-CPR-93-129	04/15/93 04/15/93	1414 1438	7.16E-04	6.78E-02	4.72E-04	2.16E-03	5.41E-04	4.45E-03	4.57E-05	3.05E-05
1-CPR-93-130	04/17/93 04/17/93	1938 1956	5.41E-04	5.12E-02	3.57E-04	1.63E-03	4.08E-04	3.36E-03	3.45E-05	2.30E-05
1-CPR-93-131	04/18/93 04/18/93	1431 1453	6.57E-04	6.22E-02	4.33E-04	1.98E-03	4.96E-04	4.08E-03	4.19E-05	2.80E-05
1-CPR-93-132	04/19/93 04/19/93	0605 0626	6.60E-04	6.24E-02	4.35E-04	1.99E-03	4.98E-04	4.10E-03	4.21E-05	2.81E-05
1-CPR-93-133	04/19/93 04/19/93	1552 1613	8.63E-04	8.17E-02	5.69E-04	2.60E-03	6.52E-04	5.36E-03	5.51E-05	3.67E-05
1-CPR-93-134	04/20/93 04/20/93	0220 0239	6.59E-04	6.24E-02	4.35E-04	1.98E-03	4.98E-04	4.09E-03	4.21E-05	2.80E-05
1-CPR-93-135	04/21/93 04/22/93	2355 0012	8.84E-04	8.36E-02	5.83E-04	2.66E-03	6.67E-04	5.49E-03	5.64E-05	3.76E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-136	04/22/93 04/22/93	1440 1500	7.42E-04	7.02E-02	4.89E-04	2.23E-03	5.60E-04	4.61E-03	4.73E-05	3.16E-05
1-CPR-93-137	04/23/93 04/23/93	1227 1247	6.76E-04	6.40E-02	4.46E-04	2.03E-03	5.10E-04	4.20E-03	4.31E-05	2.88E-05
1-CPR-93-138	04/23/93 04/23/93	2252 2322	8.45E-04	8.00E-02	5.57E-04	2.54E-03	6.38E-04	5.25E-03	5.39E-05	3.60E-05
1-CPR-93-139	04/24/93 04/24/93	1558 1623	1.11E-03	1.05E-01	7.32E-04	3.34E-03	8.38E-04	6.89E-03	7.08E-05	4.72E-05
1-CPR-93-140	04/26/93 04/26/93	2110 2132	7.19E-04	6.81E-02	4.74E-04	2.16E-03	5.43E-04	4.47E-03	4.59E-05	3.06E-05
1-CPR-93-141	04/27/93 04/27/93	1554 1619	9.40E-04	8.90E-02	6.20E-04	2.83E-03	7.10E-04	5.84E-03	6.00E-05	4.00E-05
1-CPR-93-142	04/28/93 04/28/93	1114 1137	8.03E-04	7.60E-02	5.29E-04	2.42E-03	6.06E-04	4.99E-03	5.12E-05	3.42E-05
1-CPR-93-143	04/29/93 04/29/93	0259 0325	8.61E-04	8.15E-02	5.68E-04	2.59E-03	6.50E-04	5.35E-03	5.50E-05	3.66E-05
1-CPR-93-144	04/30/93 04/30/93	0031 0048	5.48E-04	5.19E-02	3.61E-04	1.65E-03	4.14E-04	3.40E-03	3.50E-05	2.33E-05
1-CPR-93-145	05/01/93 05/01/93	0213 0237	7.48E-04	7.08E-02	4.94E-04	2.25E-03	5.65E-04	4.65E-03	4.78E-05	3.18E-05
1-CPR-93-146	05/01/93 05/01/93	2235 2302	8.21E-04	7.77E-02	5.41E-04	2.47E-03	6.20E-04	5.10E-03	5.24E-05	3.49E-05
1-CPR-93-147	05/02/93 05/02/93	1536 1600	7.48E-04	7.08E-02	4.94E-04	2.25E-03	5.65E-04	4.65E-03	4.78E-05	3.18E-05
1-CPR-93-148	05/03/93 05/03/93	1252 1315	7.01E-04	6.64E-02	4.63E-04	2.11E-03	5.30E-04	4.36E-03	4.48E-05	2.98E-05
1-CPR-93-149	05/04/93 05/04/93	0427 0453	8.06E-04	7.62E-02	5.31E-04	2.43E-03	6.08E-04	5.00E-03	5.14E-05	3.43E-05
1-CPR-93-150	05/05/93 05/05/93	2136 2159	7.54E-04	7.13E-02	4.97E-04	2.27E-03	5.69E-04	4.68E-03	4.81E-05	3.21E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr87	Kr88
1-CPR-93-151	05/06/93 05/06/93	1745 1809	7.27E-04	6.88E-02	4.77E-04	2.19E-03	5.49E-04	4.51E-03	4.67E-05	3.09E-05
1-CPR-93-152	05/07/93 05/07/93	1334 1358	8.13E-04	7.70E-02	5.36E-04	2.45E-03	6.14E-04	5.05E-03	5.19E-05	3.46E-05
1-CPR-93-153	05/08/93 05/08/93	1316 1341	7.50E-04	7.10E-02	4.95E-04	2.26E-03	5.67E-04	4.66E-03	4.79E-05	3.19E-05
1-CPR-93-154	05/09/93 05/09/93	1227 1245	5.75E-04	5.44E-02	3.79E-04	1.73E-03	4.35E-04	3.57E-03	3.67E-05	2.45E-05
1-CPR-93-155	05/10/93 05/10/93	0948 1024	1.26E-03	1.19E-01	8.31E-04	3.79E-03	9.51E-04	7.83E-03	8.04E-05	5.36E-05
1-CPR-93-156	05/11/93 05/11/93	1526 1600	1.17E-03	1.10E-01	7.69E-04	3.51E-03	8.80E-04	7.24E-03	7.44E-05	4.96E-05
1-CPR-93-157	05/12/93 05/12/93	0633 0658	9.39E-04	8.89E-02	6.19E-04	2.83E-03	7.09E-04	5.83E-03	5.99E-05	4.00E-05
1-CPR-93-158	05/13/93 05/13/93	1615 1633	6.69E-04	6.33E-02	4.41E-04	2.01E-03	5.06E-04	4.16E-03	4.27E-05	2.85E-05
1-CPR-93-159	05/14/93 05/14/93	0519 0540	8.07E-04	7.64E-02	5.33E-04	2.43E-03	6.10E-04	5.02E-03	5.15E-05	3.44E-05
1-CPR-93-160	05/14/93 05/14/93	1843 1909	1.02E-03	9.70E-02	6.76E-04	3.08E-03	7.74E-04	6.37E-03	6.54E-05	4.36E-05
1-CPR-93-161	05/16/93 05/16/93	0846 0906	8.05E-04	7.61E-02	5.31E-04	2.42E-03	6.08E-04	5.00E-03	5.14E-05	3.42E-05
1-CPR-93-162	05/17/93 05/17/93	1410 1429	7.69E-04	7.28E-02	5.07E-04	2.31E-03	5.81E-04	4.78E-03	4.91E-05	3.27E-05
1-CPR-93-163	05/18/93 05/18/93	0314 0338	1.09E-03	1.03E-01	7.19E-04	3.28E-03	8.24E-04	6.77E-03	6.96E-05	4.64E-05
1-CPR-93-164	05/19/93 05/19/93	1422 1441	1.02E-03	9.61E-02	6.70E-04	3.06E-03	7.67E-04	6.31E-03	6.48E-05	4.32E-05
1-CPR-93-165	05/20/93 05/20/93	1340 1413	1.62E-03	1.53E-01	1.07E-03	4.87E-03	1.22E-03	1.00E-02	1.03E-04	6.88E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-166	05/22/93 05/22/93	1239 1307	2.12E-03	2.00E-01	1.40E-03	6.37E-03	1.60E-03	1.31E-02	1.35E-04	9.00E-05
1-CPR-93-167	05/23/93 05/23/93	0952 1021	3.16E-03	2.99E-01	2.08E-03	9.51E-03	2.39E-03	1.96E-02	2.02E-04	1.34E-04
1-CPR-93-168	05/26/93 05/26/93	0155 0218	1.73E-03	1.64E-01	1.14E-03	5.21E-03	1.31E-03	1.07E-02	1.10E-04	7.36E-05
1-CPR-93-169	05/27/93 05/27/93	0114 0132	1.36E-03	1.29E-01	8.99E-04	4.10E-03	1.03E-03	8.47E-03	8.70E-05	5.80E-05
1-CPR-93-170	05/27/93 05/27/93	1628 1648	1.57E-03	1.49E-01	1.04E-03	4.73E-03	1.19E-03	9.75E-03	1.00E-04	6.68E-05
1-CPR-93-171	05/30/93 05/30/93	0833 0855	1.61E-03	1.52E-01	1.06E-03	4.84E-03	1.21E-03	9.99E-03	1.03E-04	6.84E-05
1-CPR-93-172	05/30/93 05/30/93	1912 1930	1.40E-03	1.33E-01	9.24E-04	4.22E-03	1.06E-03	8.70E-03	8.94E-05	5.96E-05
1-CPR-93-173	06/01/93 06/01/93	2322 2338	1.37E-03	1.30E-01	9.05E-04	4.13E-03	1.04E-03	8.53E-03	8.76E-05	5.84E-05
1-CPR-93-174	06/03/93 06/03/93	1413 1436	1.90E-03	1.80E-01	1.25E-03	5.72E-03	1.43E-03	1.18E-02	1.21E-04	8.08E-05
1-CPR-93-175	06/04/93 06/04/93	1614 1632	1.32E-03	1.25E-01	8.68E-04	3.96E-03	9.94E-04	8.18E-03	8.40E-05	5.60E-05
1-CPR-93-176	06/06/93 06/06/93	0715 0727	6.95E-04	6.57E-02	4.58E-04	2.09E-03	5.25E-04	4.32E-03	4.43E-05	2.96E-05
1-CPR-93-177	06/07/93 06/07/93	0238 0255	1.47E-03	1.39E-01	9.67E-04	4.41E-03	1.11E-03	9.11E-03	9.36E-05	6.24E-05
1-CPR-93-178	06/07/93 06/07/93	1753 1816	1.92E-03	1.81E-01	1.26E-03	5.77E-03	1.45E-03	1.19E-02	1.22E-04	8.16E-05
1-CPR-93-179	06/08/93 06/08/93	1650 1710	1.59E-03	1.50E-01	1.05E-03	4.78E-03	1.20E-03	9.87E-03	1.01E-04	6.76E-05
1-CPR-93-180	06/09/93 06/09/93	2135 2154	1.78E-03	1.68E-01	1.17E-03	5.35E-03	1.34E-03	1.10E-02	1.13E-04	7.56E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr81	Kr88
1-CPR-93-181	06/11/93 06/11/93	1320 1335	1.43E-03	1.35E-01	9.4E-04	4.30E-03	1.08E-03	8.88E-03	9.12E-05	6.08E-05
1-CPR-93-182	06/12/93 06/12/93	1300 1318	1.33E-03	1.25E-01	8.74E-04	3.99E-03	1.00E-03	8.23E-03	8.46E-05	5.64E-05
1-CPR-93-183	06/13/93 06/13/93	0857 0911	1.08E-03	1.02E-01	7.13E-04	3.25E-03	8.17E-04	6.72E-03	6.90E-05	4.60E-05
1-CPR-93-184	06/14/93 06/14/93	0100 0120	1.57E-03	1.49E-01	1.04E-03	4.73E-03	1.19E-03	9.75E-03	1.00E-04	6.68E-05
1-CPR-93-185	06/14/93 06/14/93	1852 1908	1.18E-03	1.12E-01	7.81E-04	3.57E-03	8.95E-04	7.36E-03	7.56E-05	5.04E-05
1-CPR-93-186	06/16/93 06/16/93	1707 1726	1.52E-03	1.44E-01	1.00E-03	4.58E-03	1.15E-03	9.46E-03	9.72E-05	6.48E-05
1-CPR-93-187	06/17/93 06/17/93	1730 1747	1.28E-03	1.21E-01	8.43E-04	3.85E-03	9.66E-04	7.49E-03	8.16E-05	5.44E-05
1-CPR-93-188	06/19/93 06/19/93	0908 0926	1.78E-03	1.68E-01	1.17E-03	5.35E-03	1.34E-03	1.10E-02	1.13E-04	7.56E-05
1-CPR-93-189	06/20/93 06/20/93	1340 1356	1.16E-03	1.09E-01	7.63E-04	3.48E-03	8.73E-04	7.18E-03	7.38E-05	4.92E-05
1-CPR-93-190	06/22/93 06/22/93	0405 0417	9.23E-04	8.74E-02	6.09E-04	2.78E-03	6.97E-04	5.73E-03	5.89E-05	3.93E-05
1-CPR-93-191	06/24/93 06/24/93	1238 1301	1.90E-03	1.80E-01	1.25E-03	5.72E-03	1.43E-03	1.18E-02	1.21E-04	8.08E-05
1-CPR-93-192	06/26/93 06/26/93	1520 1547	2.47E-03	2.34E-01	1.63E-03	7.44E-03	1.87E-03	1.54E-02	1.58E-04	1.05E-04
1-CPR-93-193	07/01/93 07/01/93	1527 1547	4.77E-03	2.56E-01	7.50E-04	3.72E-03	1.56E-03	3.28E-02	6.00E-05	3.00E-05
1-CPR-93-194	07/03/93 07/03/93	1855 1926	4.74E-03	2.55E-01	7.45E-04	3.70E-03	1.55E-03	3.26E-02	5.96E-05	2.98E-05
1-CPR-93-195	07/05/93 07/05/93	1620 1642	4.42E-03	2.37E-01	6.95E-04	3.45E-03	1.45E-03	3.04E-02	5.56E-05	2.78E-05

Release Number	Start Stop	Start Stop	Xel31m	Xel33	Xel35	Ar41	Xel33m	Kr85	Kr85m	Kr88
1-CPR-93-196	07/07/93 07/07/93	1839 1905	5.57E-03	2.99E-01	8.75E-04	4.34E-03	1.82E-03	3.83E-02	7.00E-05	3.50E-05
1-CPR-93-197	07/10/93 07/10/93	2337 2359	4.63E-03	2.49E-01	7.28E-04	3.61E-03	1.51E-03	3.18E-02	5.82E-05	2.91E-05
1-CPR-93-198	07/13/93 07/13/93	1834 1858	4.94E-03	2.66E-01	7.78E-04	3.86E-03	1.62E-03	3.40E-02	6.22E-05	3.11E-05
1-CPR-93-199	07/16/93 07/17/93	2358 0019	4.21E-03	2.26E-01	6.63E-04	3.29E-03	1.38E-03	2.90E-02	5.30E-05	2.65E-05
1-CPR-93-200	07/18/93 07/18/93	1609 1638	5.68E-03	3.05E-01	8.93E-04	4.43E-03	1.86E-03	3.91E-02	7.14E-05	3.57E-05
1-CPR-93-201	07/21/93 07/21/93	1110 1141	6.03E-03	3.24E-01	9.48E-04	4.70E-03	1.97E-03	4.15E-02	7.58E-05	3.79E-05
1-CPR-93-202	07/23/93 07/23/93	1809 1833	4.55E-03	2.44E-01	7.15E-04	3.55E-03	1.49E-03	3.13E-02	5.72E-05	2.86E-05
1-CPR-93-203	07/25/93 07/25/93	1145 1208	4.26E-03	2.29E-01	6.70E-04	3.32E-03	1.39E-03	2.93E-02	5.36E-05	2.68E-05
1-CPR-93-204	07/27/93 07/27/93	1942 2000	3.35E-03	1.80E-01	5.28E-04	2.62E-03	1.10E-03	2.31E-02	4.22E-05	2.11E-05
1-CPR-93-205	07/28/93 07/28/93	0507 0527	3.96E-03	2.13E-01	6.23E-04	3.09E-03	1.29E-03	2.72E-02	4.98E-05	2.49E-05
1-CPR-93-206	07/31/93 07/31/93	1613 1637	5.18E-03	2.79E-01	8.15E-04	4.04E-03	1.70E-03	3.57E-02	6.52E-05	3.26E-05
1-CPR-93-207	08/02/93 08/02/93	0542 0601	3.96E-03	2.13E-01	6.23E-04	3.09E-03	1.29E-03	2.72E-02	4.98E-05	2.49E-05
1-CPR-93-208	08/05/93 08/05/93	1916 1938	4.48E-03	2.41E-01	7.05E-04	3.50E-03	1.47E-03	3.09E-02	5.64E-05	2.82E-05
1-CPR-93-209	08/09/93 08/09/93	1612 1634	5.01E-03	2.69E-01	7.88E-04	3.91E-03	1.64E-03	3.45E-02	6.30E-05	3.15E-05
1-CPR-93-210	08/11/93 08/11/93	1528 1550	4.99E-03	2.68E-01	7.85E-04	3.89E-03	1.63E-03	3.44E-02	6.28E-05	3.14E-05

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135m	Ar41	Xe133m	Kr85	Kr81	Kr88
1-CPR-93-211	08/12/93 08/12/93	1932 1955	4.77E-03	2.56E-01	7.95E-04	3.72E-03	1.56E-03	3.28E-02	6.06E-05	3.00E-05
1-CPR-93-212	08/15/93 08/15/93	0345 0409	4.82E-03	2.59E-01	7.58E-04	3.76E-03	1.58E-03	3.31E-02	6.06E-05	3.03E-05
1-CPR-93-213	08/18/93 08/18/93	1545 1609	5.37E-03	2.89E-01	8.45E-04	4.19E-03	1.76E-03	3.70E-02	6.76E-05	3.38E-05
1-CPR-93-214	08/20/93 08/20/93	0210 0232	4.85E-03	2.61E-01	7.63E-04	3.78E-03	1.59E-03	3.34E-02	6.10E-05	3.05E-05
1-CPR-93-215	08/22/93 08/22/93	1309 1332	4.96E-03	2.67E-01	7.80E-04	3.87E-03	1.62E-03	3.41E-02	6.24E-05	3.12E-05
1-CPR-93-216	08/23/93 08/23/93	1440 1500	4.07E-03	2.19E-01	6.40E-04	3.17E-03	1.33E-03	2.80E-02	5.12E-05	2.56E-05
1-CPR-93-217	08/26/93 08/26/93	1440 1503	4.08E-03	2.58E-01	7.55E-04	3.74E-03	1.57E-03	3.30E-02	6.04E-05	3.02E-05
1-CPR-93-218	08/27/93 08/27/93	1933 1956	5.14E-03	2.76E-01	8.08E-04	4.01E-03	1.68E-03	3.53E-02	6.46E-05	3.23E-05
1-CPR-93-219	08/30/93 08/30/93	1530 1549	5.22E-03	2.80E-01	8.20E-04	4.07E-03	1.71E-03	3.59E-02	6.56E-05	3.28E-05
1-CPR-93-220	09/02/93 09/02/93	1019 1037	5.60E-03	3.01E-01	8.80E-04	4.36E-03	1.83E-03	3.85E-02	7.04E-05	3.52E-05
1-CPR-93-221	09/04/93 09/04/93	1440 1456	5.10E-03	2.74E-01	8.03E-04	3.98E-03	1.67E-03	3.51E-02	6.42E-05	3.21E-05
1-CPR-93-222	09/08/93 09/08/93	0037 0053	5.02E-03	2.70E-01	7.90E-04	3.92E-03	1.64E-03	3.46E-02	6.32E-05	3.16E-05
1-CPR-93-223	09/09/93 09/09/93	0313 0330	5.29E-03	2.84E-01	8.33E-04	4.13E-03	1.73E-03	3.64E-02	6.66E-05	3.33E-05
1-CPR-93-224	09/11/93 09/11/93	2048 2107	6.65E-03	3.57E-01	1.05E-03	5.18E-03	2.17E-03	4.57E-02	8.36E-05	4.18E-05
1-CPR-93-225	09/14/93 09/14/93	0218 0237	6.65E-03	3.57E-01	1.05E-03	5.18E-03	2.17E-03	4.57E-02	8.36E-05	4.18E-05




Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-226	09/16/93 09/16/93	1930 2007	9.19E-03	4.94E-01	1.45E-03	7.17E-03	3.01E-03	6.32E-02	1.16E-04	5.78E-05
1-CPR-93-227	09/19/93 09/19/93	1959 2017	6.20E-03	3.33E-01	9.75E-04	4.84E-03	2.03E-03	4.27E-02	7.80E-05	3.90E-05
1-CPR-93-228	09/22/93 09/22/93	1440 1456	5.99E-03	3.22E-01	9.43E-04	4.67E-03	1.96E-03	4.12E-02	7.54E-05	3.77E-05
1-CPR-93-229	09/24/93 09/24/93	1942 1958	4.52E-03	2.43E-01	7.10E-04	3.52E-03	1.48E-03	3.11E-02	5.68E-05	2.84E-05
1-CPR-93-230	09/25/93 09/25/93	1302 1322	5.76E-03	3.09E-01	9.05E-04	4.49E-03	1.88E-03	3.96E-02	7.24E-05	3.62E-05
1-CPR-93-231	09/27/93 09/27/93	1232 1247	3.58E-03	1.92E-01	5.63E-04	2.79E-03	1.17E-03	2.46E-02	4.50E-05	2.25E-05
1-CPR-93-232	09/30/93 09/30/93	1453 1507	4.09E-03	2.20E-01	6.43E-04	3.19E-03	1.34E-03	2.81E-02	5.14E-05	2.57E-05
1-CPR-93-233	10/01/93 10/01/93	0307 0324	5.43E-03	2.87E-01	4.72E-04	1.99E-03	1.48E-03	4.05E-02	3.37E-05	
1-CPR-93-234	10/03/93 10/03/93	1105 1121	4.86E-03	2.57E-01	4.23E-04	1.78E-03	1.33E-03	3.63E-02	3.02E-05	
1-CPR-93-235	10/06/93 10/06/93	1150 1210	5.92E-03	3.13E-01	5.15E-04	2.17E-03	1.62E-03	4.42E-02	3.68E-05	
1-CPR-93-236	10/07/93 10/07/93	1458 1520	6.84E-03	3.62E-01	5.95E-04	2.51E-03	1.87E-03	5.10E-02	4.25E-05	
1-CPR-93-237	10/08/93 10/08/93	1602 1626	6.60E-03	3.49E-01	5.74E-04	2.42E-03	1.80E-03	4.92E-02	4.10E-05	
1-CPR-93-238	10/11/93 10/11/93	1212 1236	6.68E-03	3.54E-01	5.81E-04	2.45E-03	1.83E-03	4.98E-02	4.15E-05	
1-CPR-93-239	10/14/93 10/14/93	1526 1550	5.70E-03	3.02E-01	4.96E-04	2.09E-03	1.56E-03	4.25E-02	3.54E-05	
1-CPR-93-240	10/15/93 10/15/93	1954 2015	4.54E-03	2.40E-01	3.95E-04	1.66E-03	1.24E-03	3.39E-02	2.82E-05	

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr87	Kr88
1-CPR-93-241	10/16/93 10/16/93	1943 2010	5.68E-03	3.01E-01	4.94E-04	2.08E-03	1.55E-03	4.24E-02	3.53E-05	
1-CPR-93-242	10/20/93 10/20/93	1010 1037	3.70E-03	1.96E-01	3.22E-04	1.36E-03	1.01E-03	2.76E-02	2.30E-05	
1-CPR-93-243	10/23/93 10/23/93	1317 1337	4.72E-03	2.50E-01	4.10E-04	1.73E-03	1.29E-03	3.52E-02	2.93E-05	
1-CPR-93-244	10/24/93 10/24/93	1226 1255	6.50E-03	3.44E-01	5.66E-04	2.38E-03	1.78E-03	4.85E-02	4.04E-05	
1-CPR-93-245	10/26/93 10/26/93	0528 0543	3.28E-03	1.74E-01	2.86E-04	1.20E-03	8.98E-04	2.45E-02	2.04E-05	
1-CPR-93-246	10/27/93 10/27/93	1613 1630	2.79E-03	1.47E-01	2.42E-04	1.02E-03	7.61E-04	2.08E-02	1.73E-05	
1-CPR-93-247	10/28/93 10/28/93	0525 0540	2.21E-03	1.17E-01	1.92E-04	8.08E-04	6.03E-04	1.65E-02	1.37E-05	
1-CPR-93-248	10/31/93 10/31/93	0808 0823	3.03E-03	1.60E-01	2.63E-04	1.11E-03	8.27E-04	2.26E-02	1.88E-05	
1-CPR-93-249	11/02/93 11/02/93	1559 1612	2.27E-03	1.20E-01	1.97E-04	8.32E-04	6.20E-04	1.69E-02	1.41E-05	
1-CPR-93-250	11/03/93 11/03/93	1248 1304	3.20E-03	1.70E-01	2.79E-04	1.17E-03	8.76E-04	2.39E-02	1.99E-05	
1-CPR-93-251	11/04/93 11/04/93	1202 1217	2.16E-03	1.14E-01	1.88E-04	7.91E-04	5.90E-04	1.61E-02	1.34E-05	
1-CPR-93-252	11/05/93 11/05/93	0317 0337	3.03E-03	1.60E-01	2.63E-04	1.11E-03	8.27E-04	2.26E-02	1.88E-05	
1-CPR-93-253	11/09/93 11/09/93	1715 1734	2.72E-03	1.44E-01	2.37E-04	9.97E-04	7.44E-04	2.03E-02	1.69E-05	
1-CPR-93-254	11/10/93 11/10/93	2319 2338	2.62E-03	1.39E-01	2.28E-04	9.62E-04	7.17E-04	1.96E-02	1.63E-05	
1-CPR-93-255	11/11/93 11/11/93	1602 1623	2.93E-03	1.55E-01	2.55E-04	1.07E-03	8.01E-04	2.19E-02	1.82E-05	

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-256	11/12/93 11/12/93	2215 2230	2.25E-03	1.19E-01	1.96E-04	8.26E-04	6.16E-04	1.68E-02	1.40E-05	
1-CPR-93-257	11/13/93 11/13/93	1337 1400	3.38E-03	1.79E-01	2.94E-04	1.24E-03	9.24E-04	2.52E-02	2.10E-05	
1-CPR-93-258	11/16/93 11/16/93	2043 2100	2.42E-03	1.28E-01	2.10E-04	8.85E-04	6.60E-04	1.80E-02	1.50E-05	
1-CPR-93-259	11/18/93 11/18/93	1207 1225	2.48E-03	1.31E-01	2.16E-04	9.09E-04	6.78E-04	1.85E-02	1.54E-05	
1-CPR-93-260	11/19/93 11/19/93	0114 0135	2.91E-03	1.54E-01	2.53E-04	1.07E-03	7.96E-04	2.17E-02	1.81E-05	
1-CPR-93-261	11/21/93 11/21/93	1147 1205	2.50E-03	1.32E-01	2.17E-04	9.15E-04	6.82E-04	1.86E-02	1.55E-05	
1-CPR-93-262	11/23/93 11/23/93	0447 0507	2.59E-03	1.37E-01	2.25E-04	9.50E-04	7.08E-04	1.93E-02	1.61E-05	
1-CPR-93-263	11/25/93 11/25/93	1240 1300	3.14E-03	1.66E-01	2.73E-04	1.15E-03	8.58E-04	2.34E-02	1.95E-05	
1-CPR-93-264	11/26/93 11/26/93	0617 0636	2.56E-03	1.35E-01	2.23E-04	9.38E-04	7.00E-04	1.91E-02	1.59E-05	
1-CPR-93-265	11/27/93 11/27/93	2131 2151	3.17E-03	1.68E-01	2.76E-04	1.16E-03	8.67E-04	2.37E-02	1.97E-05	
1-CPR-93-266	12/01/93 12/01/93	0944 1003	1.55E-03	8.21E-02	1.35E-04	5.69E-04	4.24E-04	1.16E-02	9.64E-06	
1-CPR-93-267	12/02/93 12/02/93	0125 0150	2.51E-03	1.33E-01	2.18E-04	9.20E-04	6.86E-04	1.87E-02	1.56E-05	
1-CPR-93-268	12/03/93 12/03/93	1625 1646	1.66E-03	8.77E-02	1.44E-04	6.08E-04	4.53E-04	1.24E-02	1.03E-05	
1-CPR-93-269	12/04/93 12/04/93	0624 0647	1.63E-03	8.60E-02	1.41E-04	5.96E-04	4.44E-04	1.21E-02	1.01E-05	
1-CPR-93-270	12/05/93 12/05/93	1935 1955	1.57E-03	8.31E-02	1.37E-04	5.76E-04	4.29E-04	1.17E-02	9.76E-06	

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr81	Kr88
1-CPR-93-271	12/07/93 12/07/93	1759 1818	1.63E-03	8.60E-02	1.41E-04	5.96E-04	4.44E-04	1.21E-02	1.01E-05	
1-CPR-93-272	12/09/93 12/09/93	0257 0317	1.66E-03	8.77E-02	1.44E-04	6.08E-04	4.53E-04	1.24E-02	1.03E-05	
1-CPR-93-273	12/09/93 12/09/93	1827 1845	2.00E-03	1.06E-01	1.74E-04	7.32E-04	5.46E-04	1.49E-02	1.24E-05	
1-CPR-93-274	12/12/93 12/12/93	0557 0615	6.09E-04	3.22E-02	5.29E-05	2.23E-04	1.66E-04	4.54E-03	3.78E-06	
1-CPR-93-275	12/13/93 12/13/93	0527 0544	8.07E-04	4.27E-02	7.01E-05	2.96E-04	2.20E-04	6.02E-03	5.01E-06	
1-CPR-93-276	12/14/93 12/14/93	0330 0348	7.95E-04	4.21E-02	6.92E-05	2.91E-04	2.17E-04	5.93E-03	4.94E-06	
1-CPR-93-277	12/15/93 12/15/93	0947 1004	1.02E-03	5.42E-02	8.90E-05	3.75E-04	2.80E-04	7.64E-03	6.36E-06	
1-CPR-93-278	12/17/93 12/17/93	0915 0934	1.06E-03	5.60E-02	9.20E-05	3.88E-04	2.89E-04	7.89E-03	6.57E-06	
1-CPR-93-279	12/18/93 12/18/93	0145 0205	1.35E-03	7.14E-02	1.17E-04	4.94E-04	3.69E-04	1.01E-02	8.38E-06	
1-CPR-93-280	12/19/93 12/19/93	1243 1311	2.03E-03	1.07E-01	1.76E-04	7.43E-04	5.54E-04	1.51E-02	1.26E-05	
1-CPR-93-281	12/20/93 12/20/93	1057 1127	2.37E-03	1.25E-01	2.06E-04	8.67E-04	6.47E-04	1.77E-02	1.47E-05	
1-CPR-93-282	12/22/93 12/22/93	0359 0420	1.63E-03	8.60E-02	1.41E-04	5.96E-04	4.44E-04	1.21E-02	1.01E-05	
1-CPR-93-283	12/23/93 12/23/93	2312 2339	1.95E-03	1.03E-01	1.69E-04	7.14E-04	5.32E-04	1.45E-02	1.21E-05	
1-CPR-93-284	12/24/93 12/24/93	2026 2050	1.84E-03	9.71E-02	1.60E-04	6.73E-04	5.02E-04	1.37E-02	1.14E-05	
1-CPR-93-285	12/26/93 12/26/93	1205 1225	1.57E-03	8.30E-02	1.36E-04	5.75E-04	4.29E-04	1.17E-02	9.74E-06	

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
1-CPR-93-286	12/28/93 12/28/93	1230 1247	1.27E-03	6.70E-02	1.10E-04	4.64E-04	3.46E-04	9.45E-03	7.87E-06	
1-CPR-93-287	12/28/93 12/28/93	2336 2357	1.95E-03	1.03E-01	1.69E-04	7.14E-04	5.32E-04	1.45E-02	1.21E-05	
1-CPR-93-288	12/29/93 12/29/93	1148 1206	1.36E-03	7.19E-02	1.18E-04	4.98E-04	3.71E-04	1.01E-02	8.44E-06	
1-CPR-93-289	12/30/93 12/30/93	1800 1818	1.39E-03	7.34E-02	1.21E-04	5.09E-04	3.79E-04	1.04E-02	8.62E-06	
1-CPR-93-290	12/31/93 12/31/93	1918 1938	1.63E-03	8.60E-02	1.41E-04	5.96E-04	4.44E-04	1.21E-02	1.01E-05	

Number	Stop	Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR- 	01/02/93 01/02/93	1311 1338		8.75E-04	1.  5	3.89E-03				
2-CPR-93-2	01/04/93 01/04/93	0118 0140		9.96E-04	1.36E-05	4.43E-03				
2-CPR-93-3	01/07/93 01/07/93	1445 1510		2.51E-03	3.43E-05	1.12E-02				
2-CPR-93-4	01/10/93 01/10/93	1541 1602		1.98E-03	2.70E-05	8.80E-03				
2-CPR-93-5	01/12/93 01/12/93	0221 0240		2.05E-03	2.80E-05	9.12E-03				
2-CPR-93-6	01/12/93 01/12/93	1514 1535		2.03E-02	2.78E-04	9.04E-02				
2-CPR-93-7	01/13/93 01/13/93	0636 0658		7.34E-04	1.00E-05	3.27E-03				
2-CPR-93-8	01/16/93 01/16/93	1224 1253		1.54E-03	2.11E-05	6.87E-03				
2-CPR-93-9	01/20/93 01/20/93	0807 0828		1.83E-03	2.50E-05	8.13E-03				
2-CPR-93-10	01/20/93 01/20/93	1723 1744		4.49E-03	6.13E-05	2.00E-02				
2-CPR-93-11	01/21/93 01/21/93	0657 0727		6.17E-03	8.43E-05	2.74E-02				
2-CPR-93-12	01/23/93 01/23/93	1013 1042		5.07E-03	6.93E-05	2.26E-02				
2-CPR-93-13	01/26/93 01/26/93	0723 0752		3.53E-03	4.83E-05	1.57E-02				
2-CPR-93-14	01/28/93 01/28/93	0046 0111		3.11E-03	4.25E-05	1.38E-02				
2-CPR-93-15	01/30/93 01/30/93	1533 1558		4.80E-03	6.55E-05	2.13E-02				
2-CPR-93-16	01/31/93 01/31/93	0330 0352		3.95E-03	5.40E-05	1.76E-02				

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-17	02/05/93 02/05/93	0110 0129		3.08E-03	6.85E-05	1.36E-02				
2-CPR-93-18	02/07/93 02/07/93	0018 0038		3.04E-03	6.77E-05	1.34E-02				
2-CPR-93-19	02/09/93 02/09/93	1337 1428		9.60E-03	2.14E-04	4.23E-02				
2-CPR-93-20	02/11/93 02/11/93	2257 2323		4.68E-03	1.04E-04	2.06E-02				
2-CPR-93-21	02/16/93 02/16/93	0323 0346		4.63E-03	1.03E-04	2.04E-02				
2-CPR-93-22	02/18/93 02/18/93	0559 0620		2.99E-03	6.64E-05	1.31E-02				
2-CPR-93-23	02/19/93 02/19/93	1842 1903		1.46E-03	3.26E-05	6.44E-03				
2-CPR-93-24	02/20/93 02/20/93	2249 2309		1.83E-03	4.08E-05	8.08E-03				
2-CPR-93-25	02/21/93 02/21/93	0631 0656		3.06E-03	6.81E-05	1.35E-02				
2-CPR-93-26	02/25/93 02/25/93	1347 1359		9.73E-04	2.16E-05	4.29E-03				
2-CPR-93-27	02/28/93 02/28/93	0724 0740		1.02E-03	2.26E-05	4.48E-03				
2-CPR-93-28	03/01/93 03/01/93	0321 0343		1.34E-03	2.43E-05	6.21E-03				
2-CPR-93-29	03/02/93 03/02/93	1504 1526		2.93E-03	5.28E-05	1.35E-02				
2-CPR-93-30	03/04/93 03/04/93	0640 0706		2.93E-03	5.28E-05	1.35E-02				
2-CPR-93-31	03/07/93 03/07/93	0415 0438		2.57E-03	4.64E-05	1.19E-02				
2-CPR-93-32	03/10/93 03/10/93	0233 0258		2.24E-03	4.07E-05	1.03E-02				

Number	Stop	Stop	Xel31m	Xel33	Xel35	Ar41	Xel33m	Kr85	Kr85m	Kr88
2-CPR-93-33	03/13/93 03/13/93	0356 0422		1.56E-03	2.5E-05	7.19E-03				
2-CPR-93-34	03/15/93 03/15/93	1423 1451		3.37E-03	6.08E-05	1.56E-02				
2-CPR-93-35	03/19/93 03/19/93	0238 0310		2.52E-03	4.54E-05	1.16E-02				
2-CPR-93-36	03/21/93 03/21/93	1334 1351		1.19E-03	2.14E-05	5.48E-03				
2-CPR-93-37	03/22/93 03/22/93	1953 2020		2.43E-03	4.38E-05	1.12E-02				
2-CPR-93-39	03/28/93 03/28/93	0251 0313		1.00E-03	1.81E-05	4.64E-03				
2-CPR-93-40	03/30/93 03/30/93	0343 0417		1.49E-03	2.69E-05	6.89E-03				
2-CPR-93-41	03/31/93 03/31/93	0631 0655		2.38E-03	4.29E-05	1.10E-02				
2-CPR-93-42	04/05/93 04/05/93	0216 0238		1.41E-03	2.54E-05	6.51E-03				
2-CPR-93-43	04/07/93 04/07/93	0423 0447		1.84E-03	3.33E-05	8.52E-03				
2-CPR-93-44	04/08/93 04/08/93	0509 0534		1.97E-03	3.55E-05	9.09E-03				
2-CPR-93-45	04/09/93 04/09/93	0558 0619		2.16E-03	3.90E-05	1.00E-02				
2-CPR-93-46	04/11/93 04/11/93	0511 0534		1.84E-03	3.33E-05	8.52E-03				
2-CPR-93-47	04/13/93 04/13/93	2333 2356		2.20E-03	3.97E-05	1.02E-02				
2-CPR-93-48	04/14/93 04/14/93	1836 1900		1.71E-03	3.08E-05	7.88E-03				
2-CPR-93-49	04/15/93 04/15/93	1545 1615		2.48E-03	4.48E-05	1.15E-02				

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-50	04/18/93 04/18/93	2032 2056		1.86E-03	3.36E-05	8.60E-03				
2-CPR-93-51	04/19/93 04/19/93	1710 1732		2.36E-03	4.26E-05	1.09E-02				
2-CPR-93-52	04/22/93 04/22/93	1839 1907		1.43E-03	2.58E-05	6.61E-03				
2-CPR-93-53	04/23/93 04/23/93	2201 2225		2.93E-03	5.28E-05	1.35E-02				
2-CPR-93-54	04/24/93 04/24/93	1420 1443		2.79E-03	5.02E-05	1.29E-02				
2-CPR-93-55	04/28/93 04/28/93	0428 0452		2.45E-03	4.42E-05	1.13E-02				
2-CPR-93-56	04/29/93 04/29/93	0707 0734		2.24E-03	4.03E-05	1.03E-02				
2-CPR-93-57	05/01/93 05/01/93	1922 1946		2.15E-03	3.87E-05	9.91E-03				
2-CPR-93-58	05/03/93 05/03/93	0342 0405		2.50E-03	4.51E-05	1.16E-02				
2-CPR-93-59	05/07/93 05/07/93	0525 0551		2.47E-03	4.45E-05	1.14E-02				
2-CPR-93-60	05/09/93 05/09/93	0839 0901		1.95E-03	3.52E-05	9.01E-03				
2-CPR-93-61	05/11/93 05/11/93	1640 1707		1.75E-03	3.16E-05	8.10E-03				
2-CPR-93-62	05/12/93 05/12/93	1530 1557		4.70E-03	8.48E-05	2.17E-02				
2-CPR-93-63	05/14/93 05/14/93	1058 1113		2.79E-03	5.02E-05	1.29E-02				
2-CPR-93-64	05/17/93 05/17/93	2131 2158		4.19E-03	7.55E-05	1.93E-02				

Number	Stop	Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-65	05/20/93 05/20/93	0632 0700		5.69E-03	1.67E-04	2.63E-02				
2-CPR-93-66	05/22/93 05/22/93	1700 1730		1.75E-03	3.16E-05	8.08E-03				
2-CPR-93-67	05/23/93 05/23/93	1445 1510		2.59E-03	4.67E-05	1.20E-02				
2-CPR-93-68	05/26/93 05/26/93	1930 1950		1.37E-03	2.47E-05	6.33E-03				
2-CPR-93-69	05/27/93 05/27/93	1703 1725		3.94E-03	7.10E-05	1.82E-02				
2-CPR-93-70	05/30/93 05/30/93	0423 0448		2.73E-03	4.93E-05	1.26E-02				
2-CPR-93-71	05/30/93 05/30/93	1740 1802		2.18E-03	3.94E-05	1.01E-02				
2-CPR-93-72	06/02/93 06/02/93	0553 0620		6.16E-03	1.11E-04	2.84E-02				
2-CPR-93-73	06/04/93 06/04/93	1404 1427		3.30E-03	5.95E-05	1.52E-02				
2-CPR-93-74	06/07/93 06/07/93	0150 0216		2.16E-03	3.90E-05	1.00E-02				
2-CPR-93-75	06/08/93 06/08/93	0156 0216		1.23E-03	2.22E-05	5.69E-03				
2-CPR-93-76	06/12/93 06/12/93	1801 1827		2.61E-03	4.70E-05	1.20E-02				
2-CPR-93-77	06/14/93 06/14/93	0750 0820		1.17E-03	2.12E-05	5.42E-03				
2-CPR-93-78	06/17/93 06/17/93	1224 1247		3.44E-03	6.21E-05	1.59E-02				
2-CPR-93-79	06/19/93 06/19/93	1054 1120		3.23E-03	5.82E-05	1.49E-02				

Release Number	Start Stop	Start Stop	Xel131m	Xel133	Xel135	Ar41	Xel133m	Kr85	Kr85m	Kr88
2-CPR-93-80	06/20/93 06/20/93	1421 1445		2.32E-03	4.19E-05	1.07E-02				
2-CPR-93-81	06/23/93 06/23/93	1829 1901		5.00E-03	9.02E-05	2.31E-02				
2-CPR-93-82	06/26/93 06/26/93	1403 1430		4.47E-03	8.06E-05	2.06E-02				
2-CPR-93-83	06/27/93 06/27/93	1336 1353		1.72E-03	3.10E-05	7.93E-03				
2-CPR-93-84	07/01/93 07/01/93	1600 1623		3.95E-03	1.55E-04	1.81E-02				
2-CPR-93-85	07/03/93 07/03/93	2152 2216		3.69E-03	1.45E-04	1.69E-02				
2-CPR-93-86	07/05/93 07/05/93	1036 1057		2.87E-03	1.13E-04	1.31E-02				
2-CPR-93-87	07/07/93 07/07/93	0350 0415		2.83E-03	1.11E-04	1.30E-02				
2-CPR-93-88	07/08/93 07/08/93	1828 1857		5.00E-03	1.97E-04	2.29E-02				
2-CPR-93-89	07/11/93 07/11/93	0634 0655		2.01E-03	7.91E-05	9.21E-03				
2-CPR-93-90	07/17/93 07/17/93	1711 1733		1.92E-03	7.56E-05	8.80E-03				
2-CPR-93-91	07/20/93 07/20/93	2140 2207		4.19E-03	1.65E-04	1.92E-02				
2-CPR-93-92	07/23/93 07/23/93	1740 1805		4.56E-03	1.79E-04	2.09E-02				
2-CPR-93-93	07/25/93 07/25/93	1250 1322		5.41E-03	2.13E-04	2.48E-02				
2-CPR-93-94	07/27/93 07/27/93	1610 1723		1.60E-02	6.30E-04	7.33E-02				

Number	Stop	Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-95	07/31/93 07/31/93	1653 1805		1.65E-02	6.4E-04	7.53E-02				
2-CPR-93-96	08/01/93 08/01/93	0810 0918		1.18E-02	4.63E-04	5.39E-02				
2-CPR-93-97	08/09/93 08/09/93	1604 1634		2.71E-03	1.06E-04	1.24E-02				
2-CPR-93-98	08/11/93 08/11/93	0038 0106		1.96E-03	7.70E-05	8.96E-03				
2-CPR-93-99	08/12/93 08/12/93	0546 0610		2.90E-03	1.14E-04	1.33E-02				
2-CPR-93-100	08/15/93 08/15/93	0347 0416		6.06E-03	2.38E-04	2.77E-02				
2-CPR-93-101	08/16/93 08/16/93	0017 0036		3.62E-03	1.42E-04	1.65E-02				
2-CPR-93-102	08/19/93 08/19/93	1305 1335		3.19E-03	1.25E-04	1.46E-02				
2-CPR-93-103	08/22/93 08/22/93	1602 1634		2.89E-03	1.13E-04	1.32E-02				
2-CPR-93-104	08/26/93 08/26/93	1537 1635		2.17E-02						
2-CPR-93-105	08/27/93 08/27/93	1657 1717		1.01E-02	3.98E-04	4.63E-02				
2-CPR-93-106	08/30/93 08/30/93	1453 1629		9.39E-02	3.44E-03					
2-CPR-93-107	09/02/93 09/02/93	1021 1047		1.04E-02	4.09E-04	4.76E-02				
2-CPR-93-108	09/05/93 09/05/93	0625 0649		1.08E-02	4.23E-04	4.92E-02				
2-CPR-93-109	09/08/93 09/08/93	0150 0212		1.13E-02	4.42E-04	5.15E-02				

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-110	09/09/93 09/09/93	0236 0305		1.15E-02	4.53E-04	5.27E-02				
2-CPR-93-111	09/12/93 09/12/93	0127 0157		1.73E-02	6.80E-04	7.92E-02				
2-CPR-93-112	09/14/93 09/14/93	0626 0649		1.25E-02	4.91E-04	5.71E-02				
2-CPR-93-113	09/17/93 09/17/93	1840 1910		7.16E-03	2.81E-04	3.28E-02				
2-CPR-93-114	09/20/93 09/20/93	1531 1600		1.15E-02	4.54E-04	5.28E-02				
2-CPR-93-115	09/22/93 09/22/93	1945 2009		6.64E-03	2.61E-04	3.04E-02				
2-CPR-93-116	09/25/93 09/25/93	0504 0530		7.87E-03	3.09E-04	3.60E-02				
2-CPR-93-117	09/25/93 09/25/93	1715 1736		6.55E-03	2.58E-04	3.00E-02				
2-CPR-93-118	09/30/93 09/30/93	1714 1735		6.61E-03	2.60E-04	3.02E-02				
2-CPR-93-119	10/01/93 10/01/93	0452 0513		1.25E-02	3.30E-04	2.90E-02				
2-CPR-93-120	10/03/93 10/03/93	0810 0833		1.46E-02	3.84E-04	3.37E-02				
2-CPR-93-121	10/07/93 10/07/93	0408 0431		1.13E-02	2.99E-04	2.62E-02				
2-CPR-93-122	10/08/93 10/08/93	0625 0658		2.10E-02	5.54E-04	4.86E-02				
2-CPR-93-123	10/11/93 10/11/93	1352 1420		1.51E-02	3.98E-04	3.49E-02				
2-CPR-93-124	10/14/93 10/14/93	1557 1618		1.23E-02	3.25E-04	2.85E-02				

Number	Stop	Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-125	10/16/93 10/16/93	0532 0557		2.21E-02	5.11E-04	5.11E-02				
2-CPR-93-126	10/17/93 10/17/93	0618 0643		9.59E-03	2.53E-04	2.22E-02				
2-CPR-93-127	10/20/93 10/20/93	1502 1522		8.27E-03	2.18E-04	1.91E-02				
2-CPR-93-128	10/23/93 10/23/93	1508 1527		9.38E-03	2.47E-04	2.17E-02				
2-CPR-93-129	10/24/93 10/24/93	1518 1533		5.12E-03	1.35E-04	1.18E-02				
2-CPR-93-130	10/26/93 10/26/93	0325 0353		1.12E-02	2.95E-04	2.58E-02				
2-CPR-93-131	10/27/93 10/27/93	2230 2255		7.88E-03	2.08E-04	1.82E-02				
2-CPR-93-132	10/28/93 10/28/93	1437 1505		7.25E-03	1.91E-04	1.68E-02				
2-CPR-93-133	11/02/93 11/02/93	1909 1930		7.64E-03	2.01E-04	1.77E-02				
2-CPR-93-134	11/03/93 11/03/93	0455 0508		4.34E-03	1.15E-04	1.00E-02				
2-CPR-93-135	11/04/93 11/04/93	1144 1210		1.02E-02	2.70E-04	2.37E-02				
2-CPR-93-136	11/10/93 11/10/93	0616 0640		7.37E-03	1.94E-04	1.70E-02				
2-CPR-93-137	11/11/93 11/11/93	0910 0935		6.26E-03	1.65E-04	1.45E-02				
2-CPR-93-138	11/12/93 11/12/93	2249 2314		8.99E-03	2.37E-04	2.08E-02				
2-CPR-93-139	11/14/93 11/14/93	1306 1338		9.86E-03	2.60E-04	2.28E-02				

Release Number	Start Stop	Start Stop	Xe131m	Xe133	Xe135	Ar41	Xe133m	Kr85	Kr85m	Kr88
2-CPR-93-140	11/17/93 11/17/93	0121 0147		7.19E-03	1.90E-04	1.66E-02				
2-CPR-93-141	11/18/93 11/18/93	1450 1512		8.39E-03	2.21E-04	1.94E-02				
2-CPR-93-142	11/19/93 11/19/93	0300 0319		6.68E-03	1.76E-04	1.54E-02				
2-CPR-93-143	11/23/93 11/23/93	0742 0807		8.15E-03	2.15E-04	1.88E-02				
2-CPR-93-144	11/25/93 11/25/93	1718 1739		6.05E-03	1.60E-04	1.40E-02				
2-CPR-93-145	11/27/93 11/27/93	1452 1513		5.36E-03	1.41E-04	1.24E-02				
2-CPR-93-146	11/28/93 11/28/93	1322 1345		1.34E-02	3.53E-04	3.10E-02				
2-CPR-93-147	12/01/93 12/01/93	1319 1344		1.02E-02	2.69E-04	2.36E-02				
2-CPR-93-148	12/02/93 12/02/93	0728 0752		1.59E-02	4.20E-04	3.68E-02				
2-CPR-93-149	12/03/93 12/03/93	2119 2145		1.85E-02	4.87E-04	4.27E-02				
2-CPR-93-150	12/04/93 12/04/93	1056 1117		9.77E-03	2.58E-04	2.26E-02				
2-CPR-93-151	12/05/93 12/06/93	2340 0002		7.70E-03	2.03E-04	1.78E-02				
2-CPR-93-152	12/08/93 12/08/93	0025 0044		7.64E-03	2.01E-04	1.77E-02				
2-CPR-93-153	12/09/93 12/09/93	0520 0543		1.61E-02	4.25E-04	3.73E-02				
2-CPR-93-154	12/09/93 12/09/93	2133 2158		1.83E-02	4.83E-04	4.23E-02				

[illegible]

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

<u>Sector</u>	<u>Direction</u>	<u>Boundary (Meters)</u>	<u>Nearest Residence (Meters)</u>
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

APPENDIX 1.2

Summary of Maximum Individual Doses
First Quarter, 1993

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SUMMARY OF MAXIMUM INDIVIDUAL DOSES

1st Quarter 1993

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mRem)	AGE GROUP	LOCATION DIST DIR (M) (Toward)	% OF APPLICABLE LIMIT	LIMIT (mRem) QTR
Liquid	Total Body	9.76E-2	Adult	Receptor 1	6.51E+0	1.5E+0
Liquid	Liver	1.38E-1	Teen	Receptor 1	2.76E+0	5.0E+0
Noble Gas	Air Dose (Gamma-mrad)	5.43E-2		651 N	1.90E+0	5.0E+0
Noble Gas	Air dose (Beta-mrad)	3.91E-2		651 N	3.91E-1	1.0E+1
Iodines and Particulates	Liver	2.76E-3	Child	659 N	3.68E-2	7.5E+0

LIQUID DOSE ACCUMULATIONS(MREM)

START DATE 93 1 1 1 END DATE 93 33124

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
WATER								
ADULT	5.3E-04	2.8E-03	2.5E-03	2.0E-03	2.2E-03	2.0E-03	2.3E-03	0.0E+00
TEEN	5.2E-04	2.2E-03	1.7E-03	1.4E-03	1.6E-03	1.4E-03	1.6E-03	0.0E+00
CHILD	1.5E-03	4.2E-03	2.9E-03	2.8E-03	3.1E-03	2.7E-03	2.7E-03	0.0E+00
INFANT	1.5E-03	4.6E-03	2.7E-03	2.9E-03	3.0E-03	2.7E-03	2.6E-03	0.0E+00

SHORE

ADULT	8.1E-05	8.1E-05	8.1E-05	8.1E-05	8.1E-05	8.1E-05	8.1E-05	9.5E-05
TEEN	4.5E-04	4.5E-04	4.5E-04	4.5E-04	4.5E-04	4.5E-04	4.5E-04	5.3E-04
CHILD	9.5E-05	9.5E-05	9.5E-05	9.5E-05	9.5E-05	9.5E-05	9.5E-05	1.1E-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	7.9E-02	1.3E-01	9.5E-02	2.4E-04	4.4E-02	1.5E-02	3.6E-03	0.0E+00
TEEN	8.3E-02	1.4E-01	5.4E-02	2.0E-04	4.5E-02	1.7E-02	2.6E-03	0.0E+00
CHILD	1.0E-01	1.2E-01	2.1E-02	1.9E-04	3.8E-02	1.4E-02	1.0E-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

TOTAL

ADULT	7.9E-02	1.3E-01	9.8E-02	2.3E-03	4.6E-02	1.7E-02	6.0E-03	9.5E-05
TEEN	8.4E-02	1.4E-01	5.6E-02	2.1E-03	4.7E-02	1.9E-02	4.7E-03	5.3E-04
CHILD	1.0E-01	1.2E-01	2.4E-02	3.1E-03	4.1E-02	1.7E-02	3.9E-03	1.1E-04
INFANT	1.5E-03	4.6E-03	2.7E-03	2.9E-03	3.0E-03	2.7E-03	2.6E-03	0.0E+00

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 93 1 1 1 0 TO 93 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	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	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	0.0000E+00	0.0000E+00
**DIRECTION FROM ENE					
7.9065E-07	2.8157E-08	1.1987E-08	7.9467E-09	6.0845E-09	
3.6506E-09	1.8252E-09	1.0951E-09	7.8224E-10	5.4723E-10	
**DIRECTION FROM E					
8.6417E-06	9.9987E-07	4.3947E-07	2.4892E-07	1.6777E-07	
7.6729E-08	2.5991E-08	1.1835E-08	7.1030E-09	4.0328E-09	
**DIRECTION FROM ESE					
3.7076E-07	1.8051E-08	1.0848E-08	7.7462E-09	6.0236E-09	
3.6141E-09	1.8070E-09	1.0842E-09	7.7441E-10	5.4175E-10	
**DIRECTION FROM SE					
1.4073E-07	6.8516E-09	4.1178E-09	2.9402E-09	2.2864E-09	
1.3718E-09	6.8587E-10	4.1152E-10	2.9395E-10	2.0563E-10	
**DIRECTION FROM SSE					
2.0663E-03	2.7821E-04	1.2579E-04	7.2081E-05	5.0336E-05	
2.5161E-05	9.5498E-06	4.6569E-06	2.9457E-06	1.8164E-06	
**DIRECTION FROM S					
2.2579E-04	7.3637E-05	3.3512E-05	1.9255E-05	1.3551E-05	
2.8978E-06	2.6724E-06	1.3178E-06	8.4021E-07	5.2414E-07	
**DIRECTION FROM SSW					
5.8999E-04	7.5818E-05	3.8952E-05	2.4568E-05	1.7406E-05	
8.7726E-06	3.5863E-06	1.8404E-06	1.2025E-06	7.6688E-07	
**DIRECTION FROM SW					
7.4471E-04	9.8281E-05	4.4283E-05	2.5341E-05	1.7622E-05	
8.7222E-06	3.2725E-06	1.5856E-06	9.9831E-07	6.1138E-07	
**DIRECTION FROM WSW					
2.0245E-04	2.3424E-05	1.0296E-05	5.8317E-06	3.9304E-06	
1.7976E-06	6.0890E-07	2.7727E-07	1.6640E-07	9.4478E-08	
**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					
9.9882E-05	3.2684E-06	1.2030E-06	7.6448E-07	5.7982E-07	
3.4788E-07	1.7393E-07	1.0436E-07	7.4543E-08	5.2148E-08	

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0
2067.0 24135.0 40225.0 56315.0 80500.0

;FOR RELEASE POINT 2

**DIRECTION FROM N

2.3356E-02	2.5016E-03	1.1164E-03	6.4265E-04	4.4038E-04
2.1020E-04	7.6617E-05	3.7061E-05	2.3452E-05	1.4468E-05

**DIRECTION FROM NNE

1.3613E-02	1.5732E-03	7.0179E-04	4.0196E-04	2.7723E-04
1.3478E-04	4.9982E-05	2.4370E-05	1.5507E-05	9.6191E-06

**DIRECTION FROM NE

1.8203E-02	2.0783E-03	9.3474E-04	5.3900E-04	3.7371E-04
1.8344E-04	6.8901E-05	3.3753E-05	2.1459E-05	1.3307E-05

**DIRECTION FROM ENE

4.0808E-02	4.4502E-03	1.9917E-03	1.1491E-03	7.9150E-04
3.8260E-04	1.4181E-04	6.9215E-05	4.4012E-05	2.7269E-05

**DIRECTION FROM E

6.0450E-02	6.7409E-03	3.2564E-03	1.9755E-03	1.3897E-03
6.9437E-04	2.7237E-04	1.3495E-04	8.6037E-05	5.4206E-05

**DIRECTION FROM ESE

6.7062E-02	7.8418E-03	3.7307E-03	2.2359E-03	1.5667E-03
7.7889E-04	3.0258E-04	1.4971E-04	9.5520E-05	5.9915E-05

**DIRECTION FROM SE

6.6840E-02	7.4652E-03	3.6130E-03	2.1905E-03	1.5479E-03
7.8146E-04	3.0848E-04	1.5266E-04	9.7165E-05	6.1415E-05

**DIRECTION FROM SSE

5.2279E-02	6.1800E-03	2.9342E-03	1.7528E-03	1.2341E-03
6.2063E-04	2.4255E-04	1.1974E-04	7.6168E-05	4.7815E-05

**DIRECTION FROM S

6.1832E-02	7.3249E-03	3.4364E-03	2.0380E-03	1.4253E-03
7.0750E-04	2.7248E-04	1.3403E-04	8.5182E-05	5.3149E-05

**DIRECTION FROM SSW

3.8806E-02	4.5926E-03	2.0841E-03	1.2081E-03	8.3120E-04
3.9920E-04	1.4674E-04	7.0754E-05	4.4473E-05	2.7111E-05

**DIRECTION FROM SW

2.8747E-02	3.1365E-03	1.3816E-03	7.8699E-04	5.3455E-04
2.5022E-04	8.8497E-05	4.2077E-05	2.6336E-05	1.5935E-05

**DIRECTION FROM WSW

3.4216E-02	3.6617E-03	1.6169E-03	9.2480E-04	6.2835E-04
2.9331E-04	1.0336E-04	4.8789E-05	3.0162E-05	1.7906E-05

**DIRECTION FROM W

4.3715E-02	4.6467E-03	2.0457E-03	1.1669E-03	7.8957E-04
3.6520E-04	1.2713E-04	5.9731E-05	3.6943E-05	2.1978E-05

**DIRECTION FROM WNW

2.8409E-02	2.8518E-03	1.2479E-03	7.1187E-04	4.8274E-04
2.2545E-04	8.0155E-05	3.8712E-05	2.4616E-05	1.5198E-05

**DIRECTION FROM NW

2.8377E-02	2.7099E-03	1.1949E-03	6.8867E-04	4.6901E-04
2.2068E-04	7.9776E-05	3.8904E-05	2.4832E-05	1.5434E-05

**DIRECTION FROM NNW

3.4552E-02	3.6342E-03	1.6137E-03	9.2750E-04	6.3090E-04
2.9555E-04	1.0545E-04	5.0499E-05	3.1741E-05	1.9326E-05

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 93 1 1 1 0 TO 93 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	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	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	0.0000E+00	0.0000E+00
**DIRECTION FROM ENE					
8.9571E-05	3.1899E-06	1.3580E-06	9.0026E-07	6.8930E-07	
4.1357E-07	2.0678E-07	1.2407E-07	8.8618E-08	6.1994E-08	
**DIRECTION FROM E					
9.7993E-04	1.1338E-04	4.9834E-05	2.8227E-05	1.9024E-05	
8.7006E-06	2.9472E-06	1.3421E-06	8.0544E-07	4.5730E-07	
**DIRECTION FROM ESE					
4.0934E-05	1.9929E-06	1.1977E-06	8.5522E-07	6.6504E-07	
3.9901E-07	1.9950E-07	1.1970E-07	8.5499E-08	5.9812E-08	
**DIRECTION FROM SE					
1.5537E-05	7.5646E-07	4.5463E-07	3.2462E-07	2.5243E-07	
1.5145E-07	7.5724E-08	4.5434E-08	3.2453E-08	2.2703E-08	
**DIRECTION FROM SSE					
4.4591E-03	6.0037E-04	2.7144E-04	1.5555E-04	1.0862E-04	
5.4297E-05	2.0608E-05	1.0049E-05	6.3567E-06	3.9198E-06	
**DIRECTION FROM S					
1.1346E-03	1.5891E-04	7.2319E-05	4.1551E-05	2.9243E-05	
1.4885E-05	5.7670E-06	2.8437E-06	1.8131E-06	1.1311E-06	
**DIRECTION FROM SSW					
2.0243E-03	2.5052E-04	1.2225E-04	7.4653E-05	5.2143E-05	
2.5600E-05	9.9981E-06	5.0003E-06	3.2124E-06	2.0054E-06	
**DIRECTION FROM SW					
1.6071E-03	2.1209E-04	9.5561E-05	5.4684E-05	3.8028E-05	
1.8822E-05	7.0618E-06	3.4217E-06	2.1543E-06	1.3193E-06	
**DIRECTION FROM WSW					
4.3689E-04	5.0549E-05	2.2218E-05	1.2585E-05	8.4817E-06	
3.8791E-06	1.3140E-06	5.9835E-07	3.5909E-07	2.0388E-07	
**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					
3.5975E-04	1.1772E-05	4.3329E-06	2.7535E-06	2.0884E-06	
1.2530E-06	6.2647E-07	3.7588E-07	2.6849E-07	1.8782E-07	

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0

2067.0 24135.0 40225.0 56315.0 80500.0

FOR RELEASE POINT 2

**DIRECTION FROM N

2.1222E-02	2.2100E-03	1.0196E-03	6.0167E-04	4.1807E-04
2.0486E-04	7.7891E-05	3.8369E-05	2.4507E-05	1.5432E-05

**DIRECTION FROM NNE

1.2260E-02	1.3655E-03	6.1676E-04	3.5749E-04	2.4680E-04
1.1973E-04	4.4625E-05	2.1808E-05	1.3867E-05	8.6020E-06

**DIRECTION FROM NE

1.6222E-02	1.7666E-03	7.9967E-04	4.6435E-04	3.2160E-04
1.5711E-04	5.8957E-05	2.8858E-05	1.8357E-05	1.1446E-05

**DIRECTION FROM ENE

3.2961E-02	3.6107E-03	1.6497E-03	9.6499E-04	6.6999E-04
3.2866E-04	1.2453E-04	6.1212E-05	3.9044E-05	2.4435E-05

**DIRECTION FROM E

4.1782E-02	4.6446E-03	2.2426E-03	1.3591E-03	9.5829E-04
4.8165E-04	1.8977E-04	9.4188E-05	6.0142E-05	3.8051E-05

**DIRECTION FROM ESE

4.3596E-02	5.0308E-03	2.3923E-03	1.4337E-03	1.0051E-03
5.0024E-04	1.9447E-04	9.6233E-05	6.1414E-05	3.8589E-05

**DIRECTION FROM SE

3.9188E-02	4.3234E-03	2.0791E-03	1.2561E-03	8.8615E-04
4.4621E-04	1.7552E-04	8.6856E-05	5.5325E-05	3.4983E-05

**DIRECTION FROM SSE

3.6585E-02	4.1726E-03	2.0062E-03	1.2101E-03	8.5539E-04
4.3304E-04	1.7113E-04	8.4888E-05	5.4169E-05	3.4281E-05

**DIRECTION FROM S

4.3705E-02	5.1588E-03	2.4590E-03	1.4751E-03	1.0363E-03
5.1824E-04	2.0258E-04	1.0049E-04	6.4202E-05	4.0351E-05

**DIRECTION FROM SSW

2.7457E-02	3.2280E-03	1.4923E-03	8.7665E-04	6.0821E-04
2.9699E-04	1.1198E-04	5.4625E-05	3.4572E-05	2.1377E-05

**DIRECTION FROM SW

1.9408E-02	2.1292E-03	9.6078E-04	5.5698E-04	3.8195E-04
1.8211E-04	6.6541E-05	3.2122E-05	2.0268E-05	1.2456E-05

**DIRECTION FROM WSW

2.4286E-02	2.6063E-03	1.1711E-03	6.7808E-04	4.6533E-04
2.2208E-04	8.1019E-05	3.8997E-05	2.4451E-05	1.4878E-05

**DIRECTION FROM W

2.9784E-02	3.0928E-03	1.3942E-03	8.0992E-04	5.5484E-04
2.6345E-04	9.5784E-05	4.6065E-05	2.8937E-05	1.7737E-05

**DIRECTION FROM WNW

2.3454E-02	2.4034E-03	1.0794E-03	6.2678E-04	4.3016E-04
2.0570E-04	7.5801E-05	3.7036E-05	2.3611E-05	1.4704E-05

**DIRECTION FROM NW

2.4535E-02	2.4392E-03	1.1186E-03	6.6038E-04	4.5667E-04
2.2128E-04	8.3438E-05	4.1105E-05	2.6282E-05	1.6526E-05

**DIRECTION FROM NNW

3.1959E-02	3.4177E-03	1.5727E-03	9.2652E-04	6.4009E-04
3.0945E-04	1.1617E-04	5.7017E-05	3.6346E-05	2.2672E-05

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	5.9E-02
TEEN	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	5.9E-02
CHILD	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	5.9E-02
INFNT	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	5.9E-02

GROUND PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	8.4E-04
TEEN	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	8.4E-04
CHILD	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	8.4E-04
INFNT	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	7.1E-04	8.4E-04

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

ADULT	2.8E-05	2.5E-05	5.5E-06	2.8E-05	2.6E-05	2.5E-05	2.5E-05	0.0E+00
TEEN	3.1E-05	2.9E-05	7.6E-06	3.4E-05	3.0E-05	2.9E-05	2.9E-05	0.0E+00
CHILD	4.7E-05	4.4E-05	1.5E-05	5.3E-05	4.6E-05	4.4E-05	4.4E-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

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

ADULT	3.8E-06	3.8E-06	2.9E-07	3.9E-06	3.6E-06	3.6E-06	3.6E-06	0.0E+00
TEEN	2.2E-06	2.3E-06	2.3E-07	2.4E-06	2.2E-06	2.2E-06	2.1E-06	0.0E+00
CHILD	2.6E-06	2.6E-06	4.1E-07	2.9E-06	2.7E-06	2.6E-06	2.6E-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, 3556. METERS, WINDS TOWARD N

ADULT	3.7E-05	2.8E-05	9.9E-06	4.1E-05	3.2E-05	3.9E-05	2.9E-05	0.0E+00
TEEN	4.5E-05	3.6E-05	1.8E-05	5.9E-05	4.3E-05	5.4E-05	3.8E-05	0.0E+00
CHILD	6.3E-05	5.6E-05	4.1E-05	9.7E-05	6.9E-05	9.2E-05	6.0E-05	0.0E+00
INFNT	9.1E-05	8.5E-05	6.5E-05	1.6E-04	1.1E-04	1.7E-04	9.3E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD N

ADULT	8.4E-05	5.6E-05	2.9E-05	9.6E-05	6.9E-05	6.9E-05	6.0E-05	0.0E+00
TEEN	9.9E-05	7.3E-05	5.2E-05	1.4E-04	9.6E-05	9.4E-05	8.1E-05	0.0E+00
CHILD	1.3E-04	1.1E-04	1.2E-04	2.4E-04	1.5E-04	1.6E-04	1.3E-04	0.0E+00
INFNT	1.9E-04	1.7E-04	1.9E-04	4.1E-04	2.4E-04	2.8E-04	2.0E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	5.5E-04	5.5E-04	8.6E-06	5.5E-04	5.5E-04	5.6E-04	5.8E-04	0.0E+00
TEEN	5.5E-04	5.5E-04	1.0E-05	5.5E-04	5.5E-04	5.7E-04	6.0E-04	0.0E+00
CHILD	4.9E-04	4.9E-04	1.1E-05	4.9E-04	4.9E-04	5.1E-04	5.3E-04	0.0E+00
INFNT	2.8E-04	2.8E-04	5.5E-06	2.8E-04	2.8E-04	3.0E-04	3.1E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	1.4E-03	1.4E-03	7.7E-04	1.4E-03	1.4E-03	1.4E-03	1.4E-03	8.4E-04
TEEN	1.4E-03	1.4E-03	8.0E-04	1.5E-03	1.4E-03	1.5E-03	1.5E-03	8.4E-04
CHILD	1.4E-03	1.4E-03	9.1E-04	1.6E-03	1.5E-03	1.5E-03	1.5E-03	8.4E-04
INFNT	1.3E-03	1.3E-03	9.8E-04	1.6E-03	1.3E-03	1.5E-03	1.3E-03	8.4E-04

TOTALS

ADULT	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	6.0E-02
TEEN	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.5E-02	6.0E-02
CHILD	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.5E-02	6.0E-02
INFNT	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02	6.0E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 660. METERS, WINDS TOWARD NNE
ADULT 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 3.8E-02
TEEN 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 3.8E-02
CHILD 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 3.8E-02
INFNT 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 2.1E-02 3.8E-02

GROUND PATHWAY, DIST GP= 1, 660. METERS, WINDS TOWARD NNE
ADULT 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 6.8E-04
TEEN 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 6.8E-04
CHILD 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 6.8E-04
INFNT 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 5.8E-04 6.8E-04

VEGET PATHWAY, DIST GP= 1, 814. METERS, WINDS TOWARD NNE
ADULT 6.5E-04 5.7E-04 1.9E-04 6.6E-04 5.7E-04 5.6E-04 5.4E-04 0.0E+00
TEEN 7.2E-04 6.5E-04 2.7E-04 8.1E-04 6.7E-04 6.3E-04 6.3E-04 0.0E+00
CHILD 1.1E-03 9.7E-04 5.4E-04 1.3E-03 1.0E-03 9.8E-04 9.7E-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, 7725. METERS, WINDS TOWARD NNE
ADULT 3.0E-06 3.1E-06 2.3E-07 3.1E-06 2.9E-06 2.9E-06 2.8E-06 0.0E+00
TEEN 1.8E-06 1.8E-06 1.8E-07 1.9E-06 1.7E-06 1.7E-06 1.7E-06 0.0E+00
CHILD 2.1E-06 2.1E-06 3.2E-07 2.3E-06 2.1E-06 2.1E-06 2.0E-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

COW PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NNE
ADULT 2.7E-05 2.0E-05 7.1E-06 3.0E-05 2.3E-05 3.0E-05 2.1E-05 0.0E+00
TEEN 3.3E-05 2.7E-05 1.3E-05 4.3E-05 3.2E-05 4.2E-05 2.8E-05 0.0E+00
CHILD 4.6E-05 4.1E-05 3.0E-05 7.0E-05 5.1E-05 7.2E-05 4.4E-05 0.0E+00
INFNT 6.7E-05 6.3E-05 4.7E-05 1.2E-04 7.8E-05 1.4E-04 6.8E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NNE
ADULT 6.1E-05 4.1E-05 2.1E-05 7.0E-05 5.1E-05 5.3E-05 4.4E-05 0.0E+00
TEEN 7.3E-05 5.4E-05 3.7E-05 1.0E-04 7.0E-05 7.2E-05 6.0E-05 0.0E+00
CHILD 9.8E-05 8.4E-05 8.7E-05 1.7E-04 1.1E-04 1.2E-04 9.4E-05 0.0E+00
INFNT 1.4E-04 1.3E-04 1.4E-04 3.0E-04 1.7E-04 2.2E-04 1.5E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 660. METERS, WINDS TOWARD NNE
ADULT 4.0E-04 4.0E-04 5.3E-06 4.0E-04 4.0E-04 4.1E-04 4.3E-04 0.0E+00
TEEN 4.1E-04 4.1E-04 6.3E-06 4.1E-04 4.1E-04 4.2E-04 4.5E-04 0.0E+00
CHILD 3.6E-04 3.6E-04 6.8E-06 3.6E-04 3.6E-04 3.8E-04 4.0E-04 0.0E+00
INFNT 2.1E-04 2.1E-04 3.4E-06 2.1E-04 2.1E-04 2.2E-04 2.3E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 1.7E-03 1.6E-03 8.1E-04 1.7E-03 1.6E-03 1.6E-03 1.6E-03 6.8E-04
TEEN 1.8E-03 1.7E-03 9.1E-04 1.9E-03 1.8E-03 1.7E-03 1.8E-03 6.8E-04
CHILD 2.1E-03 2.0E-03 1.2E-03 2.5E-03 2.1E-03 2.1E-03 2.1E-03 6.8E-04
INFNT 9.9E-04 9.8E-04 7.7E-04 1.2E-03 1.0E-03 1.2E-03 1.0E-03 6.8E-04

TOTALS

ADULT 2.3E-02 2.3E-02 2.2E-02 2.3E-02 2.3E-02 2.3E-02 2.3E-02 3.9E-02
TEEN 2.3E-02 2.3E-02 2.2E-02 2.3E-02 2.3E-02 2.3E-02 2.3E-02 3.9E-02
CHILD 2.3E-02 2.3E-02 2.2E-02 2.4E-02 2.3E-02 2.3E-02 2.3E-02 3.9E-02
INFNT 2.2E-02 2.2E-02 2.2E-02 2.2E-02 2.2E-02 2.2E-02 2.2E-02 3.9E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE
ADULT 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 1.6E-02
TEEN 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 1.6E-02
CHILD 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 1.6E-02
INFNT 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 8.9E-03 1.6E-02

GROUND PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE
ADULT 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 6.0E-04
TEEN 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 6.0E-04
CHILD 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 6.0E-04
INFNT 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 5.1E-04 6.0E-04

VEGET PATHWAY, DIST GP= 1, 1052. METERS, WINDS TOWARD NE
ADULT 3.7E-04 3.7E-04 8.7E-05 3.7E-04 3.3E-04 3.5E-04 3.2E-04 0.0E+00
TEEN 4.1E-04 4.2E-04 1.2E-04 4.5E-04 3.9E-04 3.9E-04 3.7E-04 0.0E+00
CHILD 6.2E-04 5.9E-04 2.4E-04 7.0E-04 6.0E-04 6.0E-04 5.7E-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, 7725. METERS, WINDS TOWARD NE
ADULT 2.3E-06 2.7E-06 1.5E-07 2.3E-06 2.2E-06 2.3E-06 2.1E-06 0.0E+00
TEEN 1.4E-06 1.6E-06 1.2E-07 1.4E-06 1.3E-06 1.4E-06 1.3E-06 0.0E+00
CHILD 1.7E-06 1.7E-06 2.1E-07 1.8E-06 1.6E-06 1.7E-06 1.6E-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, 3556. METERS, WINDS TOWARD NE
ADULT 2.1E-05 1.7E-05 4.6E-06 2.3E-05 1.9E-05 3.2E-05 1.7E-05 0.0E+00
TEEN 2.6E-05 2.2E-05 8.2E-06 3.3E-05 2.5E-05 4.5E-05 2.3E-05 0.0E+00
CHILD 3.8E-05 3.5E-05 1.9E-05 5.3E-05 4.0E-05 8.1E-05 3.6E-05 0.0E+00
INFNT 5.5E-05 5.2E-05 3.0E-05 8.9E-05 6.2E-05 1.7E-04 5.6E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NE
ADULT 4.7E-05 3.4E-05 1.3E-05 5.3E-05 4.0E-05 5.2E-05 3.6E-05 0.0E+00
TEEN 5.7E-05 4.5E-05 2.4E-05 7.7E-05 5.5E-05 7.2E-05 4.8E-05 0.0E+00
CHILD 7.9E-05 7.0E-05 5.7E-05 1.3E-04 8.8E-05 1.3E-04 7.6E-05 0.0E+00
INFNT 1.1E-04 1.1E-04 8.9E-05 2.2E-04 1.4E-04 2.4E-04 1.2E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE
ADULT 2.1E-04 2.1E-04 2.0E-06 2.1E-04 2.1E-04 2.1E-04 2.3E-04 0.0E+00
TEEN 2.1E-04 2.1E-04 2.3E-06 2.1E-04 2.1E-04 2.1E-04 2.4E-04 0.0E+00
CHILD 1.8E-04 1.8E-04 2.5E-06 1.8E-04 1.8E-04 1.9E-04 2.1E-04 0.0E+00
INFNT 1.1E-04 1.0E-04 1.2E-06 1.1E-04 1.1E-04 1.1E-04 1.2E-04 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 1.2E-03 1.1E-03 6.2E-04 1.2E-03 1.1E-03 1.2E-03 1.1E-03 6.0E-04
TEEN 1.2E-03 1.2E-03 6.7E-04 1.3E-03 1.2E-03 1.2E-03 1.2E-03 6.0E-04
CHILD 1.4E-03 1.4E-03 8.3E-04 1.6E-03 1.4E-03 1.5E-03 1.4E-03 6.0E-04
INFNT 7.9E-04 7.8E-04 6.3E-04 9.2E-04 8.1E-04 1.0E-03 8.1E-04 6.0E-04

TOTALS
ADULT 1.0E-02 1.0E-02 9.5E-03 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.7E-02
TEEN 1.0E-02 1.0E-02 9.5E-03 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.7E-02
CHILD 1.0E-02 1.0E-02 9.7E-03 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.7E-02
INFNT 9.7E-03 9.6E-03 9.5E-03 9.8E-03 9.7E-03 9.9E-03 9.7E-03 1.7E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 1747. METERS, WINDS TOWARD ENE
ADULT 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 6.8E-03
TEEN 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 6.8E-03
CHILD 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 6.8E-03
INFNT 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 3.8E-03 6.8E-03

GROUND PATHWAY, DIST GP= 1, 1747. METERS, WINDS TOWARD ENE
ADULT 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-04
TEEN 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-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
INFNT 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-04

VEGET PATHWAY, DIST GP= 1, 1852. METERS, WINDS TOWARD ENE
ADULT 1.4E-04 1.2E-04 6.7E-05 1.5E-04 1.2E-04 1.1E-04 1.1E-04 0.0E+00
TEEN 1.6E-04 1.3E-04 9.2E-05 1.8E-04 1.4E-04 1.3E-04 1.3E-04 0.0E+00
CHILD 2.2E-04 1.9E-04 1.8E-04 2.9E-04 2.2E-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

MEAT PATHWAY, DIST GP= 1, 3862. METERS, WINDS TOWARD ENE
ADULT 5.8E-06 5.9E-06 1.1E-06 6.1E-06 5.2E-06 5.1E-06 4.9E-06 0.0E+00
TEEN 3.3E-06 3.4E-06 8.4E-07 3.9E-06 3.2E-06 3.1E-06 2.9E-06 0.0E+00
CHILD 3.8E-06 3.7E-06 1.5E-06 4.8E-06 3.8E-06 3.8E-06 3.6E-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, 3556. METERS, WINDS TOWARD ENE
ADULT 2.2E-05 1.3E-05 9.4E-06 2.6E-05 1.7E-05 2.4E-05 1.4E-05 0.0E+00
TEEN 2.5E-05 1.7E-05 1.7E-05 3.9E-05 2.4E-05 3.5E-05 1.9E-05 0.0E+00
CHILD 3.3E-05 2.6E-05 3.9E-05 6.5E-05 3.8E-05 6.3E-05 3.0E-05 0.0E+00
INFNT 4.6E-05 4.0E-05 6.1E-05 1.1E-04 5.9E-05 1.3E-04 4.7E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ENE
ADULT 5.3E-05 2.6E-05 2.7E-05 6.4E-05 3.9E-05 4.0E-05 3.0E-05 0.0E+00
TEEN 5.9E-05 3.4E-05 4.9E-05 1.0E-04 5.6E-05 5.6E-05 4.2E-05 0.0E+00
CHILD 7.2E-05 5.3E-05 1.2E-04 1.7E-04 9.0E-05 9.7E-05 6.6E-05 0.0E+00
INFNT 9.8E-05 8.1E-05 1.8E-04 3.0E-04 1.4E-04 1.9E-04 1.0E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1747. METERS, WINDS TOWARD ENE
ADULT 6.3E-05 6.3E-05 9.2E-07 6.3E-05 6.3E-05 6.4E-05 6.5E-05 0.0E+00
TEEN 6.3E-05 6.3E-05 1.1E-06 6.3E-05 6.3E-05 6.5E-05 6.7E-05 0.0E+00
CHILD 5.6E-05 5.6E-05 1.2E-06 5.6E-05 5.6E-05 5.8E-05 5.9E-05 0.0E+00
INFNT 3.2E-05 3.2E-05 5.8E-07 3.2E-05 3.2E-05 3.4E-05 3.4E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 4.2E-04 3.5E-04 2.4E-04 4.4E-04 3.7E-04 3.8E-04 3.5E-04 1.5E-04
TEEN 4.4E-04 3.8E-04 2.9E-04 5.2E-04 4.2E-04 4.2E-04 3.9E-04 1.5E-04
CHILD 5.2E-04 4.6E-04 4.7E-04 7.2E-04 5.4E-04 5.5E-04 4.8E-04 1.5E-04
INFNT 3.1E-04 2.8E-04 3.8E-04 5.8E-04 3.6E-04 4.8E-04 3.2E-04 1.5E-04

TOTALS
ADULT 4.2E-03 4.2E-03 4.0E-03 4.2E-03 4.2E-03 4.2E-03 4.2E-03 7.0E-03
TEEN 4.2E-03 4.2E-03 4.1E-03 4.3E-03 4.2E-03 4.2E-03 4.2E-03 7.0E-03
CHILD 4.3E-03 4.3E-03 4.3E-03 4.5E-03 4.3E-03 4.4E-03 4.3E-03 7.0E-03
INFNT 4.1E-03 4.1E-03 4.2E-03 4.4E-03 4.2E-03 4.3E-03 4.1E-03 7.0E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 1716. METERS, WINDS TOWARD E
ADULT 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.7E-03 8.2E-03
TEEN 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.7E-03 8.2E-03
CHILD 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.7E-03 8.2E-03
INFNT 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.6E-03 4.7E-03 8.2E-03

GROUND PATHWAY, DIST GP= 1, 1716. METERS, WINDS TOWARD E
ADULT 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 9.2E-05
TEEN 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 9.2E-05
CHILD 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 9.2E-05
INFNT 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 7.9E-05 9.2E-05

VEGET PATHWAY, DIST GP= 1, 1705. METERS, WINDS TOWARD E
ADULT 1.6E-04 1.2E-04 8.2E-05 1.7E-04 1.3E-04 1.2E-04 1.2E-04 0.0E+00
TEEN 1.8E-04 1.4E-04 1.1E-04 2.1E-04 1.6E-04 1.4E-04 1.4E-04 0.0E+00
CHILD 2.5E-04 2.1E-04 2.3E-04 3.4E-04 2.5E-04 2.1E-04 2.2E-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, 6810. METERS, WINDS TOWARD E
ADULT 2.3E-06 2.0E-06 4.1E-07 2.4E-06 2.1E-06 2.0E-06 1.9E-06 0.0E+00
TEEN 1.3E-06 1.2E-06 3.2E-07 1.5E-06 1.3E-06 1.2E-06 1.2E-06 0.0E+00
CHILD 1.5E-06 1.4E-06 5.7E-07 1.9E-06 1.5E-06 1.4E-06 1.4E-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, 3556. METERS, WINDS TOWARD E
ADULT 2.2E-05 1.2E-05 1.0E-05 2.6E-05 1.7E-05 2.0E-05 1.4E-05 0.0E+00
TEEN 2.5E-05 1.6E-05 1.8E-05 4.0E-05 2.4E-05 2.8E-05 1.9E-05 0.0E+00
CHILD 3.2E-05 2.5E-05 4.3E-05 6.7E-05 3.9E-05 4.9E-05 3.0E-05 0.0E+00
INFNT 4.4E-05 3.8E-05 6.7E-05 1.2E-04 6.0E-05 9.5E-05 4.6E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD E
ADULT 5.4E-05 2.5E-05 3.0E-05 6.7E-05 3.9E-05 3.4E-05 2.9E-05 0.0E+00
TEEN 6.0E-05 3.3E-05 5.3E-05 1.1E-04 5.7E-05 4.6E-05 4.2E-05 0.0E+00
CHILD 7.2E-05 5.1E-05 1.3E-04 1.8E-04 9.2E-05 7.9E-05 6.5E-05 0.0E+00
INFNT 9.7E-05 7.8E-05 2.0E-04 3.2E-04 1.4E-04 1.5E-04 1.0E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1716. METERS, WINDS TOWARD E
ADULT 6.3E-05 6.2E-05 1.1E-06 6.3E-05 6.2E-05 6.3E-05 6.3E-05 0.0E+00
TEEN 6.3E-05 6.3E-05 1.2E-06 6.3E-05 6.3E-05 6.4E-05 6.4E-05 0.0E+00
CHILD 5.6E-05 5.6E-05 1.3E-06 5.6E-05 5.6E-05 5.7E-05 5.7E-05 0.0E+00
INFNT 3.2E-05 3.2E-05 6.6E-07 3.2E-05 3.2E-05 3.3E-05 3.3E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 3.8E-04 3.0E-04 2.0E-04 4.0E-04 3.3E-04 3.2E-04 3.1E-04 9.2E-05
TEEN 4.0E-04 3.3E-04 2.7E-04 5.0E-04 3.8E-04 3.5E-04 3.5E-04 9.2E-05
CHILD 4.9E-04 4.2E-04 4.8E-04 7.2E-04 5.1E-04 4.8E-04 4.5E-04 9.2E-05
INFNT 2.5E-04 2.3E-04 3.5E-04 5.5E-04 3.1E-04 3.5E-04 2.6E-04 9.2E-05

TOTALS
ADULT 5.0E-03 4.9E-03 4.8E-03 5.0E-03 5.0E-03 5.0E-03 5.0E-03 8.3E-03
TEEN 5.0E-03 5.0E-03 4.9E-03 5.1E-03 5.0E-03 5.0E-03 5.0E-03 8.3E-03
CHILD 5.1E-03 5.0E-03 5.1E-03 5.4E-03 5.1E-03 5.1E-03 5.1E-03 8.3E-03
INFNT 4.9E-03 4.9E-03 5.0E-03 5.2E-03 4.9E-03 5.0E-03 4.9E-03 8.3E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 1643. METERS, WINDS TOWARD ESE
ADULT 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 6.0E-03
TEEN 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 6.0E-03
CHILD 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 6.0E-03
INFNT 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 3.3E-03 6.0E-03

GROUND PATHWAY, DIST GP= 1, 1643. METERS, WINDS TOWARD ESE
ADULT 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 9.7E-05
TEEN 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 9.7E-05
CHILD 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 9.7E-05
INFNT 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 8.3E-05 9.7E-05

VEGET PATHWAY, DIST GP= 1, 1628. METERS, WINDS TOWARD ESE
ADULT 1.5E-04 1.1E-04 8.0E-05 1.6E-04 1.3E-04 1.1E-04 1.1E-04 0.0E+00
TEEN 1.7E-04 1.3E-04 1.1E-04 2.1E-04 1.5E-04 1.3E-04 1.3E-04 0.0E+00
CHILD 2.4E-04 1.9E-04 2.3E-04 3.3E-04 2.3E-04 2.0E-04 2.1E-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, 2434. METERS, WINDS TOWARD ESE
ADULT 1.0E-05 8.9E-06 2.2E-06 1.1E-05 9.0E-06 8.5E-06 8.4E-06 0.0E+00
TEEN 5.8E-06 5.2E-06 1.8E-06 7.1E-06 5.6E-06 5.1E-06 5.1E-06 0.0E+00
CHILD 6.5E-06 6.0E-06 3.1E-06 8.8E-06 6.8E-06 6.3E-06 6.2E-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, 3556. METERS, WINDS TOWARD ESE
ADULT 2.0E-05 1.1E-05 9.5E-06 2.4E-05 1.5E-05 1.7E-05 1.2E-05 0.0E+00
TEEN 2.3E-05 1.4E-05 1.7E-05 3.7E-05 2.2E-05 2.4E-05 1.7E-05 0.0E+00
CHILD 2.8E-05 2.2E-05 4.0E-05 6.1E-05 3.5E-05 4.3E-05 2.6E-05 0.0E+00
INFNT 3.9E-05 3.3E-05 6.3E-05 1.1E-04 5.3E-05 8.4E-05 4.1E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ESE
ADULT 4.9E-05 2.2E-05 2.8E-05 6.1E-05 3.5E-05 3.0E-05 2.6E-05 0.0E+00
TEEN 5.4E-05 2.9E-05 5.0E-05 9.7E-05 5.1E-05 4.1E-05 3.7E-05 0.0E+00
CHILD 6.4E-05 4.5E-05 1.2E-04 1.6E-04 8.2E-05 7.0E-05 5.8E-05 0.0E+00
INFNT 8.6E-05 6.8E-05 1.9E-04 3.0E-04 1.3E-04 1.3E-04 9.2E-05 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1643. METERS, WINDS TOWARD ESE
ADULT 5.9E-05 5.8E-05 1.1E-06 5.9E-05 5.9E-05 6.0E-05 5.9E-05 0.0E+00
TEEN 5.9E-05 5.9E-05 1.3E-06 5.9E-05 5.9E-05 6.0E-05 6.0E-05 0.0E+00
CHILD 5.2E-05 5.2E-05 1.5E-06 5.3E-05 5.2E-05 5.4E-05 5.3E-05 0.0E+00
INFNT 3.0E-05 3.0E-05 7.3E-07 3.0E-05 3.0E-05 3.2E-05 3.1E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 3.8E-04 3.0E-04 2.0E-04 4.0E-04 3.3E-04 3.1E-04 3.0E-04 9.7E-05
TEEN 3.9E-04 3.2E-04 2.6E-04 4.9E-04 3.7E-04 3.4E-04 3.4E-04 9.7E-05
CHILD 4.7E-04 4.0E-04 4.7E-04 7.0E-04 4.9E-04 4.5E-04 4.3E-04 9.7E-05
INFNT 2.4E-04 2.1E-04 3.3E-04 5.2E-04 2.9E-04 3.3E-04 2.5E-04 9.7E-05

TOTALS
ADULT 3.6E-03 3.6E-03 3.5E-03 3.7E-03 3.6E-03 3.6E-03 3.6E-03 6.1E-03
TEEN 3.7E-03 3.6E-03 3.5E-03 3.7E-03 3.6E-03 3.6E-03 3.6E-03 6.1E-03
CHILD 3.7E-03 3.7E-03 3.7E-03 4.0E-03 3.8E-03 3.7E-03 3.7E-03 6.1E-03
INFNT 3.5E-03 3.5E-03 3.6E-03 3.8E-03 3.6E-03 3.6E-03 3.5E-03 6.1E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 1136. METERS, WINDS TOWARD SE
ADULT 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 1.1E-02
TEEN 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 1.1E-02
CHILD 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 1.1E-02
INFNT 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 5.9E-03 1.1E-02

GROUND PATHWAY, DIST GP= 1, 1136. METERS, WINDS TOWARD SE
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 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.3E-04
CHILD 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.3E-04
INFNT 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.1E-04 1.3E-04

VEGET PATHWAY, DIST GP= 1, 914. METERS, WINDS TOWARD SE
ADULT 3.9E-04 3.1E-04 1.6E-04 4.0E-04 3.3E-04 3.1E-04 3.1E-04 0.0E+00
TEEN 4.3E-04 3.5E-04 2.3E-04 5.0E-04 4.0E-04 3.5E-04 3.6E-04 0.0E+00
CHILD 6.2E-04 5.4E-04 4.6E-04 8.0E-04 6.2E-04 5.5E-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

MEAT PATHWAY, DIST GP= 1, 4354. METERS, WINDS TOWARD SE
ADULT 4.3E-06 3.8E-06 6.5E-07 4.5E-06 3.9E-06 3.8E-06 3.7E-06 0.0E+00
TEEN 2.5E-06 2.3E-06 5.2E-07 2.8E-06 2.4E-06 2.3E-06 2.3E-06 0.0E+00
CHILD 2.8E-06 2.7E-06 9.2E-07 3.5E-06 2.9E-06 2.8E-06 2.7E-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, 3556. METERS, WINDS TOWARD SE
ADULT 1.9E-05 1.2E-05 7.1E-06 2.1E-05 1.5E-05 1.7E-05 1.3E-05 0.0E+00
TEEN 2.2E-05 1.5E-05 1.3E-05 3.2E-05 2.1E-05 2.4E-05 1.7E-05 0.0E+00
CHILD 2.9E-05 2.4E-05 3.0E-05 5.3E-05 3.4E-05 4.1E-05 2.7E-05 0.0E+00
INFNT 4.1E-05 3.7E-05 4.7E-05 9.3E-05 5.2E-05 7.8E-05 4.2E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SE
ADULT 4.4E-05 2.4E-05 2.1E-05 5.3E-05 3.4E-05 3.0E-05 2.7E-05 0.0E+00
TEEN 5.1E-05 3.2E-05 3.7E-05 8.3E-05 4.8E-05 4.1E-05 3.8E-05 0.0E+00
CHILD 6.3E-05 4.9E-05 8.8E-05 1.4E-04 7.7E-05 6.9E-05 5.9E-05 0.0E+00
INFNT 8.8E-05 7.5E-05 1.4E-04 2.4E-04 1.2E-04 1.2E-04 9.3E-05 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1136. METERS, WINDS TOWARD SE
ADULT 1.2E-04 1.2E-04 2.2E-06 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00
TEEN 1.2E-04 1.2E-04 2.6E-06 1.2E-04 1.2E-04 1.2E-04 1.2E-04 0.0E+00
CHILD 1.0E-04 1.0E-04 2.9E-06 1.0E-04 1.0E-04 1.1E-04 1.1E-04 0.0E+00
INFNT 5.9E-05 5.9E-05 1.4E-06 6.0E-05 5.9E-05 6.2E-05 6.1E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 6.9E-04 5.7E-04 3.0E-04 7.1E-04 6.1E-04 5.9E-04 5.8E-04 1.3E-04
TEEN 7.3E-04 6.3E-04 3.9E-04 8.5E-04 6.9E-04 6.5E-04 6.5E-04 1.3E-04
CHILD 9.3E-04 8.2E-04 6.9E-04 1.2E-03 9.4E-04 8.7E-04 8.6E-04 1.3E-04
INFNT 3.0E-04 2.8E-04 3.0E-04 5.1E-04 3.4E-04 3.7E-04 3.0E-04 1.3E-04

TOTALS
ADULT 6.6E-03 6.4E-03 6.2E-03 6.6E-03 6.5E-03 6.5E-03 6.5E-03 1.1E-02
TEEN 6.6E-03 6.5E-03 6.3E-03 6.7E-03 6.6E-03 6.5E-03 6.6E-03 1.1E-02
CHILD 6.8E-03 6.7E-03 6.6E-03 7.1E-03 6.8E-03 6.8E-03 6.8E-03 1.1E-02
INFNT 6.2E-03 6.2E-03 6.2E-03 6.4E-03 6.2E-03 6.2E-03 6.2E-03 1.1E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 1507. METERS, WINDS TOWARD SSE
ADULT 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 8.9E-03
TEEN 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 8.9E-03
CHILD 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 8.9E-03
INFNT 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 4.7E-03 8.9E-03

GROUND PATHWAY, DIST GP= 1, 1507. METERS, WINDS TOWARD SSE
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 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.2E-04
CHILD 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.2E-04
INFNT 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.0E-04 1.2E-04

VEGET PATHWAY, DIST GP= 1, 1093. METERS, WINDS TOWARD SSE
ADULT 4.0E-04 3.1E-04 1.7E-04 4.2E-04 3.4E-04 3.1E-04 3.1E-04 0.0E+00
TEEN 4.4E-04 3.5E-04 2.4E-04 5.3E-04 4.0E-04 3.5E-04 3.7E-04 0.0E+00
CHILD 6.3E-04 5.4E-04 4.8E-04 8.4E-04 6.3E-04 5.5E-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

MEAT PATHWAY, DIST GP= 1, 1093. METERS, WINDS TOWARD SSE
ADULT 5.2E-05 4.5E-05 9.4E-06 5.5E-05 4.7E-05 4.5E-05 4.4E-05 0.0E+00
TEEN 3.0E-05 2.7E-05 7.5E-06 3.5E-05 2.9E-05 2.7E-05 2.7E-05 0.0E+00
CHILD 3.3E-05 3.2E-05 1.3E-05 4.4E-05 3.5E-05 3.3E-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, 3556. METERS, WINDS TOWARD SSE
ADULT 2.6E-05 1.6E-05 1.1E-05 3.1E-05 2.1E-05 2.3E-05 1.8E-05 0.0E+00
TEEN 3.1E-05 2.1E-05 1.9E-05 4.7E-05 3.0E-05 3.3E-05 2.4E-05 0.0E+00
CHILD 4.1E-05 3.3E-05 4.5E-05 7.8E-05 4.8E-05 5.7E-05 3.8E-05 0.0E+00
INFNT 5.7E-05 5.0E-05 7.1E-05 1.4E-04 7.3E-05 1.1E-04 5.9E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSE
ADULT 6.4E-05 3.4E-05 3.2E-05 7.8E-05 4.8E-05 4.2E-05 3.8E-05 0.0E+00
TEEN 7.2E-05 4.4E-05 5.7E-05 1.2E-04 6.9E-05 5.7E-05 5.3E-05 0.0E+00
CHILD 8.9E-05 6.8E-05 1.3E-04 2.0E-04 1.1E-04 9.5E-05 8.2E-05 0.0E+00
INFNT 1.2E-04 1.0E-04 2.1E-04 3.6E-04 1.7E-04 1.7E-04 1.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1507. METERS, WINDS TOWARD SSE
ADULT 1.0E-04 9.9E-05 2.0E-06 1.0E-04 9.9E-05 1.0E-04 1.0E-04 0.0E+00
TEEN 1.0E-04 1.0E-04 2.4E-06 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00
CHILD 8.9E-05 8.8E-05 2.6E-06 8.9E-05 8.9E-05 9.2E-05 9.1E-05 0.0E+00
INFNT 5.1E-05 5.1E-05 1.3E-06 5.2E-05 5.1E-05 5.4E-05 5.2E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 7.5E-04 6.1E-04 3.3E-04 7.8E-04 6.5E-04 6.3E-04 6.1E-04 1.2E-04
TEEN 7.7E-04 6.5E-04 4.3E-04 9.3E-04 7.3E-04 6.7E-04 6.7E-04 1.2E-04
CHILD 9.8E-04 8.6E-04 7.8E-04 1.4E-03 1.0E-03 9.2E-04 9.1E-04 1.2E-04
INFNT 3.3E-04 3.1E-04 3.9E-04 6.5E-04 4.0E-04 4.3E-04 3.4E-04 1.2E-04

TOTALS

ADULT 5.4E-03 5.3E-03 5.0E-03 5.5E-03 5.3E-03 5.3E-03 5.4E-03 9.0E-03
TEEN 5.5E-03 5.3E-03 5.1E-03 5.6E-03 5.4E-03 5.4E-03 5.4E-03 9.0E-03
CHILD 5.7E-03 5.5E-03 5.5E-03 6.0E-03 5.7E-03 5.6E-03 5.6E-03 9.0E-03
INFNT 5.0E-03 5.0E-03 5.1E-03 5.3E-03 5.1E-03 5.1E-03 5.1E-03 9.0E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	6.0E-03	1.1E-02
TEEN	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	6.0E-03	1.1E-02
CHILD	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	6.0E-03	1.1E-02
INFNT	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	5.9E-03	6.0E-03	1.1E-02

GROUND PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04
TEEN	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04
CHILD	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04
INFNT	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04

VEGET PATHWAY, DIST GP= 1, 863. METERS, WINDS TOWARD S

ADULT	4.2E-04	3.0E-04	2.2E-04	4.5E-04	3.4E-04	3.1E-04	3.0E-04	0.0E+00
TEEN	4.5E-04	3.5E-04	3.0E-04	5.7E-04	4.1E-04	3.4E-04	3.6E-04	0.0E+00
CHILD	6.3E-04	5.2E-04	6.2E-04	9.2E-04	6.4E-04	5.3E-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

MEAT PATHWAY, DIST GP= 1, 6115. METERS, WINDS TOWARD S

ADULT	2.4E-06	2.1E-06	4.5E-07	2.5E-06	2.2E-06	2.0E-06	2.0E-06	0.0E+00
TEEN	1.4E-06	1.2E-06	3.6E-07	1.6E-06	1.3E-06	1.2E-06	1.2E-06	0.0E+00
CHILD	1.5E-06	1.4E-06	6.4E-07	2.0E-06	1.6E-06	1.5E-06	1.5E-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, 3556. METERS, WINDS TOWARD S

ADULT	2.0E-05	1.1E-05	9.5E-06	2.4E-05	1.5E-05	1.6E-05	1.2E-05	0.0E+00
TEEN	2.2E-05	1.4E-05	1.7E-05	3.7E-05	2.1E-05	2.3E-05	1.7E-05	0.0E+00
CHILD	2.8E-05	2.2E-05	4.0E-05	6.1E-05	3.4E-05	4.0E-05	2.6E-05	0.0E+00
INFNT	3.9E-05	3.3E-05	6.3E-05	1.1E-04	5.3E-05	7.8E-05	4.1E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD S

ADULT	4.9E-05	2.2E-05	2.8E-05	6.1E-05	3.5E-05	2.8E-05	2.6E-05	0.0E+00
TEEN	5.4E-05	2.9E-05	5.0E-05	9.7E-05	5.1E-05	3.9E-05	3.7E-05	0.0E+00
CHILD	6.3E-05	4.4E-05	1.2E-04	1.6E-04	8.2E-05	6.6E-05	5.7E-05	0.0E+00
INFNT	8.5E-05	6.7E-05	1.9E-04	3.0E-04	1.3E-04	1.2E-04	9.1E-05	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	1.2E-04	1.2E-04	2.4E-06	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
TEEN	1.2E-04	1.2E-04	2.8E-06	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
CHILD	1.1E-04	1.1E-04	3.1E-06	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
INFNT	6.2E-05	6.1E-05	1.5E-06	6.2E-05	6.2E-05	6.5E-05	6.3E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	7.9E-04	6.3E-04	4.3E-04	8.3E-04	6.9E-04	6.5E-04	6.4E-04	2.0E-04
TEEN	8.3E-04	6.8E-04	5.5E-04	1.0E-03	7.8E-04	7.1E-04	7.1E-04	2.0E-04
CHILD	1.0E-03	8.7E-04	9.6E-04	1.4E-03	1.0E-03	9.3E-04	9.2E-04	2.0E-04
INFNT	3.6E-04	3.3E-04	4.3E-04	6.4E-04	4.2E-04	4.4E-04	3.7E-04	2.0E-04

TOTALS

ADULT	6.7E-03	6.6E-03	6.4E-03	6.8E-03	6.6E-03	6.6E-03	6.6E-03	1.1E-02
TEEN	6.8E-03	6.6E-03	6.5E-03	6.9E-03	6.7E-03	6.6E-03	6.7E-03	1.1E-02
CHILD	6.9E-03	6.8E-03	6.9E-03	7.4E-03	7.0E-03	6.9E-03	6.9E-03	1.1E-02
INFNT	6.3E-03	6.3E-03	6.4E-03	6.6E-03	6.3E-03	6.4E-03	6.4E-03	1.1E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 1 1 1 THRU 93 33124

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

PLUME PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW
ADULT 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 7.5E-03
TEEN 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 7.5E-03
CHILD 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 7.5E-03
INFNT 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 4.0E-03 7.5E-03

GROUND PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW
ADULT 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.7E-04
TEEN 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.7E-04
CHILD 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.7E-04
INFNT 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.5E-04 1.7E-04

VEGET PATHWAY, DIST GP= 1, 770. METERS, WINDS TOWARD SSW
ADULT 3.0E-04 2.0E-04 1.7E-04 3.2E-04 2.3E-04 2.0E-04 2.0E-04 0.0E+00
TEEN 3.1E-04 2.3E-04 2.5E-04 4.1E-04 2.8E-04 2.2E-04 2.4E-04 0.0E+00
CHILD 4.3E-04 3.4E-04 5.0E-04 6.6E-04 4.4E-04 3.5E-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 SSW
ADULT 8.7E-07 7.6E-07 1.9E-07 9.4E-07 7.7E-07 7.2E-07 7.2E-07 0.0E+00
TEEN 4.9E-07 4.5E-07 1.5E-07 6.1E-07 4.8E-07 4.3E-07 4.4E-07 0.0E+00
CHILD 5.5E-07 5.2E-07 2.7E-07 7.6E-07 5.8E-07 5.3E-07 5.3E-07 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, 3556. METERS, WINDS TOWARD SSW
ADULT 1.2E-05 5.9E-06 6.5E-06 1.5E-05 8.7E-06 9.6E-06 6.7E-06 0.0E+00
TEEN 1.3E-05 7.7E-06 1.2E-05 2.3E-05 1.3E-05 1.4E-05 9.5E-06 0.0E+00
CHILD 1.6E-05 1.2E-05 2.7E-05 3.9E-05 2.0E-05 2.4E-05 1.5E-05 0.0E+00
INFNT 2.2E-05 1.8E-05 4.3E-05 7.0E-05 3.2E-05 4.8E-05 2.3E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSW
ADULT 3.0E-05 1.2E-05 1.9E-05 3.9E-05 2.1E-05 1.6E-05 1.5E-05 0.0E+00
TEEN 3.3E-05 1.6E-05 3.4E-05 6.2E-05 3.1E-05 2.3E-05 2.1E-05 0.0E+00
CHILD 3.7E-05 2.4E-05 8.1E-05 1.0E-04 5.0E-05 3.9E-05 3.3E-05 0.0E+00
INFNT 4.9E-05 3.7E-05 1.3E-04 1.9E-04 7.8E-05 7.3E-05 5.3E-05 0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW
ADULT 7.5E-05 7.5E-05 1.7E-06 7.5E-05 7.5E-05 7.6E-05 7.6E-05 0.0E+00
TEEN 7.5E-05 7.5E-05 2.0E-06 7.6E-05 7.5E-05 7.7E-05 7.8E-05 0.0E+00
CHILD 6.7E-05 6.6E-05 2.2E-06 6.7E-05 6.7E-05 6.9E-05 6.9E-05 0.0E+00
INFNT 3.8E-05 3.8E-05 1.1E-06 3.9E-05 3.8E-05 4.1E-05 4.0E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 5.6E-04 4.4E-04 3.5E-04 5.9E-04 4.8E-04 4.5E-04 4.4E-04 1.7E-04
TEEN 5.8E-04 4.7E-04 4.4E-04 7.2E-04 5.4E-04 4.8E-04 4.9E-04 1.7E-04
CHILD 6.9E-04 5.9E-04 7.6E-04 1.0E-03 7.2E-04 6.3E-04 6.3E-04 1.7E-04
INFNT 2.5E-04 2.4E-04 3.2E-04 4.5E-04 2.9E-04 3.1E-04 2.6E-04 1.7E-04

TOTALS

ADULT 4.6E-03 4.4E-03 4.4E-03 4.6E-03 4.5E-03 4.5E-03 4.5E-03 7.7E-03
TEEN 4.6E-03 4.5E-03 4.4E-03 4.7E-03 4.6E-03 4.5E-03 4.5E-03 7.7E-03
CHILD 4.7E-03 4.6E-03 4.8E-03 5.0E-03 4.7E-03 4.6E-03 4.7E-03 7.7E-03
INFNT 4.3E-03 4.2E-03 4.3E-03 4.5E-03 4.3E-03 4.3E-03 4.3E-03 7.7E-03

APPENDIX 1.3

Summary of Maximum Individual Doses
Second Quarter, 1993

SUMMARY OF MAXIMUM INDIVIDUAL DOSES

2nd Quarter 1993

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mRem)	AGE GROUP	LOCATION DIST DIR (M) (Toward)	% OF APPLICABLE LIMIT	LIMIT (mRem) QTR
Liquid	Total Body	1.78E-2	Adult	Receptor 1	1.19E+0	1.5E+0
Liquid	GI Tract	3.42E-2	Adult	Receptor 1	6.84E-1	5.0E+0
Noble Gas	Air Dose (Gamma-mrad)	1.83E-2		651 N	3.66E-1	5.0E+0
Noble Gas	Air dose (Beta-mrad)	4.84E-2		651 N	4.84E-1	1.0E+1
Iodines and Particulates	Liver	4.29E-3	Child	659 N	5.72E-2	7.5E+0

LIQUID DOSE ACCUMULATIONS(MREM)

START DATE 93 4 1 1 END DATE 93 63024

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
WATER								
ADULT	1.1E-04	3.9E-03	3.9E-03	3.9E-03	3.8E-03	3.8E-03	4.3E-03	0.0E+00
TEEN	9.8E-05	2.8E-03	2.7E-03	2.7E-03	2.7E-03	2.7E-03	3.0E-03	0.0E+00
CHILD	2.7E-04	5.4E-03	5.2E-03	5.3E-03	5.2E-03	5.1E-03	5.4E-03	0.0E+00
INFANT	2.7E-04	5.3E-03	5.1E-03	5.4E-03	5.1E-03	5.0E-03	5.2E-03	0.0E+00

SHORE

ADULT	9.7E-05	9.7E-05	9.7E-05	9.7E-05	9.7E-05	9.7E-05	9.7E-05	1.1E-04
TEEN	5.4E-04	5.4E-04	5.4E-04	5.4E-04	5.4E-04	5.4E-04	5.4E-04	6.3E-04
CHILD	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-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	1.1E-02	1.9E-02	1.4E-02	3.6E-04	6.8E-03	2.3E-03	3.0E-02	0.0E+00
TEEN	1.2E-02	2.0E-02	8.1E-03	3.0E-04	6.9E-03	2.6E-03	2.1E-02	0.0E+00
CHILD	1.5E-02	1.7E-02	3.5E-03	2.8E-04	5.8E-03	2.1E-03	7.6E-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

TOTAL

ADULT	1.2E-02	2.3E-02	1.8E-02	4.3E-03	1.1E-02	6.2E-03	3.4E-02	1.1E-04
TEEN	1.3E-02	2.3E-02	1.1E-02	3.6E-03	1.0E-02	5.8E-03	2.5E-02	6.3E-04
CHILD	1.5E-02	2.3E-02	8.8E-03	5.7E-03	1.1E-02	7.3E-03	1.3E-02	1.3E-04
INFANT	2.7E-04	5.3E-03	5.1E-03	5.4E-03	5.1E-03	5.0E-03	5.2E-03	0.0E+00

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 93 4 1 1 0 TO 93 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				
4.4275E-07	4.3149E-08	2.3401E-08	1.5192E-08	1.1121E-08
5.9572E-09	2.5328E-09	1.2799E-09	8.2243E-10	5.3891E-10
**DIRECTION FROM E				
5.6574E-07	5.5135E-08	2.9901E-08	1.9412E-08	1.4211E-08
7.6119E-09	3.2364E-09	1.6355E-09	1.0509E-09	6.8860E-10
**DIRECTION FROM ESE				
3.9517E-06	4.5045E-07	2.0171E-07	1.1587E-07	7.8837E-08
3.6786E-08	1.2893E-08	5.9770E-09	3.6326E-09	2.1228E-09
**DIRECTION FROM SE				
7.8333E-07	7.6341E-08	4.1401E-08	2.6878E-08	1.9676E-08
1.0540E-08	4.4812E-09	2.2645E-09	1.4551E-09	9.5345E-10
**DIRECTION FROM SSE				
1.4858E-07	2.0808E-08	9.4700E-09	5.4410E-09	3.8293E-09
1.9492E-09	7.5518E-10	3.7238E-10	2.3743E-10	1.4811E-10
DIRECTION FROM S				
5.5185E-05	4.4091E-06	2.3905E-06	1.5517E-06	1.1358E-06
6.0822E-07	2.5856E-07	1.3067E-07	8.3968E-08	5.5014E-08
**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				
1.5972E-07	2.2369E-08	1.0180E-08	5.8491E-09	4.1165E-09
2.0954E-09	8.1182E-10	4.0031E-10	2.5524E-10	1.5922E-10
**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
**DIRECTION FROM W				
6.1607E-07	2.0159E-08	7.4200E-09	4.7153E-09	3.5763E-09
2.1457E-09	1.0728E-09	6.4370E-10	4.5978E-10	3.2165E-10
**DIRECTION FROM WNW				
5.0715E-06	5.8678E-07	2.5791E-07	1.4608E-07	9.8456E-08
4.5029E-08	1.5253E-08	6.9457E-09	4.1684E-09	2.3667E-09
**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
2067.0 24135.0 40225.0 56315.0 80500.0

;FOR RELEASE POINT 2

**DIRECTION FROM N

8.6057E-03	9.5042E-04	4.3673E-04	2.5618E-04	1.7855E-04
8.8292E-05	3.3793E-05	1.6741E-05	1.0718E-05	6.7273E-06

**DIRECTION FROM NNE

5.5323E-03	6.3817E-04	3.0733E-04	1.8583E-04	1.3109E-04
6.6027E-05	2.6072E-05	1.2972E-05	8.2929E-06	5.2309E-06

**DIRECTION FROM NE

6.5715E-03	7.9010E-04	3.6998E-04	2.1869E-04	1.5335E-04
7.6659E-05	2.9628E-05	1.4574E-05	9.2607E-06	5.7906E-06

**DIRECTION FROM ENE

9.0804E-03	1.0517E-03	5.1921E-04	3.1862E-04	2.2663E-04
1.1588E-04	4.6732E-05	2.3463E-05	1.5091E-05	9.6320E-06

**DIRECTION FROM E

1.3306E-02	1.5491E-03	7.6910E-04	4.7366E-04	3.3712E-04
1.7248E-04	6.9751E-05	3.5078E-05	2.2587E-05	1.4431E-05

**DIRECTION FROM ESE

1.9099E-02	2.2457E-03	1.1053E-03	6.7621E-04	4.8097E-04
2.4608E-04	9.9057E-05	4.9636E-05	3.1875E-05	2.0310E-05

**DIRECTION FROM SE

1.7358E-02	1.9675E-03	9.6157E-04	5.8581E-04	4.1632E-04
2.1269E-04	8.5059E-05	4.2326E-05	2.7038E-05	1.7203E-05

**DIRECTION FROM SSE

1.6933E-02	1.8678E-03	9.2465E-04	5.6894E-04	4.0527E-04
2.0761E-04	8.3733E-05	4.1888E-05	2.6848E-05	1.7161E-05

**DIRECTION FROM S

2.1072E-02	2.3476E-03	1.1685E-03	7.2068E-04	5.1444E-04
2.6457E-04	1.0708E-04	5.3537E-05	3.4287E-05	2.1936E-05

**DIRECTION FROM SSW

9.3236E-03	1.0642E-03	5.2268E-04	3.1970E-04	2.2698E-04
1.1562E-04	4.6302E-05	2.3112E-05	1.4800E-05	9.4162E-06

**DIRECTION FROM SW

1.0877E-02	1.2756E-03	6.2245E-04	3.7947E-04	2.6830E-04
1.3561E-04	5.4084E-05	2.7131E-05	1.7456E-05	1.1078E-05

**DIRECTION FROM WSW

6.2542E-03	7.3620E-04	3.4217E-04	2.0173E-04	1.4122E-04
7.0461E-05	2.7282E-05	1.3554E-05	8.6882E-06	5.4577E-06

**DIRECTION FROM W

7.5067E-03	8.7884E-04	4.1926E-04	2.5199E-04	1.7682E-04
8.8181E-05	3.4517E-05	1.7221E-05	1.1055E-05	6.9625E-06

**DIRECTION FROM WNW

5.7937E-03	6.5242E-04	3.0758E-04	1.8338E-04	1.2869E-04
6.4313E-05	2.5058E-05	1.2470E-05	7.9886E-06	5.0350E-06

**DIRECTION FROM NW

7.1885E-03	8.6321E-04	4.1392E-04	2.4914E-04	1.7611E-04
8.9352E-05	3.5589E-05	1.7929E-05	1.1580E-05	7.3510E-06

**DIRECTION FROM NNW

8.6066E-03	9.3317E-04	4.4911E-04	2.7180E-04	1.9262E-04
9.8101E-05	3.9197E-05	1.9713E-05	1.2708E-05	8.1222E-06

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 93 4 1 1 0 TO 93 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	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	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	0.0000E+00	0.0000E+00
**DIRECTION FROM ENE					
4.7942E-05	4.6722E-06	2.5338E-06	1.6450E-06	1.2042E-06	
6.4505E-07	2.7426E-07	1.3859E-07	8.9054E-08	5.8354E-08	
**DIRECTION FROM E					
6.1259E-05	5.9701E-06	3.2377E-06	2.1019E-06	1.5388E-06	
8.2423E-07	3.5044E-07	1.7709E-07	1.1379E-07	7.4563E-08	
**DIRECTION FROM ESE					
4.3762E-04	4.9900E-05	2.2335E-05	1.2827E-05	8.7252E-06	
4.0695E-06	1.4252E-06	6.6050E-07	4.0133E-07	2.3439E-07	
**DIRECTION FROM SE					
8.4820E-05	8.2663E-06	4.4830E-06	2.9103E-06	2.1306E-06	
1.1412E-06	4.8523E-07	2.4521E-07	1.5756E-07	1.0324E-07	
**DIRECTION FROM SSE					
1.6088E-05	2.2532E-06	1.0254E-06	5.8916E-07	4.1464E-07	
2.1106E-07	8.1772E-08	4.0322E-08	2.5709E-08	1.6038E-08	
**DIRECTION FROM S					
8.908E-03	4.7724E-04	2.5875E-04	1.6796E-04	1.2294E-04	
8.5834E-05	2.7986E-05	1.4144E-05	9.0887E-06	5.9547E-06	
**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	0.0000E+00	0.0000E+00
**DIRECTION FROM SW					
1.7295E-05	2.4222E-06	1.1023E-06	6.3334E-07	4.4574E-07	
2.2689E-07	8.7905E-08	4.3346E-08	2.7637E-08	1.7241E-08	
**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	0.0000E+00	0.0000E+00
**DIRECTION FROM W					
6.8646E-05	2.2463E-06	8.2677E-07	5.2540E-07	3.9849E-07	
2.3909E-07	1.1954E-07	7.1724E-08	5.1231E-08	3.5840E-08	
**DIRECTION FROM WNW					
5.6509E-04	6.5382E-05	2.8737E-05	1.6277E-05	1.0970E-05	
5.0173E-06	1.6996E-06	7.7392E-07	4.6446E-07	2.6371E-07	
**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	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	0.0000E+00	0.0000E+00

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0
1067.0 24135.0 40225.0 56315.0 80500.0

;FOR RELEASE POINT 2

**DIRECTION FROM N

2.0797E-02	2.2977E-03	1.0555E-03	6.1901E-04	4.3138E-04
2.1328E-04	8.1614E-05	4.0432E-05	2.5886E-05	1.6246E-05

**DIRECTION FROM NNE

1.3461E-02	1.5515E-03	7.4754E-04	4.5219E-04	3.1902E-04
1.6069E-04	6.3472E-05	3.1584E-05	2.0193E-05	1.2739E-05

**DIRECTION FROM NE

1.5940E-02	1.9149E-03	8.9701E-04	5.3037E-04	3.7193E-04
1.8592E-04	7.1865E-05	3.5352E-05	2.2463E-05	1.4047E-05

**DIRECTION FROM ENE

2.2046E-02	2.5549E-03	1.2609E-03	7.7355E-04	5.5016E-04
2.8128E-04	1.1341E-04	5.6935E-05	3.6619E-05	2.3371E-05

**DIRECTION FROM E

3.2202E-02	3.7505E-03	1.8615E-03	1.1462E-03	8.1572E-04
4.1726E-04	1.6870E-04	8.4836E-05	5.4627E-05	3.4899E-05

**DIRECTION FROM ESE

4.6171E-02	5.4304E-03	2.6721E-03	1.6346E-03	1.1625E-03
5.9473E-04	2.3937E-04	1.1994E-04	7.7021E-05	4.9073E-05

**DIRECTION FROM SE

4.1748E-02	4.7338E-03	2.3131E-03	1.4090E-03	1.0013E-03
5.1148E-04	2.0453E-04	1.0178E-04	6.5015E-05	4.1363E-05

**DIRECTION FROM SSE

4.1005E-02	4.5252E-03	2.2400E-03	1.3782E-03	9.8170E-04
5.0287E-04	2.0281E-04	1.0146E-04	6.5032E-05	4.1566E-05

**DIRECTION FROM S

5.0994E-02	5.6838E-03	2.8283E-03	1.7441E-03	1.2449E-03
6.4014E-04	2.5903E-04	1.2950E-04	8.2939E-05	5.3057E-05

**DIRECTION FROM SSW

2.2596E-02	2.5794E-03	1.2666E-03	7.7466E-04	5.4997E-04
2.8012E-04	1.1217E-04	5.5987E-05	3.5852E-05	2.2809E-05

**DIRECTION FROM SW

2.6314E-02	3.0831E-03	1.5045E-03	9.1724E-04	6.4854E-04
3.2784E-04	1.3075E-04	6.5590E-05	4.2200E-05	2.6783E-05

**DIRECTION FROM WSW

1.5062E-02	1.7713E-03	8.2333E-04	4.8544E-04	3.3986E-04
1.6961E-04	6.5687E-05	3.2639E-05	2.0923E-05	1.3146E-05

**DIRECTION FROM W

1.8062E-02	2.1137E-03	1.0085E-03	6.0625E-04	4.2543E-04
2.1220E-04	8.3079E-05	4.1453E-05	2.6611E-05	1.6762E-05

**DIRECTION FROM WNW

1.4070E-02	1.5849E-03	7.4737E-04	4.4563E-04	3.1275E-04
1.5632E-04	6.0911E-05	3.0310E-05	1.9415E-05	1.2237E-05

**DIRECTION FROM NW

1.7327E-02	2.0785E-03	9.9678E-04	6.0003E-04	4.2415E-04
2.1521E-04	8.5724E-05	4.3184E-05	2.7890E-05	1.7706E-05

**DIRECTION FROM NNW

2.0870E-02	2.2631E-03	1.0893E-03	6.5928E-04	4.6725E-04
2.3799E-04	9.5096E-05	4.7825E-05	3.0831E-05	1.9706E-05

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N
ADULT 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.1E-02 3.0E-02
TEEN 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.1E-02 3.0E-02
CHILD 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.1E-02 3.0E-02
INFNT 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.0E-02 1.1E-02 3.0E-02

GROUND PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N
ADULT 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 6.3E-04
TEEN 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 6.3E-04
CHILD 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 6.3E-04
INFNT 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 5.4E-04 6.3E-04

VEGET PATHWAY, DIST GP= 1, 8045. METERS, WINDS TOWARD N
ADULT 6.6E-05 6.2E-05 1.3E-05 6.8E-05 6.3E-05 6.3E-05 6.2E-05 0.0E+00
TEEN 7.4E-05 7.1E-05 2.0E-05 8.1E-05 7.3E-05 7.1E-05 7.1E-05 0.0E+00
CHILD 1.1E-04 1.1E-04 4.8E-05 1.3E-04 1.1E-04 1.1E-04 1.1E-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 9.2E-06 8.8E-06 7.0E-07 9.5E-06 9.0E-06 9.0E-06 8.8E-06 0.0E+00
TEEN 5.4E-06 5.2E-06 5.8E-07 5.8E-06 5.4E-06 5.4E-06 5.3E-06 0.0E+00
CHILD 6.4E-06 6.3E-06 1.1E-06 7.1E-06 6.5E-06 6.5E-06 6.4E-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, 3556. METERS, WINDS TOWARD N
ADULT 8.2E-05 6.5E-05 2.2E-05 9.0E-05 7.3E-05 9.2E-05 6.7E-05 0.0E+00
TEEN 1.0E-04 8.5E-05 4.1E-05 1.3E-04 9.9E-05 1.3E-04 8.9E-05 0.0E+00
CHILD 1.4E-04 1.3E-04 9.8E-05 2.1E-04 1.6E-04 2.2E-04 1.4E-04 0.0E+00
INFNT 2.1E-04 2.0E-04 1.6E-04 3.5E-04 2.4E-04 4.1E-04 2.2E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD N
ADULT 1.8E-04 1.3E-04 6.3E-05 2.1E-04 1.6E-04 1.6E-04 1.4E-04 0.0E+00
TEEN 2.2E-04 1.7E-04 1.1E-04 3.1E-04 2.2E-04 2.2E-04 1.9E-04 0.0E+00
CHILD 3.1E-04 2.7E-04 2.8E-04 5.1E-04 3.4E-04 3.7E-04 2.9E-04 0.0E+00
INFNT 4.5E-04 4.1E-04 4.5E-04 8.7E-04 5.3E-04 6.7E-04 4.6E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N
ADULT 1.3E-03 1.3E-03 1.3E-05 1.3E-03 1.3E-03 1.4E-03 1.4E-03 0.0E+00
TEEN 1.3E-03 1.3E-03 1.8E-05 1.4E-03 1.3E-03 1.4E-03 1.4E-03 0.0E+00
CHILD 1.2E-03 1.2E-03 2.4E-05 1.2E-03 1.2E-03 1.2E-03 1.2E-03 0.0E+00
INFNT 6.8E-04 6.8E-04 1.5E-05 6.9E-04 6.9E-04 7.3E-04 7.2E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 2.2E-03 2.2E-03 6.5E-04 2.3E-03 2.2E-03 2.2E-03 2.2E-03 6.3E-04
TEEN 2.3E-03 2.2E-03 7.3E-04 2.4E-03 2.3E-03 2.4E-03 2.3E-03 6.3E-04
CHILD 2.3E-03 2.2E-03 9.9E-04 2.6E-03 2.4E-03 2.5E-03 2.3E-03 6.3E-04
INFNT 1.9E-03 1.8E-03 1.2E-03 2.5E-03 2.0E-03 2.3E-03 1.9E-03 6.3E-04

TOTALS

ADULT 1.2E-02 1.2E-02 1.1E-02 1.3E-02 1.2E-02 1.2E-02 1.3E-02 3.1E-02
TEEN 1.3E-02 1.2E-02 1.1E-02 1.3E-02 1.3E-02 1.3E-02 1.3E-02 3.1E-02
CHILD 1.3E-02 1.2E-02 1.1E-02 1.3E-02 1.3E-02 1.3E-02 1.3E-02 3.1E-02
INFNT 1.2E-02 1.2E-02 1.1E-02 1.3E-02 1.2E-02 1.3E-02 1.3E-02 3.1E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 660. METERS, WINDS TOWARD NNE
ADULT 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.6E-03 1.2E-02
TEEN 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.6E-03 1.2E-02
CHILD 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.6E-03 1.2E-02
INFNT 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.5E-03 4.6E-03 1.2E-02

GROUND PATHWAY, DIST GP= 1, 660. METERS, WINDS TOWARD NNE
ADULT 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.6E-04
TEEN 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.6E-04
CHILD 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.6E-04
INFNT 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.1E-04 3.6E-04

VEGET PATHWAY, DIST GP= 1, 814. METERS, WINDS TOWARD NNE
ADULT 8.9E-04 7.9E-04 3.8E-04 9.5E-04 8.2E-04 8.2E-04 7.7E-04 0.0E+00
TEEN 9.8E-04 9.1E-04 5.9E-04 1.2E-03 9.6E-04 9.1E-04 9.0E-04 0.0E+00
CHILD 1.4E-03 1.4E-03 1.4E-03 1.8E-03 1.5E-03 1.4E-03 1.4E-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, 7725. METERS, WINDS TOWARD NNE
ADULT 4.2E-06 3.9E-06 4.4E-07 4.3E-06 4.0E-06 4.1E-06 3.9E-06 0.0E+00
TEEN 2.5E-06 2.3E-06 3.6E-07 2.7E-06 2.4E-06 2.4E-06 2.4E-06 0.0E+00
CHILD 2.9E-06 2.8E-06 6.7E-07 3.3E-06 3.0E-06 3.0E-06 2.9E-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, 3556. METERS, WINDS TOWARD NNE
ADULT 3.8E-05 2.8E-05 1.3E-05 4.3E-05 3.3E-05 4.7E-05 2.9E-05 0.0E+00
TEEN 4.6E-05 3.7E-05 2.4E-05 6.3E-05 4.5E-05 6.6E-05 3.9E-05 0.0E+00
CHILD 6.4E-05 5.7E-05 5.7E-05 1.0E-04 7.1E-05 1.2E-04 6.2E-05 0.0E+00
INFNT 9.3E-05 8.6E-05 9.5E-05 1.7E-04 1.1E-04 2.3E-04 9.5E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NNE
ADULT 8.7E-05 5.7E-05 3.7E-05 1.0E-04 7.1E-05 7.9E-05 6.1E-05 0.0E+00
TEEN 1.0E-04 7.5E-05 6.6E-05 1.5E-04 1.0E-04 1.1E-04 8.3E-05 0.0E+00
CHILD 1.4E-04 1.2E-04 1.6E-04 2.5E-04 1.6E-04 1.9E-04 1.3E-04 0.0E+00
INFNT 2.0E-04 1.8E-04 2.6E-04 4.4E-04 2.5E-04 3.5E-04 2.0E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 660. METERS, WINDS TOWARD NNE
ADULT 5.8E-04 5.8E-04 5.5E-06 5.8E-04 5.8E-04 5.9E-04 5.9E-04 0.0E+00
TEEN 5.8E-04 5.8E-04 7.7E-06 5.9E-04 5.8E-04 6.0E-04 6.0E-04 0.0E+00
CHILD 5.1E-04 5.2E-04 1.0E-05 5.2E-04 5.2E-04 5.4E-04 5.3E-04 0.0E+00
INFNT 3.0E-04 3.0E-04 6.6E-06 3.0E-04 3.0E-04 3.2E-04 3.1E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 1.9E-03 1.8E-03 7.5E-04 2.0E-03 1.8E-03 1.8E-03 1.8E-03 3.6E-04
TEEN 2.0E-03 1.9E-03 1.0E-03 2.3E-03 2.0E-03 2.0E-03 1.9E-03 3.6E-04
CHILD 2.5E-03 2.4E-03 1.9E-03 3.0E-03 2.6E-03 2.6E-03 2.4E-03 3.6E-04
INFNT 9.0E-04 8.7E-04 6.8E-04 1.2E-03 9.6E-04 1.2E-03 9.2E-04 3.6E-04

TOTALS

ADULT 6.4E-03 6.2E-03 5.2E-03 6.5E-03 6.3E-03 6.3E-03 6.4E-03 1.2E-02
TEEN 6.5E-03 6.4E-03 5.5E-03 6.8E-03 6.5E-03 6.5E-03 6.6E-03 1.2E-02
CHILD 6.9E-03 6.8E-03 6.4E-03 7.5E-03 7.0E-03 7.0E-03 7.1E-03 1.2E-02
INFNT 5.4E-03 5.3E-03 5.1E-03 5.7E-03 5.4E-03 5.7E-03 5.6E-03 1.2E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE
ADULT 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.3E-03 8.4E-03
TEEN 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.3E-03 8.4E-03
CHILD 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.3E-03 8.4E-03
INFNT 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.2E-03 3.3E-03 8.4E-03

GROUND PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE
ADULT 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.6E-04
TEEN 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.6E-04
CHILD 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.6E-04
INFNT 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.2E-04 2.6E-04

VEGET PATHWAY, DIST GP= 1, 1052. METERS, WINDS TOWARD NE
ADULT 8.2E-04 7.4E-04 3.3E-04 8.7E-04 7.6E-04 7.4E-04 7.2E-04 0.0E+00
TEEN 9.1E-04 8.5E-04 5.1E-04 1.1E-03 8.9E-04 8.4E-04 8.4E-04 0.0E+00
CHILD 1.3E-03 1.3E-03 1.2E-03 1.7E-03 1.4E-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, 7725. METERS, WINDS TOWARD NE
ADULT 5.8E-06 5.5E-06 5.8E-07 6.0E-06 5.6E-06 5.6E-06 5.5E-06 0.0E+00
TEEN 3.4E-06 3.3E-06 4.8E-07 3.7E-06 3.4E-06 3.4E-06 3.3E-06 0.0E+00
CHILD 4.0E-06 3.9E-06 8.9E-07 4.5E-06 4.1E-06 4.1E-06 4.0E-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

COW PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NE
ADULT 5.2E-05 3.9E-05 1.7E-05 5.8E-05 4.5E-05 5.8E-05 4.0E-05 0.0E+00
TEEN 6.3E-05 5.1E-05 3.1E-05 8.5E-05 6.1E-05 8.1E-05 5.4E-05 0.0E+00
CHILD 8.8E-05 7.9E-05 7.5E-05 1.4E-04 9.8E-05 1.4E-04 8.5E-05 0.0E+00
INFNT 1.3E-04 1.2E-04 1.2E-04 2.4E-04 1.5E-04 2.7E-04 1.3E-04 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NE
ADULT 1.2E-04 8.0E-05 4.8E-05 1.4E-04 9.8E-05 1.0E-04 8.4E-05 0.0E+00
TEEN 1.4E-04 1.0E-04 8.7E-05 2.1E-04 1.4E-04 1.4E-04 1.1E-04 0.0E+00
CHILD 1.9E-04 1.6E-04 2.1E-04 3.4E-04 2.2E-04 2.3E-04 1.8E-04 0.0E+00
INFNT 2.7E-04 2.4E-04 3.5E-04 5.9E-04 3.4E-04 4.2E-04 2.8E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE
ADULT 4.6E-04 4.6E-04 3.8E-06 4.6E-04 4.6E-04 4.7E-04 4.7E-04 0.0E+00
TEEN 4.7E-04 4.7E-04 5.3E-06 4.7E-04 4.6E-04 4.7E-04 4.8E-04 0.0E+00
CHILD 4.1E-04 4.1E-04 7.2E-06 4.1E-04 4.1E-04 4.2E-04 4.2E-04 0.0E+00
INFNT 2.4E-04 2.4E-04 4.6E-06 2.4E-04 2.4E-04 2.5E-04 2.5E-04 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 1.7E-03 1.5E-03 6.2E-04 1.8E-03 1.6E-03 1.6E-03 1.5E-03 2.6E-04
TEEN 1.8E-03 1.7E-03 8.6E-04 2.1E-03 1.8E-03 1.8E-03 1.7E-03 2.6E-04
CHILD 2.2E-03 2.2E-03 1.7E-03 2.8E-03 2.3E-03 2.3E-03 2.2E-03 2.6E-04
INFNT 8.6E-04 8.2E-04 7.0E-04 1.3E-03 9.5E-04 1.2E-03 8.8E-04 2.6E-04

TOTALS
ADULT 4.8E-03 4.7E-03 3.8E-03 4.9E-03 4.8E-03 4.8E-03 4.8E-03 8.7E-03
TEEN 5.0E-03 4.9E-03 4.0E-03 5.2E-03 4.9E-03 4.9E-03 5.0E-03 8.7E-03
CHILD 5.4E-03 5.3E-03 4.9E-03 6.0E-03 5.5E-03 5.5E-03 5.5E-03 8.7E-03
INFNT 4.0E-03 4.0E-03 3.9E-03 4.4E-03 4.1E-03 4.3E-03 4.2E-03 8.7E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 1747. METERS, WINDS TOWARD ENE
ADULT 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.3E-04 1.9E-03
TEEN 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.3E-04 1.9E-03
CHILD 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.3E-04 1.9E-03
INFNT 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.1E-04 7.3E-04 1.9E-03

GROUND PATHWAY, DIST GP= 1, 1747. METERS, WINDS TOWARD ENE
ADULT 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 1.0E-04
TEEN 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 1.0E-04
CHILD 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 1.0E-04
INFNT 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 8.9E-05 1.0E-04

VEGET PATHWAY, DIST GP= 1, 1852. METERS, WINDS TOWARD ENE
ADULT 1.9E-04 1.5E-04 1.3E-04 2.1E-04 1.6E-04 1.5E-04 1.5E-04 0.0E+00
TEEN 2.1E-04 1.8E-04 2.0E-04 2.7E-04 2.0E-04 1.7E-04 1.7E-04 0.0E+00
CHILD 2.9E-04 2.6E-04 4.7E-04 4.4E-04 3.1E-04 2.6E-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

MEAT PATHWAY, DIST GP= 1, 3862. METERS, WINDS TOWARD ENE
ADULT 8.3E-06 6.8E-06 2.2E-06 9.0E-06 7.4E-06 7.2E-06 6.9E-06 0.0E+00
TEEN 4.7E-06 4.1E-06 1.8E-06 5.8E-06 4.6E-06 4.3E-06 4.2E-06 0.0E+00
CHILD 5.2E-06 4.8E-06 3.3E-06 7.2E-06 5.6E-06 5.4E-06 5.1E-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

COW PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ENE
ADULT 3.3E-05 1.9E-05 1.8E-05 4.0E-05 2.5E-05 3.4E-05 2.0E-05 0.0E+00
TEEN 3.8E-05 2.4E-05 3.3E-05 6.2E-05 3.6E-05 4.9E-05 2.8E-05 0.0E+00
CHILD 4.7E-05 3.7E-05 8.0E-05 1.0E-04 5.8E-05 8.8E-05 4.4E-05 0.0E+00
INFNT 6.6E-05 5.6E-05 1.3E-04 1.9E-04 9.0E-05 1.8E-04 6.9E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ENE
ADULT 8.2E-05 3.8E-05 5.2E-05 1.0E-04 5.9E-05 5.6E-05 4.3E-05 0.0E+00
TEEN 9.1E-05 5.0E-05 9.5E-05 1.6E-04 8.7E-05 7.8E-05 6.2E-05 0.0E+00
CHILD 1.1E-04 7.6E-05 2.3E-04 2.8E-04 1.4E-04 1.4E-04 9.7E-05 0.0E+00
INFNT 1.4E-04 1.2E-04 3.7E-04 5.0E-04 2.2E-04 2.6E-04 1.5E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1747. METERS, WINDS TOWARD ENE
ADULT 8.5E-05 8.5E-05 9.2E-07 8.5E-05 8.5E-05 8.6E-05 8.6E-05 0.0E+00
TEEN 8.6E-05 8.6E-05 1.3E-06 8.6E-05 8.5E-05 8.7E-05 8.8E-05 0.0E+00
CHILD 7.6E-05 7.6E-05 1.7E-06 7.6E-05 7.6E-05 7.8E-05 7.8E-05 0.0E+00
INFNT 4.3E-05 4.3E-05 1.1E-06 4.4E-05 4.4E-05 4.6E-05 4.6E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 4.9E-04 3.9E-04 2.9E-04 5.4E-04 4.3E-04 4.3E-04 3.9E-04 1.0E-04
TEEN 5.1E-04 4.3E-04 4.2E-04 6.8E-04 5.0E-04 4.8E-04 4.5E-04 1.0E-04
CHILD 6.1E-04 5.4E-04 8.7E-04 9.9E-04 6.8E-04 6.6E-04 5.8E-04 1.0E-04
INFNT 3.4E-04 3.0E-04 6.0E-04 8.2E-04 4.4E-04 5.8E-04 3.6E-04 1.0E-04

TOTALS
ADULT 1.2E-03 1.1E-03 1.0E-03 1.2E-03 1.1E-03 1.1E-03 1.1E-03 2.0E-03
TEEN 1.2E-03 1.1E-03 1.1E-03 1.4E-03 1.2E-03 1.2E-03 1.2E-03 2.0E-03
CHILD 1.3E-03 1.2E-03 1.6E-03 1.7E-03 1.4E-03 1.4E-03 1.3E-03 2.0E-03
INFNT 1.0E-03 1.0E-03 1.3E-03 1.5E-03 1.1E-03 1.3E-03 1.1E-03 2.0E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

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

ADULT	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.6E-04	2.2E-03
TEEN	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.6E-04	2.2E-03
CHILD	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.6E-04	2.2E-03
INFNT	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.2E-04	8.6E-04	2.2E-03

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

ADULT	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	8.7E-05
TEEN	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	8.7E-05
CHILD	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	8.7E-05
INFNT	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	7.5E-05	8.7E-05

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

ADULT	2.1E-04	1.7E-04	1.1E-04	2.3E-04	1.8E-04	1.7E-04	1.7E-04	0.0E+00
TEEN	2.3E-04	2.0E-04	1.7E-04	2.9E-04	2.2E-04	1.9E-04	2.0E-04	0.0E+00
CHILD	3.2E-04	2.9E-04	4.0E-04	4.6E-04	3.4E-04	3.0E-04	3.0E-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

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

ADULT	3.6E-06	3.2E-06	5.9E-07	3.8E-06	3.4E-06	3.3E-06	3.2E-06	0.0E+00
TEEN	2.1E-06	1.9E-06	4.9E-07	2.4E-06	2.1E-06	2.0E-06	1.9E-06	0.0E+00
CHILD	2.4E-06	2.3E-06	9.1E-07	3.0E-06	2.5E-06	2.4E-06	2.3E-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, 3556. METERS, WINDS TOWARD E

ADULT	3.1E-05	1.9E-05	1.5E-05	3.7E-05	2.5E-05	3.1E-05	2.1E-05	0.0E+00
TEEN	3.6E-05	2.5E-05	2.7E-05	5.6E-05	3.5E-05	4.4E-05	2.8E-05	0.0E+00
CHILD	4.7E-05	3.9E-05	6.4E-05	9.3E-05	5.6E-05	7.7E-05	4.4E-05	0.0E+00
INFNT	6.6E-05	5.8E-05	1.1E-04	1.6E-04	8.6E-05	1.5E-04	6.9E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD E

ADULT	7.5E-05	4.0E-05	4.2E-05	9.3E-05	5.6E-05	5.3E-05	4.4E-05	0.0E+00
TEEN	8.5E-05	5.2E-05	7.6E-05	1.5E-04	8.2E-05	7.3E-05	6.2E-05	0.0E+00
CHILD	1.0E-04	7.9E-05	1.8E-04	2.4E-04	1.3E-04	1.2E-04	9.6E-05	0.0E+00
INFNT	1.4E-04	1.2E-04	3.0E-04	4.4E-04	2.0E-04	2.3E-04	1.5E-04	0.0E+00

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

ADULT	8.9E-05	8.8E-05	1.1E-06	8.9E-05	8.8E-05	9.0E-05	9.0E-05	0.0E+00
TEEN	8.9E-05	8.9E-05	1.6E-06	9.0E-05	8.9E-05	9.1E-05	9.2E-05	0.0E+00
CHILD	7.8E-05	7.8E-05	2.1E-06	7.9E-05	7.9E-05	8.1E-05	8.1E-05	0.0E+00
INFNT	4.5E-05	4.5E-05	1.3E-06	4.6E-05	4.5E-05	4.7E-05	4.8E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	4.8E-04	4.0E-04	2.4E-04	5.3E-04	4.3E-04	4.2E-04	4.0E-04	8.7E-05
TEEN	5.1E-04	4.4E-04	3.5E-04	6.6E-04	5.0E-04	4.8E-04	4.6E-04	8.7E-05
CHILD	6.2E-04	5.7E-04	7.2E-04	9.6E-04	6.8E-04	6.6E-04	6.0E-04	8.7E-05
INFNT	3.3E-04	3.0E-04	4.8E-04	7.2E-04	4.1E-04	5.1E-04	3.4E-04	8.7E-05

TOTALS

ADULT	1.3E-03	1.2E-03	1.1E-03	1.3E-03	1.3E-03	1.2E-03	1.3E-03	2.3E-03
TEEN	1.3E-03	1.3E-03	1.2E-03	1.5E-03	1.3E-03	1.3E-03	1.3E-03	2.3E-03
CHILD	1.4E-03	1.4E-03	1.5E-03	1.8E-03	1.5E-03	1.5E-03	1.5E-03	2.3E-03
INFNT	1.2E-03	1.1E-03	1.3E-03	1.5E-03	1.2E-03	1.3E-03	1.2E-03	2.3E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 1643. METERS, WINDS TOWARD ESE
ADULT 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 7.0E-04 1.9E-03
TEEN 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 7.0E-04 1.9E-03
CHILD 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 7.0E-04 1.9E-03
INFNT 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 6.7E-04 7.0E-04 1.9E-03

GROUND PATHWAY, DIST GP= 1, 1643. METERS, WINDS TOWARD ESE
ADULT 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 8.7E-05
TEEN 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 8.7E-05
CHILD 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 8.7E-05
INFNT 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 7.5E-05 8.7E-05

VEGET PATHWAY, DIST GP= 1, 1628. METERS, WINDS TOWARD ESE
ADULT 2.3E-04 1.9E-04 1.1E-04 2.5E-04 2.1E-04 2.0E-04 1.9E-04 0.0E+00
TEEN 2.5E-04 2.2E-04 1.7E-04 3.2E-04 2.5E-04 2.2E-04 2.2E-04 0.0E+00
CHILD 3.6E-04 3.3E-04 4.1E-04 5.0E-04 3.8E-04 3.5E-04 3.4E-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, 2434. METERS, WINDS TOWARD ESE
ADULT 1.7E-05 1.4E-05 3.2E-06 1.8E-05 1.5E-05 1.5E-05 1.5E-05 0.0E+00
TEEN 9.5E-06 8.6E-06 2.7E-06 1.1E-05 9.4E-06 9.2E-06 8.8E-06 0.0E+00
CHILD 1.1E-05 1.0E-05 5.0E-06 1.4E-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, 3556. METERS, WINDS TOWARD ESE
ADULT 3.1E-05 2.0E-05 1.4E-05 3.6E-05 2.5E-05 3.5E-05 2.1E-05 0.0E+00
TEEN 3.6E-05 2.6E-05 2.5E-05 5.5E-05 3.5E-05 5.1E-05 2.9E-05 0.0E+00
CHILD 4.8E-05 4.0E-05 6.0E-05 9.1E-05 5.6E-05 9.0E-05 4.6E-05 0.0E+00
INFNT 6.8E-05 6.1E-05 9.8E-05 1.6E-04 8.7E-05 1.8E-04 7.1E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ESE
ADULT 7.4E-05 4.1E-05 3.9E-05 9.0E-05 5.6E-05 5.9E-05 4.5E-05 0.0E+00
TEEN 8.4E-05 5.4E-05 7.0E-05 1.4E-04 8.1E-05 8.2E-05 6.3E-05 0.0E+00
CHILD 1.1E-04 8.2E-05 1.7E-04 2.3E-04 1.3E-04 1.4E-04 9.8E-05 0.0E+00
INFNT 1.5E-04 1.2E-04 2.8E-04 4.2E-04 2.0E-04 2.7E-04 1.6E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1643. METERS, WINDS TOWARD ESE
ADULT 1.0E-04 1.0E-04 7.3E-07 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00
TEEN 1.0E-04 1.0E-04 1.0E-06 1.0E-04 1.0E-04 1.0E-04 1.0E-04 0.0E+00
CHILD 8.9E-05 8.9E-05 1.4E-06 9.0E-05 8.9E-05 9.3E-05 9.2E-05 0.0E+00
INFNT 5.1E-05 5.1E-05 8.9E-07 5.2E-05 5.1E-05 5.4E-05 5.3E-05 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 5.3E-04 4.5E-04 2.4E-04 5.7E-04 4.8E-04 4.9E-04 4.5E-04 8.7E-05
TEEN 5.6E-04 4.9E-04 3.5E-04 7.0E-04 5.5E-04 5.4E-04 5.0E-04 8.7E-05
CHILD 6.9E-04 6.3E-04 7.2E-04 1.0E-03 7.4E-04 7.5E-04 6.7E-04 8.7E-05
INFNT 3.4E-04 3.1E-04 4.5E-04 7.0E-04 4.1E-04 5.8E-04 3.5E-04 8.7E-05

TOTALS

ADULT 1.2E-03 1.1E-03 9.2E-04 1.2E-03 1.2E-03 1.2E-03 1.2E-03 2.0E-03
TEEN 1.2E-03 1.2E-03 1.0E-03 1.4E-03 1.2E-03 1.2E-03 1.2E-03 2.0E-03
CHILD 1.4E-03 1.3E-03 1.4E-03 1.7E-03 1.4E-03 1.4E-03 1.4E-03 2.0E-03
INFNT 1.0E-03 9.9E-04 1.1E-03 1.4E-03 1.1E-03 1.3E-03 1.1E-03 2.0E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 1136. METERS, WINDS TOWARD SE
ADULT 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.6E-03 4.1E-03
TEEN 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.6E-03 4.1E-03
CHILD 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.6E-03 4.1E-03
INFNT 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.5E-03 1.6E-03 4.1E-03

GROUND PATHWAY, DIST GP= 1, 1136. METERS, WINDS TOWARD SE
ADULT 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-04
TEEN 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-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
INFNT 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.5E-04

VEGET PATHWAY, DIST GP= 1, 914. METERS, WINDS TOWARD SE
ADULT 4.8E-04 3.9E-04 2.7E-04 5.3E-04 4.2E-04 4.0E-04 3.8E-04 0.0E+00
TEEN 5.2E-04 4.5E-04 4.1E-04 6.8E-04 5.0E-04 4.5E-04 4.5E-04 0.0E+00
CHILD 7.3E-04 6.6E-04 9.7E-04 1.1E-03 7.8E-04 6.9E-04 6.9E-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

MEAT PATHWAY, DIST GP= 1, 4354. METERS, WINDS TOWARD SE
ADULT 5.9E-06 5.1E-06 1.2E-06 6.3E-06 5.4E-06 5.3E-06 5.1E-06 0.0E+00
TEEN 3.4E-06 3.0E-06 9.8E-07 4.0E-06 3.3E-06 3.2E-06 3.1E-06 0.0E+00
CHILD 3.8E-06 3.6E-06 1.8E-06 5.0E-06 4.0E-06 4.0E-06 3.7E-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, 3556. METERS, WINDS TOWARD SE
ADULT 2.7E-05 1.6E-05 1.3E-05 3.2E-05 2.1E-05 3.0E-05 1.7E-05 0.0E+00
TEEN 3.1E-05 2.1E-05 2.3E-05 4.8E-05 3.0E-05 4.2E-05 2.4E-05 0.0E+00
CHILD 4.0E-05 3.3E-05 5.6E-05 8.0E-05 4.8E-05 7.6E-05 3.8E-05 0.0E+00
INFNT 5.6E-05 4.9E-05 9.1E-05 1.4E-04 7.4E-05 1.6E-04 5.9E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SE
ADULT 6.5E-05 3.3E-05 3.6E-05 8.0E-05 4.8E-05 4.9E-05 3.7E-05 0.0E+00
TEEN 7.3E-05 4.3E-05 6.6E-05 1.3E-04 7.0E-05 6.8E-05 5.2E-05 0.0E+00
CHILD 8.8E-05 6.7E-05 1.6E-04 2.1E-04 1.1E-04 1.2E-04 8.2E-05 0.0E+00
INFNT 1.2E-04 1.0E-04 2.6E-04 3.8E-04 1.7E-04 2.3E-04 1.3E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1136. METERS, WINDS TOWARD SE
ADULT 1.4E-04 1.4E-04 2.1E-06 1.4E-04 1.4E-04 1.5E-04 1.5E-04 0.0E+00
TEEN 1.4E-04 1.4E-04 3.0E-06 1.5E-04 1.4E-04 1.5E-04 1.5E-04 0.0E+00
CHILD 1.3E-04 1.3E-04 4.1E-06 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00
INFNT 7.3E-05 7.3E-05 2.6E-06 7.5E-05 7.3E-05 7.9E-05 7.8E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 8.6E-04 7.2E-04 4.5E-04 9.3E-04 7.7E-04 7.6E-04 7.2E-04 1.5E-04
TEEN 9.0E-04 7.9E-04 6.3E-04 1.1E-03 8.8E-04 8.4E-04 8.1E-04 1.5E-04
CHILD 1.1E-03 1.0E-03 1.3E-03 1.6E-03 1.2E-03 1.2E-03 1.1E-03 1.5E-04
INFNT 3.8E-04 3.5E-04 4.8E-04 7.3E-04 4.5E-04 5.9E-04 4.0E-04 1.5E-04

TOTALS
ADULT 2.4E-03 2.2E-03 2.0E-03 2.5E-03 2.3E-03 2.3E-03 2.3E-03 4.2E-03
TEEN 2.4E-03 2.3E-03 2.2E-03 2.7E-03 2.4E-03 2.4E-03 2.4E-03 4.2E-03
CHILD 2.6E-03 2.6E-03 2.9E-03 3.2E-03 2.7E-03 2.7E-03 2.7E-03 4.2E-03
INFNT 1.9E-03 1.9E-03 2.0E-03 2.3E-03 2.0E-03 2.1E-03 2.0E-03 4.2E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 1507. METERS, WINDS TOWARD SSE
ADULT 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.2E-03 3.0E-03
TEEN 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.2E-03 3.0E-03
CHILD 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.2E-03 3.0E-03
INFNT 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.1E-03 1.2E-03 3.0E-03

GROUND PATHWAY, DIST GP= 1, 1507. METERS, WINDS TOWARD SSE
ADULT 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.6E-04
TEEN 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.6E-04
CHILD 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.6E-04
INFNT 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.3E-04 1.6E-04

VEGET PATHWAY, DIST GP= 1, 1093. METERS, WINDS TOWARD SSE
ADULT 5.8E-04 4.6E-04 3.4E-04 6.4E-04 5.0E-04 4.9E-04 4.5E-04 0.0E+00
TEEN 6.2E-04 5.3E-04 5.2E-04 8.1E-04 6.0E-04 5.4E-04 5.3E-04 0.0E+00
CHILD 8.6E-04 7.9E-04 1.2E-03 1.3E-03 9.3E-04 8.3E-04 8.2E-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, 1093. METERS, WINDS TOWARD SSE
ADULT 7.6E-05 6.3E-05 1.9E-05 8.3E-05 6.9E-05 6.8E-05 6.4E-05 0.0E+00
TEEN 4.3E-05 3.8E-05 1.6E-05 5.4E-05 4.2E-05 4.2E-05 3.9E-05 0.0E+00
CHILD 4.8E-05 4.5E-05 2.9E-05 6.6E-05 5.2E-05 5.2E-05 4.7E-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, 3556. METERS, WINDS TOWARD SSE
ADULT 4.2E-05 2.5E-05 2.1E-05 5.0E-05 3.3E-05 5.2E-05 2.7E-05 0.0E+00
TEEN 4.8E-05 3.3E-05 3.8E-05 7.7E-05 4.7E-05 7.5E-05 3.7E-05 0.0E+00
CHILD 6.2E-05 5.0E-05 9.2E-05 1.3E-04 7.5E-05 1.4E-04 5.8E-05 0.0E+00
INFNT 8.7E-05 7.6E-05 1.5E-04 2.3E-04 1.2E-04 2.9E-04 9.1E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSE
ADULT 1.0E-04 5.2E-05 6.0E-05 1.3E-04 7.5E-05 8.2E-05 5.8E-05 0.0E+00
TEEN 1.1E-04 6.7E-05 1.1E-04 2.0E-04 1.1E-04 1.2E-04 8.2E-05 0.0E+00
CHILD 1.4E-04 1.0E-04 2.6E-04 3.4E-04 1.8E-04 2.0E-04 1.3E-04 0.0E+00
INFNT 1.9E-04 1.6E-04 4.3E-04 6.1E-04 2.7E-04 4.1E-04 2.0E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1507. METERS, WINDS TOWARD SSE
ADULT 1.4E-04 1.4E-04 1.3E-06 1.4E-04 1.4E-04 1.5E-04 1.4E-04 0.0E+00
TEEN 1.4E-04 1.4E-04 1.9E-06 1.4E-04 1.4E-04 1.5E-04 1.5E-04 0.0E+00
CHILD 1.3E-04 1.3E-04 2.5E-06 1.3E-04 1.3E-04 1.3E-04 1.3E-04 0.0E+00
INFNT 7.3E-05 7.3E-05 1.6E-06 7.4E-05 7.3E-05 7.8E-05 7.7E-05 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 1.1E-03 8.8E-04 5.7E-04 1.2E-03 9.5E-04 9.7E-04 8.8E-04 1.6E-04
TEEN 1.1E-03 9.5E-04 8.2E-04 1.4E-03 1.1E-03 1.1E-03 9.7E-04 1.6E-04
CHILD 1.4E-03 1.2E-03 1.8E-03 2.1E-03 1.5E-03 1.5E-03 1.3E-03 1.6E-04
INFNT 4.8E-04 4.4E-04 7.1E-04 1.0E-03 6.0E-04 9.0E-04 5.0E-04 1.6E-04

TOTALS
ADULT 2.2E-03 2.0E-03 1.7E-03 2.3E-03 2.1E-03 2.1E-03 2.1E-03 3.2E-03
TEEN 2.2E-03 2.1E-03 2.0E-03 2.6E-03 2.2E-03 2.2E-03 2.2E-03 3.2E-03
CHILD 2.5E-03 2.4E-03 2.9E-03 3.2E-03 2.6E-03 2.6E-03 2.5E-03 3.2E-03
INFNT 1.6E-03 1.6E-03 1.8E-03 2.2E-03 1.7E-03 2.0E-03 1.7E-03 3.2E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S
ADULT 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.2E-03 5.5E-03
IN 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.2E-03 5.5E-03
CHILD 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.2E-03 5.5E-03
INFNT 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.1E-03 2.2E-03 5.5E-03

GROUND PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S
ADULT 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 4.1E-04
TEEN 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 4.1E-04
CHILD 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 4.1E-04
INFNT 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 3.5E-04 4.1E-04

VEGET PATHWAY, DIST GP= 1, 863. METERS, WINDS TOWARD S
ADULT 8.0E-04 5.7E-04 6.8E-04 9.2E-04 6.4E-04 6.1E-04 5.4E-04 0.0E+00
TEEN 8.2E-04 6.5E-04 1.0E-03 1.2E-03 7.9E-04 6.6E-04 6.5E-04 0.0E+00
CHILD 1.1E-03 9.4E-04 2.5E-03 2.0E-03 1.2E-03 1.0E-03 1.0E-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 4.5E-06 3.6E-06 1.4E-06 5.0E-06 4.0E-06 4.0E-06 3.6E-06 0.0E+00
TEEN 2.5E-06 2.1E-06 1.2E-06 3.3E-06 2.5E-06 2.4E-06 2.2E-06 0.0E+00
CHILD 2.8E-06 2.5E-06 2.2E-06 4.2E-06 3.0E-06 3.0E-06 2.7E-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, 3556. METERS, WINDS TOWARD S
ADULT 4.3E-05 2.0E-05 2.9E-05 5.5E-05 3.1E-05 5.6E-05 2.3E-05 0.0E+00
IN 4.8E-05 2.6E-05 5.2E-05 8.8E-05 4.6E-05 8.3E-05 3.3E-05 0.0E+00
CHILD 5.7E-05 4.0E-05 1.3E-04 1.5E-04 7.4E-05 1.6E-04 5.1E-05 0.0E+00
INFNT 7.6E-05 6.0E-05 2.1E-04 2.7E-04 1.2E-04 3.4E-04 8.1E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD S
ADULT 1.1E-04 4.2E-05 8.2E-05 1.5E-04 7.5E-05 8.3E-05 5.0E-05 0.0E+00
TEEN 1.2E-04 5.5E-05 1.5E-04 2.4E-04 1.1E-04 1.2E-04 7.5E-05 0.0E+00
CHILD 1.3E-04 8.2E-05 3.6E-04 4.0E-04 1.8E-04 2.2E-04 1.2E-04 0.0E+00
INFNT 1.7E-04 1.2E-04 5.9E-04 7.5E-04 2.9E-04 4.6E-04 1.9E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S
ADULT 2.1E-04 2.1E-04 2.7E-06 2.1E-04 2.1E-04 2.2E-04 2.1E-04 0.0E+00
TEEN 2.1E-04 2.1E-04 3.8E-06 2.1E-04 2.1E-04 2.2E-04 2.2E-04 0.0E+00
CHILD 1.9E-04 1.9E-04 5.2E-06 1.9E-04 1.9E-04 2.0E-04 1.9E-04 0.0E+00
INFNT 1.1E-04 1.1E-04 3.3E-06 1.1E-04 1.1E-04 1.2E-04 1.1E-04 0.0E+00

SUBTOTALS (NO PLUME)

ADULT 1.5E-03 1.2E-03 1.1E-03 1.7E-03 1.3E-03 1.3E-03 1.2E-03 4.1E-04
TEEN 1.6E-03 1.3E-03 1.6E-03 2.1E-03 1.5E-03 1.4E-03 1.3E-03 4.1E-04
CHILD 1.8E-03 1.6E-03 3.3E-03 3.1E-03 2.0E-03 1.9E-03 1.7E-03 4.1E-04
INFNT 7.0E-04 6.4E-04 1.1E-03 1.5E-03 8.6E-04 1.3E-03 7.3E-04 4.1E-04

TOTALS

ADULT 3.6E-03 3.3E-03 3.2E-03 3.8E-03 3.4E-03 3.4E-03 3.3E-03 5.9E-03
TEEN 3.6E-03 3.4E-03 3.7E-03 4.2E-03 3.6E-03 3.5E-03 3.5E-03 5.9E-03
CHILD 3.9E-03 3.7E-03 5.4E-03 5.1E-03 4.1E-03 4.0E-03 3.9E-03 5.9E-03
INFNT 2.8E-03 2.7E-03 3.2E-03 3.5E-03 2.9E-03 3.3E-03 2.9E-03 5.9E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 4 1 1 THRU 93 63024

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

PLUME PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW
ADULT 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.7E-03 4.3E-03
TEEN 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.7E-03 4.3E-03
CHILD 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.7E-03 4.3E-03
INFNT 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.6E-03 1.7E-03 4.3E-03

GROUND PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW
ADULT 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.4E-04
TEEN 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.4E-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
INFNT 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.2E-04 1.4E-04

VEGET PATHWAY, DIST GP= 1, 770. METERS, WINDS TOWARD SSW
ADULT 7.4E-04 6.6E-04 2.6E-04 7.8E-04 6.8E-04 6.8E-04 6.5E-04 0.0E+00
TEEN 8.1E-04 7.5E-04 4.0E-04 9.6E-04 8.0E-04 7.7E-04 7.5E-04 0.0E+00
CHILD 1.2E-03 1.1E-03 9.6E-04 1.5E-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 SSW
ADULT 3.2E-06 3.0E-06 2.7E-07 3.2E-06 3.1E-06 3.1E-06 3.0E-06 0.0E+00
TEEN 1.9E-06 1.8E-06 2.2E-07 2.0E-06 1.8E-06 1.9E-06 1.8E-06 0.0E+00
CHILD 2.2E-06 2.1E-06 4.1E-07 2.4E-06 2.2E-06 2.3E-06 2.2E-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, 3556. METERS, WINDS TOWARD SSW
ADULT 2.9E-05 2.2E-05 8.8E-06 3.2E-05 2.5E-05 3.6E-05 2.3E-05 0.0E+00
TEEN 3.5E-05 2.8E-05 1.6E-05 4.7E-05 3.4E-05 5.1E-05 3.0E-05 0.0E+00
CHILD 4.9E-05 4.4E-05 3.8E-05 7.6E-05 5.5E-05 9.0E-05 4.8E-05 0.0E+00
INFNT 7.2E-05 6.7E-05 6.3E-05 1.3E-04 8.4E-05 1.8E-04 7.3E-05 0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSW
ADULT 6.5E-05 4.5E-05 2.5E-05 7.5E-05 5.4E-05 6.1E-05 4.7E-05 0.0E+00
TEEN 7.8E-05 5.8E-05 4.5E-05 1.1E-04 7.6E-05 8.5E-05 6.4E-05 0.0E+00
CHILD 1.0E-04 9.1E-05 1.1E-04 1.9E-04 1.2E-04 1.4E-04 1.0E-04 0.0E+00
INFNT 1.5E-04 1.4E-04 1.8E-04 3.2E-04 1.9E-04 2.7E-04 1.6E-04 0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW
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 2.6E-04 2.6E-04 2.4E-06 2.6E-04 2.6E-04 2.6E-04 2.6E-04 0.0E+00
CHILD 2.3E-04 2.3E-04 3.2E-06 2.3E-04 2.3E-04 2.4E-04 2.3E-04 0.0E+00
INFNT 1.3E-04 1.3E-04 2.1E-06 1.3E-04 1.3E-04 1.4E-04 1.4E-04 0.0E+00

SUBTOTALS (NO PLUME)
ADULT 1.2E-03 1.1E-03 4.2E-04 1.3E-03 1.1E-03 1.2E-03 1.1E-03 1.4E-04
TEEN 1.3E-03 1.2E-03 5.9E-04 1.5E-03 1.3E-03 1.3E-03 1.2E-03 1.4E-04
CHILD 1.7E-03 1.6E-03 1.2E-03 2.1E-03 1.8E-03 1.8E-03 1.7E-03 1.4E-04
INFNT 4.7E-04 4.6E-04 3.6E-04 7.0E-04 5.2E-04 7.1E-04 4.9E-04 1.4E-04

TOTALS
ADULT 2.8E-03 2.7E-03 2.0E-03 2.9E-03 2.7E-03 2.8E-03 2.8E-03 4.4E-03
TEEN 2.9E-03 2.8E-03 2.2E-03 3.1E-03 2.9E-03 2.9E-03 2.9E-03 4.4E-03
CHILD 3.3E-03 3.2E-03 2.8E-03 3.7E-03 3.4E-03 3.4E-03 3.3E-03 4.4E-03
INFNT 2.1E-03 2.0E-03 2.0E-03 2.3E-03 2.1E-03 2.3E-03 2.1E-03 4.4E-03

APPENDIX 1.4

Summary of Maximum Individual Doses
Third Quarter, 1993



SUMMARY OF MAXIMUM INDIVIDUAL DOSES

3rd Quarter 1993

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mRem)	AGE GROUP	LOCATION DIST DIR (M) (Toward)	% OF APPLICABLE LIMIT	LIMIT (mRem) QTR
Liquid	Total Body	9.00E-2	Adult	Receptor 1	6.00E+0	1.5E+0
Liquid	Liver	1.29E-1	Teen	Receptor 1	2.58E+0	5.0E+0
Noble Gas	Air Dose (Gamma-mrad)	8.63E-2		651 N	1.73E+0	5.0E+0
Noble Gas	Air dose (Beta-mrad)	1.51E+0		651 N	1.51E+1	1.0E+1
Iodines and Particulates	Thyroid	1.11E-2	Child	659 N	1.48E-1	7.5E+0

FOR RECEPTOR NUMBER 1

LAST LIQUID DOSE ACCUMULATIONS(MREM)
START DATE 93 7 1 1 END DATE 93 93024.

	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN
WATER								
ADULT	5.3E-04	3.0E-03	2.7E-03	2.3E-03	2.4E-03	2.2E-03	2.6E-03	0.0E+00
TEEN	5.1E-04	2.3E-03	1.8E-03	1.6E-03	1.8E-03	1.6E-03	1.8E-03	0.0E+00
CHILD	1.5E-03	4.5E-03	3.2E-03	3.2E-03	3.4E-03	3.1E-03	3.1E-03	0.0E+00
INFANT	1.5E-03	4.8E-03	3.1E-03	3.4E-03	3.3E-03	3.1E-03	3.0E-03	0.0E+00

SHORE

ADULT	1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.3E-04	1.6E-04
TEEN	7.4E-04	7.4E-04	7.4E-04	7.4E-04	7.4E-04	7.4E-04	7.4E-04	8.7E-04
CHILD	1.6E-04	1.6E-04	1.6E-04	1.6E-04	1.6E-04	1.6E-04	1.6E-04	1.8E-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	7.5E-02	1.2E-01	8.7E-02	3.0E-04	4.1E-02	1.4E-02	5.9E-03	0.0E+00
TEEN	7.9E-02	1.3E-01	4.9E-02	2.6E-04	4.2E-02	1.6E-02	4.3E-03	0.0E+00
CHILD	9.9E-02	1.1E-01	1.9E-02	2.5E-04	3.6E-02	1.3E-02	1.6E-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

TOTAL

ADULT	7.6E-02	1.3E-01	9.0E-02	2.7E-03	4.3E-02	1.6E-02	8.7E-03	1.6E-04
TEEN	8.1E-02	1.3E-01	5.2E-02	2.6E-03	4.4E-02	1.9E-02	6.8E-03	8.7E-04
CHILD	1.0E-01	1.2E-01	2.3E-02	3.6E-03	3.9E-02	1.6E-02	4.9E-03	1.8E-04
INFANT	1.5E-03	4.8E-03	3.1E-03	3.4E-03	3.3E-03	3.1E-03	3.0E-03	0.0E+00

FOR RELEASE POINT 2

**DIRECTION FROM N

4.4806E-01	5.4927E-02	2.5257E-02	1.4757E-02	1.0261E-02
5.0483E-03	1.9170E-03	9.4295E-04	6.0026E-04	3.7168E-04

**DIRECTION FROM NNE

2.9147E-01	3.8201E-02	1.8050E-02	1.0725E-02	7.5230E-03
3.7623E-03	1.4674E-03	7.3028E-04	4.6805E-04	2.9254E-04

**DIRECTION FROM NE

2.6030E-01	3.1332E-02	1.5557E-02	9.5760E-03	6.8017E-03
3.4642E-03	1.3966E-03	7.0244E-04	4.5226E-04	2.8776E-04

**DIRECTION FROM ENE

4.6047E-01	5.3115E-02	2.6135E-02	1.6029E-02	1.1309E-02
5.6747E-03	2.2511E-03	1.1230E-03	7.1917E-04	4.5475E-04

**DIRECTION FROM E

1.2304E+00	1.3201E-01	6.7718E-02	4.2559E-02	3.0645E-02
1.5980E-02	6.5893E-03	3.3102E-03	2.1235E-03	1.3702E-03

**DIRECTION FROM ESE

9.2705E-01	1.0541E-01	5.3514E-02	3.3388E-02	2.3963E-02
1.2440E-02	5.1088E-03	2.5731E-03	1.6556E-03	1.0650E-03

**DIRECTION FROM SE

1.1140E+00	1.2364E-01	6.3236E-02	3.9632E-02	2.8532E-02
1.4891E-02	6.1448E-03	3.0937E-03	1.9888E-03	1.2830E-03

**DIRECTION FROM SSE

1.3310E+00	1.4509E-01	7.5156E-02	4.7501E-02	3.4281E-02
1.7949E-02	7.4572E-03	3.7663E-03	2.4256E-03	1.5697E-03

**DIRECTION FROM S

1.7466E+00	1.9117E-01	9.7198E-02	6.0734E-02	4.3662E-02
2.2730E-02	9.3436E-03	4.6947E-03	3.0140E-03	1.9420E-03

**DIRECTION FROM SSW

5.1734E-01	6.1774E-02	2.9893E-02	1.8100E-02	1.2774E-02
6.4399E-03	2.5491E-03	1.2716E-03	8.1483E-04	5.1460E-04

**DIRECTION FROM SW

3.4548E-01	4.4906E-02	2.1070E-02	1.2452E-02	8.7535E-03
4.4075E-03	1.7243E-03	8.5945E-04	5.5158E-04	3.4593E-04

**DIRECTION FROM WSW

2.2388E-01	2.4138E-02	1.1737E-02	7.1379E-03	5.0647E-03
2.5776E-03	1.0241E-03	5.0686E-04	3.2233E-04	2.0472E-04

**DIRECTION FROM W

1.2960E-01	1.5221E-02	7.1318E-03	4.2376E-03	2.9428E-03
1.4368E-03	5.4870E-04	2.7204E-04	1.7422E-04	1.0854E-04

**DIRECTION FROM WNW

2.0086E-01	2.2077E-02	9.8130E-03	5.6250E-03	3.8532E-03
1.8374E-03	6.6637E-04	3.2150E-04	2.0217E-04	1.2281E-04

**DIRECTION FROM NW

1.8121E-01	2.1896E-02	9.7835E-03	5.5951E-03	3.8519E-03
1.8597E-03	6.7974E-04	3.2592E-04	2.0366E-04	1.2308E-04

**DIRECTION FROM NNW

1.8993E-01	2.4154E-02	1.1077E-02	6.4426E-03	4.4999E-03
2.2419E-03	8.5906E-04	4.2382E-04	2.7038E-04	1.6817E-04

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 93 7 1 1 0 TO 93 93024
DOSE ACCUMULATION FOR BETA MRAD
FOR RELEASE POINT 1

**DIRECTION FROM N

3.0573E-04	3.5374E-05	1.5548E-05	8.8066E-06	5.9354E-06
2.7146E-06	9.1952E-07	4.1872E-07	2.5129E-07	1.4267E-07

**DIRECTION FROM NNE

6.5681E-04	9.1986E-05	4.1863E-05	2.4053E-05	1.6928E-05
8.6166E-06	3.3384E-06	1.6461E-06	1.0496E-06	6.5475E-07

**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

1.2739E-03	1.7840E-04	8.1191E-05	4.6648E-05	3.2831E-05
1.6711E-05	6.4746E-06	3.1926E-06	2.0356E-06	1.2698E-06

**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

1.0426E-02	1.0196E-03	5.5064E-04	3.5667E-04	2.6079E-04
1.3940E-04	5.9121E-05	2.9847E-05	1.9167E-05	1.2546E-05

**DIRECTION FROM S

1.6490E-04	8.0282E-06	4.8249E-06	3.4451E-06	2.6700E-06
1.6074E-06	8.0365E-07	4.8219E-07	3.4442E-07	2.4095E-07

**DIRECTION FROM SSW

9.7060E-03	1.2338E-03	6.2602E-04	3.9186E-04	2.7674E-04
1.3867E-04	5.6129E-05	2.8652E-05	1.8657E-05	1.1847E-05

**DIRECTION FROM SW

9.5361E-04	1.0885E-04	4.8016E-05	2.7293E-05	1.8443E-05
8.4863E-06	2.9096E-06	1.3406E-06	8.1196E-07	4.6711E-07

**DIRECTION FROM WSW

2.9840E-04	3.4526E-05	1.5175E-05	8.5955E-06	5.7932E-06
2.6495E-06	8.9748E-07	4.0868E-07	2.4527E-07	1.3925E-07

**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

2.7045E-04	2.1430E-05	8.7885E-06	4.8770E-06	3.2152E-06
1.4233E-06	4.7916E-07	2.3876E-07	1.6049E-07	1.0531E-07

**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

FOR RELEASE POINT 2

**DIRECTION FROM N

2.5986E-02	3.2201E-03	1.4764E-03	8.5982E-04	5.9876E-04
2.9594E-04	1.1253E-04	5.5270E-05	3.5136E-05	2.1755E-05

**DIRECTION FROM NNE

1.7738E-02	2.3321E-03	1.0933E-03	6.4553E-04	4.5263E-04
2.2652E-04	8.7986E-05	4.3634E-05	2.7902E-05	1.7409E-05

**DIRECTION FROM NE

1.6447E-02	2.0771E-03	1.0019E-03	6.0395E-04	4.2682E-04
2.1621E-04	8.5843E-05	4.2924E-05	2.7565E-05	1.7406E-05

**DIRECTION FROM ENE

2.6550E-02	3.2236E-03	1.5369E-03	9.2061E-04	6.4703E-04
3.2398E-04	1.2662E-04	6.2746E-05	4.0049E-05	2.5125E-05

**DIRECTION FROM E

6.0927E-02	6.8248E-03	3.4184E-03	2.1141E-03	1.5151E-03
7.8534E-04	3.1996E-04	1.6008E-04	1.0250E-04	6.5743E-05

**DIRECTION FROM ESE

5.2293E-02	6.0973E-03	3.0328E-03	1.8659E-03	1.3343E-03
6.8963E-04	2.8017E-04	1.4042E-04	9.0100E-05	5.7662E-05

**DIRECTION FROM SE

6.8515E-02	7.7144E-03	3.8711E-03	2.3964E-03	1.7179E-03
8.9097E-04	3.6343E-04	1.8196E-04	1.1659E-04	7.4816E-05

**DIRECTION FROM SSE

7.3692E-02	8.1759E-03	4.1624E-03	2.6020E-03	1.8702E-03
9.7309E-04	4.0009E-04	2.0115E-04	1.2920E-04	8.3204E-05

**DIRECTION FROM S

9.9439E-02	1.1278E-02	5.6237E-03	3.4686E-03	2.4809E-03
1.2816E-03	5.2061E-04	2.6059E-04	1.6700E-04	1.0695E-04

**DIRECTION FROM SSW

3.7094E-02	4.5388E-03	2.1777E-03	1.3091E-03	9.2391E-04
4.6675E-04	1.8432E-04	9.1791E-05	5.8775E-05	3.7068E-05

**DIRECTION FROM SW

2.7248E-02	3.4500E-03	1.6148E-03	9.5264E-04	6.6986E-04
3.3745E-04	1.3159E-04	6.5233E-05	4.1686E-05	2.6125E-05

**DIRECTION FROM WSW

1.5563E-02	1.7601E-03	8.2300E-04	4.8709E-04	3.4103E-04
1.6962E-04	6.5108E-05	3.1816E-05	2.0099E-05	1.2536E-05

**DIRECTION FROM W

1.1216E-02	1.3058E-03	6.0277E-04	3.5393E-04	2.4588E-04
1.2048E-04	4.5627E-05	2.2381E-05	1.4209E-05	8.8015E-06

**DIRECTION FROM WNW

1.2419E-02	1.4013E-03	6.2386E-04	3.5743E-04	2.4527E-04
1.1745E-04	4.2716E-05	2.0572E-05	1.2909E-05	7.8265E-06

**DIRECTION FROM NW

1.0565E-02	1.2616E-03	5.6641E-04	3.2539E-04	2.2415E-04
1.0824E-04	3.9738E-05	1.9139E-05	1.1998E-05	7.2762E-06

**DIRECTION FROM NNW

1.3854E-02	1.7724E-03	8.0839E-04	4.6791E-04	3.2622E-04
1.6196E-04	6.1563E-05	3.0174E-05	1.9154E-05	1.1844E-05

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 93 7 1 1 0 TO 93 93024 0
DOSE ACCUMULATION FOR GAMMA MRAD
FOR RELEASE POINT 1

**DIRECTION FROM N				
3.0631E-06	3.5440E-07	1.5577E-07	8.8232E-08	5.9466E-08
2.7197E-08	9.2125E-09	4.1951E-09	2.5177E-09	1.4294E-09
**DIRECTION FROM NNE				
6.5805E-06	9.2160E-07	4.1942E-07	2.4098E-07	1.6960E-07
8.6328E-08	3.3447E-08	1.6492E-08	1.0516E-08	6.5598E-09
**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				
1.1378E-05	1.5934E-06	7.2517E-07	4.1665E-07	2.9323E-07
1.4926E-07	5.7828E-08	2.8515E-08	1.8181E-08	1.1342E-08
**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				
1.1180E-04	1.0929E-05	5.9050E-06	3.8257E-06	2.7976E-06
1.4957E-06	6.3449E-07	3.2035E-07	2.0574E-07	1.3468E-07
**DIRECTION FROM S				
1.6774E-06	8.1668E-08	4.9082E-08	3.5046E-08	2.7253E-08
1.6351E-08	8.1753E-09	4.9052E-09	3.5037E-09	2.4511E-09
**DIRECTION FROM SSW				
8.7516E-05	1.1114E-05	5.6328E-06	3.5236E-06	2.4876E-06
1.2459E-06	5.0385E-07	2.5708E-07	1.6735E-07	1.0623E-07
**DIRECTION FROM SW				
4.8582E-05	5.5452E-06	2.4462E-06	1.3904E-06	9.3958E-07
4.3234E-07	1.4823E-07	6.8296E-08	4.1365E-08	2.3797E-08
**DIRECTION FROM WSW				
2.7057E-06	3.1306E-07	1.3760E-07	7.7938E-08	5.2529E-08
2.4024E-08	8.1378E-09	3.7057E-09	2.2239E-09	1.2627E-09
**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				
1.5643E-05	1.2395E-06	5.0831E-07	2.8208E-07	1.8596E-07
8.2321E-08	2.7714E-08	1.3810E-08	9.2828E-09	6.0911E-09
**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

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

PLUME PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW

ADULT	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	5.5E-03	9.7E-02
TEEN	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	5.5E-03	9.7E-02
CHILD	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	5.5E-03	9.7E-02
INFNT	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	4.1E-03	5.5E-03	9.7E-02

GROUND PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW

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	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-04
CHILD	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-04
INFNT	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-04

VEGET PATHWAY, DIST GP= 1, 770. METERS, WINDS TOWARD SSW

ADULT	1.1E-03	1.0E-03	6.8E-05	1.1E-03	1.1E-03	1.2E-03	1.0E-03	0.0E+00
TEEN	1.2E-03	1.2E-03	1.1E-04	1.3E-03	1.2E-03	1.3E-03	1.2E-03	0.0E+00
CHILD	1.9E-03	1.8E-03	2.5E-04	2.1E-03	1.9E-03	2.0E-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 SSW

ADULT	5.0E-06	4.9E-06	1.3E-07	5.0E-06	4.9E-06	5.1E-06	4.9E-06	0.0E+00
TEEN	3.0E-06	2.9E-06	1.1E-07	3.1E-06	2.9E-06	3.1E-06	2.9E-06	0.0E+00
CHILD	3.5E-06	3.5E-06	1.9E-07	3.7E-06	3.6E-06	3.8E-06	3.5E-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, 3556. METERS, WINDS TOWARD SSW

ADULT	4.2E-05	3.8E-05	4.8E-06	4.5E-05	4.0E-05	7.2E-05	3.8E-05	0.0E+00
TEEN	5.3E-05	4.9E-05	8.6E-06	6.1E-05	5.3E-05	1.0E-04	5.0E-05	0.0E+00
CHILD	8.1E-05	7.7E-05	2.1E-05	9.8E-05	8.4E-05	1.8E-04	8.0E-05	0.0E+00
INFNT	1.2E-04	1.2E-04	3.3E-05	1.6E-04	1.3E-04	3.7E-04	1.2E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSW

ADULT	9.1E-05	7.7E-05	1.4E-05	9.7E-05	8.4E-05	1.2E-04	7.9E-05	0.0E+00
TEEN	1.1E-04	1.0E-04	2.5E-05	1.4E-04	1.1E-04	1.6E-04	1.0E-04	0.0E+00
CHILD	1.7E-04	1.6E-04	6.1E-05	2.2E-04	1.8E-04	2.8E-04	1.6E-04	0.0E+00
INFNT	2.5E-04	2.4E-04	9.8E-05	3.6E-04	2.7E-04	5.5E-04	2.5E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW

ADULT	4.3E-04	4.3E-04	1.4E-06	4.3E-04	4.3E-04	4.5E-04	4.3E-04	0.0E+00
TEEN	4.3E-04	4.3E-04	1.9E-06	4.3E-04	4.3E-04	4.6E-04	4.3E-04	0.0E+00
CHILD	3.8E-04	3.8E-04	2.6E-06	3.8E-04	3.8E-04	4.1E-04	3.8E-04	0.0E+00
INFNT	2.2E-04	2.2E-04	1.6E-06	2.2E-04	2.2E-04	2.5E-04	2.2E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	1.8E-03	1.7E-03	2.0E-04	1.8E-03	1.7E-03	1.9E-03	1.7E-03	1.3E-04
TEEN	1.9E-03	1.9E-03	2.5E-04	2.1E-03	1.9E-03	2.1E-03	1.9E-03	1.3E-04
CHILD	2.6E-03	2.6E-03	4.5E-04	2.9E-03	2.7E-03	3.0E-03	2.6E-03	1.3E-04
INFNT	7.0E-04	6.8E-04	2.4E-04	8.5E-04	7.3E-04	1.3E-03	7.0E-04	1.3E-04

TOTALS

ADULT	5.9E-03	5.8E-03	4.3E-03	6.0E-03	5.9E-03	6.1E-03	7.2E-03	9.7E-02
TEEN	6.1E-03	6.0E-03	4.4E-03	6.2E-03	6.1E-03	6.3E-03	7.4E-03	9.7E-02
CHILD	6.7E-03	6.7E-03	4.6E-03	7.0E-03	6.8E-03	7.1E-03	8.1E-03	9.7E-02
INFNT	4.8E-03	4.8E-03	4.4E-03	5.0E-03	4.9E-03	5.4E-03	6.2E-03	9.7E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

PLUME PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	7.2E-03	1.3E-01
TEEN	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	7.2E-03	1.3E-01
CHILD	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	7.2E-03	1.3E-01
INFNT	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	5.4E-03	7.2E-03	1.3E-01

GROUND PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.8E-04
TEEN	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.8E-04
CHILD	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.8E-04
INFNT	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.4E-04	2.8E-04

VEGET PATHWAY, DIST GP= 1, 863. METERS, WINDS TOWARD S

ADULT	1.4E-03	1.3E-03	1.4E-04	1.4E-03	1.3E-03	1.5E-03	1.3E-03	0.0E+00
TEEN	1.5E-03	1.4E-03	2.2E-04	1.7E-03	1.5E-03	1.6E-03	1.5E-03	0.0E+00
CHILD	2.3E-03	2.2E-03	5.2E-04	2.7E-03	2.4E-03	2.5E-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

MEAT PATHWAY, DIST GP= 1, 6115. METERS, WINDS TOWARD S

ADULT	9.7E-06	9.3E-06	5.2E-07	9.9E-06	9.4E-06	1.0E-05	9.2E-06	0.0E+00
TEEN	5.7E-06	5.6E-06	4.3E-07	6.1E-06	5.6E-06	6.3E-06	5.5E-06	0.0E+00
CHILD	6.7E-06	6.6E-06	7.9E-07	7.4E-06	6.8E-06	7.9E-06	6.7E-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, 3556. METERS, WINDS TOWARD S

ADULT	6.1E-05	5.0E-05	1.2E-05	6.7E-05	5.6E-05	1.4E-04	5.1E-05	0.0E+00
TEEN	7.6E-05	6.5E-05	2.2E-05	9.5E-05	7.5E-05	2.0E-04	6.8E-05	0.0E+00
CHILD	1.1E-04	1.0E-04	5.2E-05	1.5E-04	1.2E-04	3.8E-04	1.1E-04	0.0E+00
INFNT	1.6E-04	1.5E-04	8.3E-05	2.6E-04	1.8E-04	8.3E-04	1.7E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD S

ADULT	1.4E-04	1.0E-04	3.5E-05	1.5E-04	1.2E-04	2.1E-04	1.1E-04	0.0E+00
TEEN	1.7E-04	1.3E-04	6.4E-05	2.2E-04	1.6E-04	3.0E-04	1.4E-04	0.0E+00
CHILD	2.3E-04	2.1E-04	1.5E-04	3.6E-04	2.6E-04	5.4E-04	2.2E-04	0.0E+00
INFNT	3.4E-04	3.2E-04	2.5E-04	6.2E-04	4.0E-04	1.1E-03	3.5E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	5.3E-04	5.3E-04	1.4E-06	5.3E-04	5.3E-04	5.5E-04	5.3E-04	0.0E+00
TEEN	5.3E-04	5.3E-04	1.9E-06	5.3E-04	5.3E-04	5.6E-04	5.4E-04	0.0E+00
CHILD	4.7E-04	4.7E-04	2.6E-06	4.7E-04	4.7E-04	5.0E-04	4.7E-04	0.0E+00
INFNT	2.7E-04	2.7E-04	1.6E-06	2.7E-04	2.7E-04	3.0E-04	2.7E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.4E-03	2.2E-03	4.3E-04	2.4E-03	2.3E-03	2.7E-03	2.2E-03	2.8E-04
TEEN	2.6E-03	2.4E-03	5.5E-04	2.8E-03	2.5E-03	2.9E-03	2.4E-03	2.8E-04
CHILD	3.3E-03	3.2E-03	9.7E-04	4.0E-03	3.5E-03	4.2E-03	3.3E-03	2.8E-04
INFNT	1.0E-03	9.8E-04	5.7E-04	1.4E-03	1.1E-03	2.5E-03	1.0E-03	2.8E-04

TOTALS

ADULT	7.7E-03	7.6E-03	5.8E-03	7.8E-03	7.6E-03	8.0E-03	9.4E-03	1.3E-01
TEEN	7.9E-03	7.8E-03	5.9E-03	8.2E-03	7.9E-03	8.3E-03	9.7E-03	1.3E-01
CHILD	8.7E-03	8.6E-03	6.4E-03	9.3E-03	8.8E-03	9.6E-03	1.1E-02	1.3E-01
INFNT	6.4E-03	6.4E-03	6.0E-03	6.8E-03	6.5E-03	7.9E-03	8.2E-03	1.3E-01

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

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

ADULT	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	2.0E-03	3.1E-02
TEEN	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	2.0E-03	3.1E-02
CHILD	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	2.0E-03	3.1E-02
INFNT	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	2.0E-03	3.1E-02

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

ADULT	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	8.6E-05
TEEN	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	8.6E-05
CHILD	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	8.6E-05
INFNT	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	7.4E-05	8.6E-05

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

ADULT	5.5E-04	5.0E-04	5.3E-05	5.7E-04	5.2E-04	6.0E-04	5.0E-04	0.0E+00
TEEN	6.1E-04	5.8E-04	8.4E-05	6.9E-04	6.1E-04	6.5E-04	5.8E-04	0.0E+00
CHILD	9.1E-04	8.8E-04	2.0E-04	1.1E-03	9.4E-04	1.0E-03	9.0E-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

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

ADULT	7.7E-05	7.4E-05	5.3E-06	7.9E-05	7.4E-05	8.3E-05	7.2E-05	0.0E+00
TEEN	4.5E-05	4.4E-05	4.4E-06	4.9E-05	4.5E-05	5.1E-05	4.3E-05	0.0E+00
CHILD	5.3E-05	5.2E-05	8.1E-06	6.0E-05	5.4E-05	6.5E-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, 3556. METERS, WINDS TOWARD SSE

ADULT	3.6E-05	2.9E-05	6.7E-06	3.9E-05	3.3E-05	7.8E-05	3.0E-05	0.0E+00
TEEN	4.4E-05	3.8E-05	1.2E-05	5.5E-05	4.4E-05	1.2E-04	4.0E-05	0.0E+00
CHILD	6.5E-05	6.0E-05	2.9E-05	8.9E-05	7.0E-05	2.1E-04	6.3E-05	0.0E+00
INFNT	9.5E-05	9.1E-05	4.6E-05	1.5E-04	1.1E-04	4.6E-04	9.7E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSE

ADULT	7.9E-05	6.0E-05	2.0E-05	8.8E-05	6.9E-05	1.2E-04	6.3E-05	0.0E+00
TEEN	9.6E-05	7.8E-05	3.6E-05	1.3E-04	9.5E-05	1.7E-04	8.4E-05	0.0E+00
CHILD	1.4E-04	1.2E-04	8.6E-05	2.1E-04	1.5E-04	3.1E-04	1.3E-04	0.0E+00
INFNT	2.0E-04	1.9E-04	1.4E-04	3.5E-04	2.3E-04	6.3E-04	2.0E-04	0.0E+00

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

ADULT	1.7E-04	1.7E-04	6.2E-07	1.7E-04	1.7E-04	1.8E-04	1.7E-04	0.0E+00
TEEN	1.7E-04	1.7E-04	8.7E-07	1.7E-04	1.7E-04	1.9E-04	1.8E-04	0.0E+00
CHILD	1.5E-04	1.5E-04	1.2E-06	1.5E-04	1.5E-04	1.7E-04	1.6E-04	0.0E+00
INFNT	8.8E-05	8.8E-05	7.1E-07	8.9E-05	8.8E-05	1.0E-04	8.9E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	9.9E-04	9.1E-04	1.6E-04	1.0E-03	9.4E-04	1.1E-03	9.2E-04	8.6E-05
TEEN	1.0E-03	9.8E-04	2.1E-04	1.2E-03	1.0E-03	1.2E-03	1.0E-03	8.6E-05
CHILD	1.4E-03	1.3E-03	4.0E-04	1.7E-03	1.4E-03	1.8E-03	1.4E-03	8.6E-05
INFNT	4.6E-04	4.4E-04	2.6E-04	6.7E-04	5.0E-04	1.3E-03	4.6E-04	8.6E-05

TOTALS

ADULT	2.5E-03	2.4E-03	1.7E-03	2.6E-03	2.5E-03	2.7E-03	2.9E-03	3.2E-02
TEEN	2.6E-03	2.5E-03	1.7E-03	2.7E-03	2.6E-03	2.8E-03	3.0E-03	3.2E-02
CHILD	2.9E-03	2.9E-03	1.9E-03	3.2E-03	3.0E-03	3.4E-03	3.3E-03	3.2E-02
INFNT	2.0E-03	2.0E-03	1.8E-03	2.2E-03	2.0E-03	2.8E-03	2.4E-03	3.2E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT--
FOR DATES 93 7 1 1 THRU 93 93024

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

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

ADULT	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.4E-03	4.5E-02
TEEN	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.4E-03	4.5E-02
CHILD	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.4E-03	4.5E-02
INFNT	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.4E-03	4.5E-02

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

ADULT	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	9.3E-05
TEEN	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	9.3E-05
CHILD	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	9.3E-05
INFNT	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	8.0E-05	9.3E-05

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

ADULT	1.6E-03	1.6E-03	4.7E-05	1.6E-03	1.6E-03	1.8E-03	1.6E-03	0.0E+00
TEEN	1.8E-03	1.8E-03	7.5E-05	1.9E-03	1.8E-03	1.9E-03	1.8E-03	0.0E+00
CHILD	2.8E-03	2.8E-03	1.8E-04	3.0E-03	2.8E-03	3.0E-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, 4354. METERS, WINDS TOWARD SE

ADULT	1.6E-05	1.6E-05	3.7E-07	1.7E-05	1.6E-05	1.8E-05	1.6E-05	0.0E+00
TEEN	9.7E-06	9.6E-06	3.0E-07	1.0E-05	9.7E-06	1.1E-05	9.6E-06	0.0E+00
CHILD	1.2E-05	1.2E-05	5.5E-07	1.2E-05	1.2E-05	1.3E-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, 3556. METERS, WINDS TOWARD SE

ADULT	5.7E-05	5.3E-05	4.5E-06	5.9E-05	5.5E-05	1.2E-04	5.3E-05	0.0E+00
TEEN	7.3E-05	6.9E-05	8.1E-06	8.0E-05	7.3E-05	1.7E-04	7.0E-05	0.0E+00
CHILD	1.1E-04	1.1E-04	1.9E-05	1.3E-04	1.2E-04	3.1E-04	1.1E-04	0.0E+00
INFNT	1.7E-04	1.7E-04	3.1E-05	2.0E-04	1.8E-04	6.6E-04	1.7E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SE

ADULT	1.2E-04	1.1E-04	1.3E-05	1.3E-04	1.1E-04	1.9E-04	1.1E-04	0.0E+00
TEEN	1.5E-04	1.4E-04	2.4E-05	1.7E-04	1.5E-04	2.6E-04	1.4E-04	0.0E+00
CHILD	2.3E-04	2.2E-04	5.7E-05	2.8E-04	2.4E-04	4.7E-04	2.3E-04	0.0E+00
INFNT	3.5E-04	3.4E-04	9.1E-05	4.5E-04	3.7E-04	9.4E-04	3.5E-04	0.0E+00

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

ADULT	6.0E-04	6.0E-04	5.4E-07	6.0E-04	6.0E-04	6.1E-04	6.0E-04	0.0E+00
TEEN	6.0E-04	6.0E-04	7.5E-07	6.0E-04	6.0E-04	6.2E-04	6.0E-04	0.0E+00
CHILD	5.3E-04	5.3E-04	1.0E-06	5.3E-04	5.3E-04	5.5E-04	5.3E-04	0.0E+00
INFNT	3.1E-04	3.1E-04	6.2E-07	3.1E-04	3.1E-04	3.2E-04	3.1E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.5E-03	2.4E-03	1.5E-04	2.5E-03	2.5E-03	2.8E-03	2.4E-03	9.3E-05
TEEN	2.8E-03	2.7E-03	1.9E-04	2.9E-03	2.8E-03	3.1E-03	2.7E-03	9.3E-05
CHILD	3.8E-03	3.7E-03	3.3E-04	4.0E-03	3.8E-03	4.4E-03	3.8E-03	9.3E-05
INFNT	9.0E-04	8.9E-04	2.0E-04	1.0E-03	9.3E-04	2.0E-03	9.0E-04	9.3E-05

TOTALS

ADULT	4.3E-03	4.2E-03	2.0E-03	4.3E-03	4.3E-03	4.6E-03	4.9E-03	4.5E-02
TEEN	4.6E-03	4.5E-03	2.0E-03	4.7E-03	4.6E-03	4.9E-03	5.2E-03	4.5E-02
CHILD	5.6E-03	5.6E-03	2.1E-03	5.8E-03	5.6E-03	6.2E-03	6.2E-03	4.5E-02
INFNT	2.7E-03	2.7E-03	2.0E-03	2.9E-03	2.7E-03	3.8E-03	3.3E-03	4.5E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT --
FOR DATES 93 7 1 1 THRU 93 93024

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

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

ADULT	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.5E-03	2.7E-02
TEEN	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.5E-03	2.7E-02
CHILD	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.5E-03	2.7E-02
INFNT	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.5E-03	2.7E-02

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

ADULT	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	8.1E-05
TEEN	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	8.1E-05
CHILD	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	8.1E-05
INFNT	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	6.9E-05	8.1E-05

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

ADULT	2.4E-04	2.2E-04	3.0E-05	2.6E-04	2.3E-04	2.8E-04	2.2E-04	0.0E+00
TEEN	2.7E-04	2.5E-04	4.8E-05	3.1E-04	2.7E-04	3.0E-04	2.5E-04	0.0E+00
CHILD	4.0E-04	3.8E-04	1.1E-04	4.9E-04	4.2E-04	4.6E-04	3.9E-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

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

ADULT	1.8E-05	1.7E-05	1.6E-06	1.9E-05	1.7E-05	2.0E-05	1.7E-05	0.0E+00
TEEN	1.1E-05	1.0E-05	1.3E-06	1.2E-05	1.1E-05	1.3E-05	1.0E-05	0.0E+00
CHILD	1.2E-05	1.2E-05	2.4E-06	1.4E-05	1.3E-05	1.6E-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, 3556. METERS, WINDS TOWARD ESE

ADULT	2.9E-05	2.2E-05	7.4E-06	3.2E-05	2.5E-05	8.1E-05	2.3E-05	0.0E+00
TEEN	3.5E-05	2.8E-05	1.3E-05	4.7E-05	3.5E-05	1.2E-04	3.0E-05	0.0E+00
CHILD	5.0E-05	4.4E-05	3.2E-05	7.7E-05	5.5E-05	2.3E-04	4.8E-05	0.0E+00
INFNT	7.2E-05	6.7E-05	5.1E-05	1.3E-04	8.5E-05	5.2E-04	7.4E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ESE

ADULT	6.6E-05	4.4E-05	2.2E-05	7.6E-05	5.5E-05	1.1E-04	4.7E-05	0.0E+00
TEEN	7.8E-05	5.8E-05	4.0E-05	1.1E-04	7.7E-05	1.7E-04	6.4E-05	0.0E+00
CHILD	1.1E-04	9.0E-05	9.5E-05	1.9E-04	1.2E-04	3.1E-04	1.0E-04	0.0E+00
INFNT	1.5E-04	1.4E-04	1.5E-04	3.3E-04	1.9E-04	6.8E-04	1.6E-04	0.0E+00

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

ADULT	1.2E-04	1.2E-04	3.2E-07	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
TEEN	1.2E-04	1.2E-04	4.5E-07	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
CHILD	1.0E-04	1.0E-04	6.0E-07	1.0E-04	1.0E-04	1.1E-04	1.1E-04	0.0E+00
INFNT	6.0E-05	6.0E-05	3.7E-07	6.0E-05	6.0E-05	6.7E-05	6.1E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	5.4E-04	4.9E-04	1.3E-04	5.7E-04	5.1E-04	6.8E-04	4.9E-04	8.1E-05
TEEN	5.8E-04	5.3E-04	1.7E-04	6.7E-04	5.8E-04	7.9E-04	5.5E-04	8.1E-05
CHILD	7.4E-04	7.0E-04	3.1E-04	9.5E-04	7.8E-04	1.2E-03	7.3E-04	8.1E-05
INFNT	3.5E-04	3.3E-04	2.7E-04	5.9E-04	4.0E-04	1.3E-03	3.6E-04	8.1E-05

TOTALS

ADULT	1.7E-03	1.6E-03	1.3E-03	1.7E-03	1.7E-03	1.8E-03	2.0E-03	2.7E-02
TEEN	1.7E-03	1.7E-03	1.3E-03	1.8E-03	1.7E-03	1.9E-03	2.1E-03	2.7E-02
CHILD	1.9E-03	1.9E-03	1.5E-03	2.1E-03	1.9E-03	2.3E-03	2.3E-03	2.7E-02
INFNT	1.5E-03	1.5E-03	1.4E-03	1.7E-03	1.6E-03	2.5E-03	1.9E-03	2.7E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

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

ADULT	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	1.0E-03	1.6E-02
TEEN	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	1.0E-03	1.6E-02
CHILD	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	1.0E-03	1.6E-02
INFNT	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	7.8E-04	1.0E-03	1.6E-02

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

ADULT	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	6.4E-05
TEEN	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	6.4E-05
CHILD	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	6.4E-05
INFNT	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	5.5E-05	6.4E-05

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

ADULT	2.0E-04	1.8E-04	2.3E-05	2.1E-04	1.9E-04	2.2E-04	1.8E-04	0.0E+00
TEEN	2.2E-04	2.0E-04	3.6E-05	2.5E-04	2.2E-04	2.4E-04	2.1E-04	0.0E+00
CHILD	3.3E-04	3.1E-04	8.4E-05	4.0E-04	3.4E-04	3.7E-04	3.2E-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, 6810. METERS, WINDS TOWARD E

ADULT	3.4E-06	3.3E-06	2.2E-07	3.5E-06	3.3E-06	3.7E-06	3.2E-06	0.0E+00
TEEN	2.0E-06	2.0E-06	1.8E-07	2.2E-06	2.0E-06	2.3E-06	1.9E-06	0.0E+00
CHILD	2.4E-06	2.3E-06	3.3E-07	2.6E-06	2.4E-06	2.9E-06	2.3E-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, 3556. METERS, WINDS TOWARD E

ADULT	2.5E-05	2.0E-05	6.0E-06	2.8E-05	2.3E-05	6.7E-05	2.0E-05	0.0E+00
TEEN	3.1E-05	2.6E-05	1.1E-05	4.1E-05	3.1E-05	1.0E-04	2.7E-05	0.0E+00
CHILD	4.5E-05	4.0E-05	2.6E-05	6.7E-05	4.9E-05	1.9E-04	4.3E-05	0.0E+00
INFNT	6.5E-05	6.1E-05	4.1E-05	1.1E-04	7.6E-05	4.2E-04	6.6E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD E

ADULT	5.8E-05	4.0E-05	1.8E-05	6.6E-05	4.9E-05	9.7E-05	4.3E-05	0.0E+00
TEEN	6.9E-05	5.3E-05	3.2E-05	9.8E-05	6.8E-05	1.4E-04	5.8E-05	0.0E+00
CHILD	9.4E-05	8.2E-05	7.7E-05	1.6E-04	1.1E-04	2.6E-04	9.1E-05	0.0E+00
INFNT	1.4E-04	1.3E-04	1.2E-04	2.8E-04	1.7E-04	5.6E-04	1.4E-04	0.0E+00

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

ADULT	9.7E-05	9.6E-05	5.2E-07	9.7E-05	9.7E-05	1.0E-04	9.8E-05	0.0E+00
TEEN	9.7E-05	9.7E-05	7.3E-07	9.8E-05	9.7E-05	1.1E-04	9.9E-05	0.0E+00
CHILD	8.6E-05	8.6E-05	9.8E-07	8.7E-05	8.6E-05	9.7E-05	8.8E-05	0.0E+00
INFNT	4.9E-05	4.9E-05	6.0E-07	5.0E-05	4.9E-05	6.0E-05	5.0E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	4.4E-04	3.9E-04	1.0E-04	4.6E-04	4.1E-04	5.5E-04	4.0E-04	6.4E-05
TEEN	4.7E-04	4.4E-04	1.3E-04	5.5E-04	4.7E-04	6.5E-04	4.5E-04	6.4E-05
CHILD	6.1E-04	5.8E-04	2.4E-04	7.7E-04	6.4E-04	9.7E-04	6.0E-04	6.4E-05
INFNT	3.1E-04	2.9E-04	2.2E-04	4.9E-04	3.5E-04	1.1E-03	3.1E-04	6.4E-05

TOTALS

ADULT	1.2E-03	1.2E-03	8.8E-04	1.2E-03	1.2E-03	1.3E-03	1.4E-03	1.6E-02
TEEN	1.3E-03	1.2E-03	9.1E-04	1.3E-03	1.3E-03	1.4E-03	1.5E-03	1.6E-02
CHILD	1.4E-03	1.4E-03	1.0E-03	1.5E-03	1.4E-03	1.8E-03	1.6E-03	1.6E-02
INFNT	1.1E-03	1.1E-03	1.0E-03	1.3E-03	1.1E-03	1.9E-03	1.3E-03	1.6E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

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

ADULT	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.4E-03	2.6E-02
TEEN	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.4E-03	2.6E-02
CHILD	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.4E-03	2.6E-02
INFNT	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.4E-03	2.6E-02

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

ADULT	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	1.0E-04
TEEN	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	1.0E-04
CHILD	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	1.0E-04
INFNT	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	8.6E-05	1.0E-04

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

ADULT	2.1E-04	1.8E-04	3.5E-05	2.3E-04	1.9E-04	2.4E-04	1.8E-04	0.0E+00
TEEN	2.3E-04	2.1E-04	5.5E-05	2.8E-04	2.3E-04	2.5E-04	2.1E-04	0.0E+00
CHILD	3.3E-04	3.1E-04	1.3E-04	4.4E-04	3.5E-04	3.9E-04	3.3E-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, 3862. METERS, WINDS TOWARD ENE

ADULT	9.5E-06	8.8E-06	1.1E-06	1.0E-05	8.9E-06	1.1E-05	8.6E-06	0.0E+00
TEEN	5.5E-06	5.2E-06	8.8E-07	6.3E-06	5.4E-06	6.6E-06	5.2E-06	0.0E+00
CHILD	6.4E-06	6.2E-06	1.6E-06	7.7E-06	6.6E-06	8.5E-06	6.2E-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, 3556. METERS, WINDS TOWARD ENE

ADULT	3.3E-05	2.3E-05	1.0E-05	3.7E-05	2.8E-05	9.3E-05	2.4E-05	0.0E+00
TEEN	3.9E-05	2.9E-05	1.9E-05	5.6E-05	3.8E-05	1.4E-04	3.2E-05	0.0E+00
CHILD	5.3E-05	4.6E-05	4.5E-05	9.2E-05	6.1E-05	2.7E-04	5.1E-05	0.0E+00
INFNT	7.7E-05	7.0E-05	7.2E-05	1.6E-04	9.5E-05	6.1E-04	7.9E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ENE

ADULT	7.6E-05	4.6E-05	3.1E-05	9.1E-05	6.1E-05	1.3E-04	5.0E-05	0.0E+00
TEEN	8.8E-05	6.0E-05	5.6E-05	1.4E-04	8.6E-05	1.9E-04	6.9E-05	0.0E+00
CHILD	1.1E-04	9.4E-05	1.3E-04	2.3E-04	1.4E-04	3.6E-04	1.1E-04	0.0E+00
INFNT	1.6E-04	1.4E-04	2.1E-04	4.1E-04	2.1E-04	7.9E-04	1.7E-04	0.0E+00

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

ADULT	1.1E-04	1.1E-04	4.1E-07	1.1E-04	1.1E-04	1.1E-04	1.1E-04	0.0E+00
TEEN	1.1E-04	1.1E-04	5.7E-07	1.1E-04	1.1E-04	1.2E-04	1.1E-04	0.0E+00
CHILD	9.5E-05	9.5E-05	7.7E-07	9.5E-05	9.5E-05	1.0E-04	9.6E-05	0.0E+00
INFNT	5.4E-05	5.4E-05	4.7E-07	5.5E-05	5.5E-05	6.3E-05	5.5E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	5.2E-04	4.5E-04	1.6E-04	5.6E-04	4.8E-04	6.7E-04	4.6E-04	1.0E-04
TEEN	5.6E-04	4.9E-04	2.2E-04	6.7E-04	5.5E-04	7.9E-04	5.1E-04	1.0E-04
CHILD	6.9E-04	6.4E-04	4.0E-04	9.5E-04	7.4E-04	1.2E-03	6.7E-04	1.0E-04
INFNT	3.8E-04	3.5E-04	3.7E-04	7.1E-04	4.5E-04	1.5E-03	3.9E-04	1.0E-04

TOTALS

ADULT	1.5E-03	1.5E-03	1.2E-03	1.6E-03	1.5E-03	1.7E-03	1.8E-03	2.6E-02
TEEN	1.6E-03	1.5E-03	1.2E-03	1.7E-03	1.6E-03	1.8E-03	1.9E-03	2.6E-02
CHILD	1.7E-03	1.7E-03	1.4E-03	2.0E-03	1.8E-03	2.2E-03	2.1E-03	2.6E-02
INFNT	1.4E-03	1.4E-03	1.4E-03	1.7E-03	1.5E-03	2.6E-03	1.8E-03	2.6E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

PLUME PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE

ADULT	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	7.1E-03	1.1E-01
TEEN	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	7.1E-03	1.1E-01
CHILD	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	7.1E-03	1.1E-01
INFNT	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03	7.1E-03	1.1E-01

GROUND PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE

ADULT	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	3.5E-04
TEEN	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	3.5E-04
CHILD	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	3.5E-04
INFNT	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	2.9E-04	3.5E-04

VEGET PATHWAY, DIST GP= 1, 1052. METERS, WINDS TOWARD NE

ADULT	1.0E-03	9.6E-04	1.0E-04	1.1E-03	9.9E-04	1.1E-03	9.6E-04	0.0E+00
TEEN	1.2E-03	1.1E-03	1.6E-04	1.3E-03	1.2E-03	1.2E-03	1.1E-03	0.0E+00
CHILD	1.7E-03	1.7E-03	3.7E-04	2.0E-03	1.8E-03	1.9E-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

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

ADULT	7.6E-06	7.4E-06	3.4E-07	7.7E-06	7.4E-06	8.0E-06	7.3E-06	0.0E+00
TEEN	4.5E-06	4.4E-06	2.8E-07	4.7E-06	4.4E-06	4.9E-06	4.3E-06	0.0E+00
CHILD	5.3E-06	5.2E-06	5.2E-07	5.7E-06	5.4E-06	6.1E-06	5.2E-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, 3556. METERS, WINDS TOWARD NE

ADULT	6.4E-05	5.2E-05	1.2E-05	6.9E-05	5.8E-05	1.4E-04	5.4E-05	0.0E+00
TEEN	7.9E-05	6.8E-05	2.1E-05	9.8E-05	7.9E-05	2.1E-04	7.2E-05	0.0E+00
CHILD	1.2E-04	1.1E-04	5.1E-05	1.6E-04	1.2E-04	3.9E-04	1.1E-04	0.0E+00
INFNT	1.7E-04	1.6E-04	8.2E-05	2.6E-04	1.9E-04	8.6E-04	1.7E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NE

ADULT	1.4E-04	1.1E-04	3.5E-05	1.6E-04	1.2E-04	2.2E-04	1.1E-04	0.0E+00
TEEN	1.7E-04	1.4E-04	6.3E-05	2.3E-04	1.7E-04	3.1E-04	1.5E-04	0.0E+00
CHILD	2.4E-04	2.2E-04	1.5E-04	3.7E-04	2.7E-04	5.6E-04	2.3E-04	0.0E+00
INFNT	3.6E-04	3.3E-04	2.4E-04	6.3E-04	4.1E-04	1.2E-03	3.6E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE

ADULT	6.2E-04	6.1E-04	1.8E-06	6.2E-04	6.2E-04	6.5E-04	6.2E-04	0.0E+00
TEEN	6.2E-04	6.2E-04	2.5E-06	6.2E-04	6.2E-04	6.6E-04	6.3E-04	0.0E+00
CHILD	5.5E-04	5.5E-04	3.3E-06	5.5E-04	5.5E-04	5.9E-04	5.5E-04	0.0E+00
INFNT	3.1E-04	3.1E-04	2.0E-06	3.2E-04	3.1E-04	3.6E-04	3.2E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.2E-03	2.0E-03	4.4E-04	2.2E-03	2.1E-03	2.4E-03	2.0E-03	3.5E-04
TEEN	2.3E-03	2.2E-03	5.4E-04	2.5E-03	2.3E-03	2.7E-03	2.3E-03	3.5E-04
CHILD	2.9E-03	2.8E-03	8.7E-04	3.4E-03	3.0E-03	3.8E-03	2.9E-03	3.5E-04
INFNT	1.1E-03	1.1E-03	6.2E-04	1.5E-03	1.2E-03	2.7E-03	1.2E-03	3.5E-04

TOTALS

ADULT	7.8E-03	7.6E-03	6.0E-03	7.8E-03	7.7E-03	8.0E-03	9.2E-03	1.1E-01
TEEN	7.9E-03	7.8E-03	6.1E-03	8.1E-03	7.9E-03	8.3E-03	9.4E-03	1.1E-01
CHILD	8.5E-03	8.4E-03	6.5E-03	9.0E-03	8.6E-03	9.3E-03	1.0E-02	1.1E-01
INFNT	6.7E-03	6.7E-03	6.2E-03	7.1E-03	6.8E-03	8.3E-03	8.3E-03	1.1E-01

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 93 7 1 1 THRU 93 93024

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

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

ADULT	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.9E-02	3.0E-01
TEEN	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.9E-02	3.0E-01
CHILD	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.9E-02	3.0E-01
INFNT	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.9E-02	3.0E-01

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

ADULT	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	7.0E-04
TEEN	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	7.0E-04
CHILD	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	7.0E-04
INFNT	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	6.0E-04	7.0E-04

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

ADULT	2.3E-03	2.1E-03	1.7E-04	2.4E-03	2.2E-03	2.5E-03	2.1E-03	0.0E+00
TEEN	2.6E-03	2.5E-03	2.7E-04	2.8E-03	2.6E-03	2.7E-03	2.5E-03	0.0E+00
CHILD	3.9E-03	3.8E-03	6.4E-04	4.4E-03	4.0E-03	4.2E-03	3.8E-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	1.2E-05	1.2E-05	3.8E-07	1.2E-05	1.2E-05	1.2E-05	1.1E-05	0.0E+00
TEEN	7.0E-06	6.9E-06	3.2E-07	7.3E-06	7.0E-06	7.5E-06	6.9E-06	0.0E+00
CHILD	8.3E-06	8.3E-06	5.8E-07	8.8E-06	8.4E-06	9.2E-06	8.3E-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, 3556. METERS, WINDS TOWARD NNE

ADULT	9.3E-05	8.0E-05	1.3E-05	9.9E-05	8.7E-05	1.8E-04	8.2E-05	0.0E+00
TEEN	1.2E-04	1.0E-04	2.4E-05	1.4E-04	1.2E-04	2.7E-04	1.1E-04	0.0E+00
CHILD	1.7E-04	1.6E-04	5.7E-05	2.2E-04	1.8E-04	4.9E-04	1.7E-04	0.0E+00
INFNT	2.6E-04	2.5E-04	9.2E-05	3.6E-04	2.8E-04	1.0E-03	2.6E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NNE

ADULT	2.0E-04	1.6E-04	3.9E-05	2.2E-04	1.8E-04	2.9E-04	1.7E-04	0.0E+00
TEEN	2.5E-04	2.1E-04	7.1E-05	3.1E-04	2.5E-04	4.1E-04	2.3E-04	0.0E+00
CHILD	3.6E-04	3.4E-04	1.7E-04	5.1E-04	3.9E-04	7.2E-04	3.5E-04	0.0E+00
INFNT	5.4E-04	5.1E-04	2.7E-04	8.5E-04	6.0E-04	1.5E-03	5.5E-04	0.0E+00

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

ADULT	1.6E-03	1.6E-03	4.2E-06	1.6E-03	1.6E-03	1.7E-03	1.6E-03	0.0E+00
TEEN	1.6E-03	1.6E-03	5.9E-06	1.6E-03	1.6E-03	1.7E-03	1.7E-03	0.0E+00
CHILD	1.4E-03	1.4E-03	7.9E-06	1.5E-03	1.4E-03	1.6E-03	1.5E-03	0.0E+00
INFNT	8.3E-04	8.3E-04	4.9E-06	8.3E-04	8.3E-04	9.3E-04	8.4E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	4.8E-03	4.6E-03	8.3E-04	4.9E-03	4.7E-03	5.3E-03	4.6E-03	7.0E-04
TEEN	5.2E-03	5.0E-03	9.7E-04	5.5E-03	5.2E-03	5.7E-03	5.1E-03	7.0E-04
CHILD	6.4E-03	6.3E-03	1.5E-03	7.2E-03	6.6E-03	7.6E-03	6.4E-03	7.0E-04
INFNT	2.2E-03	2.2E-03	9.7E-04	2.6E-03	2.3E-03	4.0E-03	2.2E-03	7.0E-04

TOTALS

ADULT	2.0E-02	1.9E-02	1.6E-02	2.0E-02	1.9E-02	2.0E-02	2.3E-02	3.0E-01
TEEN	2.0E-02	2.0E-02	1.6E-02	2.0E-02	2.0E-02	2.0E-02	2.4E-02	3.0E-01
CHILD	2.1E-02	2.1E-02	1.6E-02	2.2E-02	2.1E-02	2.2E-02	2.5E-02	3.0E-01
INFNT	1.7E-02	1.7E-02	1.6E-02	1.7E-02	1.7E-02	1.9E-02	2.1E-02	3.0E-01

 INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
 FOR DATES 93 7 1 1 THRU 93 93024

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

PLUME PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	5.7E-02	9.9E-01
TEEN	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	5.7E-02	9.9E-01
CHILD	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	5.7E-02	9.9E-01
INFNT	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	5.7E-02	9.9E-01

GROUND PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.2E-03
TEEN	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.2E-03
CHILD	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.2E-03
INFNT	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.2E-03

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

ADULT	2.2E-04	2.1E-04	6.2E-06	2.2E-04	2.1E-04	2.2E-04	2.1E-04	0.0E+00
TEEN	2.5E-04	2.4E-04	9.9E-06	2.5E-04	2.4E-04	2.5E-04	2.4E-04	0.0E+00
CHILD	3.7E-04	3.7E-04	2.3E-05	3.9E-04	3.8E-04	3.9E-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 N

ADULT	3.1E-05	3.0E-05	6.2E-07	3.1E-05	3.0E-05	3.2E-05	3.0E-05	0.0E+00
TEEN	1.8E-05	1.8E-05	5.2E-07	1.9E-05	1.8E-05	1.9E-05	1.8E-05	0.0E+00
CHILD	2.2E-05	2.2E-05	9.5E-07	2.3E-05	2.2E-05	2.3E-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, 3556. METERS, WINDS TOWARD N

ADULT	2.4E-04	2.1E-04	2.3E-05	2.5E-04	2.3E-04	3.9E-04	2.2E-04	0.0E+00
TEEN	3.0E-04	2.8E-04	4.2E-05	3.4E-04	3.0E-04	5.5E-04	2.9E-04	0.0E+00
CHILD	4.6E-04	4.4E-04	1.0E-04	5.4E-04	4.7E-04	9.8E-04	4.5E-04	0.0E+00
INFNT	6.8E-04	6.7E-04	1.6E-04	8.6E-04	7.2E-04	2.0E-03	6.9E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD N

ADULT	5.0E-04	4.4E-04	6.9E-05	5.4E-04	4.7E-04	6.4E-04	4.5E-04	0.0E+00
TEEN	6.3E-04	5.7E-04	1.2E-04	7.4E-04	6.3E-04	8.9E-04	5.9E-04	0.0E+00
CHILD	9.4E-04	8.9E-04	3.0E-04	1.2E-03	9.9E-04	1.5E-03	9.3E-04	0.0E+00
INFNT	1.4E-03	1.4E-03	4.8E-04	2.0E-03	1.5E-03	2.9E-03	1.4E-03	0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	4.5E-03	4.5E-03	1.2E-05	4.5E-03	4.5E-03	4.7E-03	4.5E-03	0.0E+00
TEEN	4.5E-03	4.5E-03	1.7E-05	4.5E-03	4.5E-03	4.8E-03	4.5E-03	0.0E+00
CHILD	4.0E-03	4.0E-03	2.3E-05	4.0E-03	4.0E-03	4.3E-03	4.0E-03	0.0E+00
INFNT	2.3E-03	2.3E-03	1.4E-05	2.3E-03	2.3E-03	2.6E-03	2.3E-03	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	6.4E-03	6.3E-03	1.1E-03	6.5E-03	6.4E-03	7.0E-03	6.4E-03	1.2E-03
TEEN	6.7E-03	6.6E-03	1.2E-03	6.9E-03	6.7E-03	7.5E-03	6.7E-03	1.2E-03
CHILD	6.8E-03	6.7E-03	1.4E-03	7.1E-03	6.8E-03	8.2E-03	6.8E-03	1.2E-03
INFNT	5.4E-03	5.3E-03	1.6E-03	6.1E-03	5.5E-03	8.5E-03	5.4E-03	1.2E-03

TOTALS

ADULT	5.0E-02	5.0E-02	4.5E-02	5.0E-02	5.0E-02	5.1E-02	6.4E-02	9.9E-01
TEEN	5.0E-02	5.0E-02	4.5E-02	5.0E-02	5.0E-02	5.1E-02	6.4E-02	9.9E-01
CHILD	5.0E-02	5.0E-02	4.5E-02	5.1E-02	5.0E-02	5.2E-02	6.4E-02	9.9E-01
INFNT	4.9E-02	4.9E-02	4.5E-02	5.0E-02	4.9E-02	5.2E-02	6.3E-02	9.9E-01

APPENDIX 1.5

Summary of Maximum Individual Doses
Fourth Quarter, 1993

SUMMARY OF MAXIMUM INDIVIDUAL DOSES

4th Quarter 1993

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mRem)	AGE GROUP	LOCATION DIST DIR (M) (Toward)	% OF APPLICABLE LIMIT	LIMIT (mRem) QTR
Liquid	Total Body	4.76E-2	Adult	Receptor 1	3.17E+0	1.5E+0
Liquid	Liver	6.42E-2	Teen	Receptor 1	1.28E+0	5.0E+0
Noble Gas	Air Dose (Gamma-mrad)	3.07E-2		651 N	6.14E-1	5.0E+0
Noble Gas	Air dose (Beta-mrad)	1.63E-1		651 N	1.63E+0	1.0E+1
Iodines and Particulates	Liver	1.19E-2	Child	659 N	1.59E-1	7.5E+0

FOR RECEPTOR NUMBER 1

LAST LIQUID DOSE ACCUMULATIONS(MREM)									
START DATE	9310 1 1	END DATE 93123124							
	BONE	LIVER	T.BODY	THYRD	KIDNEY	LUNG	GI-LLI	SKIN	
WATER									
ADULT	2.5E-04	2.6E-03	2.5E-03	2.3E-03	2.3E-03	2.3E-03	2.3E-03	0.0E+00	
TEEN	2.4E-04	1.9E-03	1.7E-03	1.7E-03	1.7E-03	1.6E-03	1.6E-03	0.0E+00	
CHILD	6.7E-04	3.8E-03	3.1E-03	3.3E-03	3.2E-03	3.1E-03	3.0E-03	0.0E+00	
INFANT	6.9E-04	3.9E-03	3.0E-03	3.4E-03	3.2E-03	3.0E-03	3.0E-03	0.0E+00	
SHORE									
ADULT	3.4E-05	3.4E-05	3.4E-05	3.4E-05	3.4E-05	3.4E-05	3.4E-05	4.0E-05	
TEEN	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	1.9E-04	2.2E-04	
CHILD	4.0E-05	4.0E-05	4.0E-05	4.0E-05	4.0E-05	4.0E-05	4.0E-05	4.7E-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-02	6.1E-02	4.5E-02	2.8E-04	2.0E-02	6.8E-03	1.6E-03	0.0E+00	
TEEN	3.6E-02	6.2E-02	2.6E-02	2.4E-04	2.0E-02	8.0E-03	1.1E-03	0.0E+00	
CHILD	4.4E-02	5.4E-02	9.9E-03	2.2E-04	1.7E-02	6.3E-03	4.8E-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	
TOTAL									
ADULT	3.4E-02	6.3E-02	4.8E-02	2.6E-03	2.2E-02	9.1E-03	3.9E-03	4.0E-05	
TEEN	3.6E-02	6.4E-02	2.7E-02	2.1E-03	2.2E-02	9.8E-03	3.0E-03	2.2E-04	
CHILD	4.5E-02	5.8E-02	1.3E-02	3.5E-03	2.0E-02	9.4E-03	3.6E-03	4.7E-05	
INFANT	6.9E-04	3.9E-03	3.0E-03	3.4E-03	3.2E-03	3.0E-03	3.0E-03	0.0E+00	

...
 DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9310 1 1 0 TO 93123124 0
 DOSE ACCUMULATION FOR GAMMA MRAD
 FOR RELEASE POINT 1

**DIRECTION FROM N
 1.5770E-02 1.7958E-03 7.9271E-04 4.5086E-04 3.0480E-04
 1.4040E-04 4.8235E-05 2.2268E-05 1.3508E-05 7.7877E-06
 **DIRECTION FROM NNE
 1.3135E-03 1.0055E-04 3.9940E-05 2.1551E-05 1.3745E-05
 5.6427E-06 1.7057E-06 8.5844E-07 6.1316E-07 4.2895E-07
 **DIRECTION FROM NE
 2.2999E-07 2.5185E-08 1.1061E-08 6.2863E-09 4.2469E-09
 1.9557E-09 6.7364E-10 3.1332E-10 1.9168E-10 1.1184E-10
 **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
 **DIRECTION FROM SE
 3.5479E-03 4.1050E-04 1.8043E-04 1.0220E-04 6.8878E-05
 3.1501E-05 1.0671E-05 4.8591E-06 2.9161E-06 1.6557E-06
 **DIRECTION FROM SSE
 9.4599E-03 1.2610E-03 5.6916E-04 3.2593E-04 2.2713E-04
 1.1298E-04 4.2640E-05 2.0728E-05 1.3082E-05 8.0398E-06
 **DIRECTION FROM S
 9.3636E-03 1.0834E-03 4.7618E-04 2.6972E-04 1.8178E-04
 8.3138E-05 2.8162E-05 1.2824E-05 7.6963E-06 4.3696E-06
 **DIRECTION FROM SSW
 1.0155E-02 1.1070E-03 4.8096E-04 2.7101E-04 1.8162E-04
 8.2215E-05 2.7578E-05 1.2666E-05 7.7307E-06 4.4959E-06
 **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
 9.8552E-04 1.1403E-04 5.0119E-05 2.8388E-05 1.9133E-05
 8.7504E-06 2.9641E-06 1.3497E-06 8.1004E-07 4.5991E-07
 **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
 5.4628E-03 5.7946E-04 2.5034E-04 1.4070E-04 9.4031E-05
 4.2347E-05 1.4134E-05 6.5197E-06 4.0130E-06 2.3611E-06
 **DIRECTION FROM NNW
 1.8612E-02 2.1008E-03 9.1902E-04 5.1945E-04 3.4930E-04
 1.5909E-04 5.3680E-05 2.4528E-05 1.4820E-05 8.4973E-06

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0
 12067.0 24135.0 40225.0 56315.0 80500.0

FOR RELEASE POINT 2

**DIRECTION FROM N

5.2870E-03	5.9262E-04	2.6150E-04	1.4889E-04	1.0151E-04
4.7938E-05	1.7088E-05	8.1341E-06	5.0744E-06	3.0522E-06

**DIRECTION FROM NNE

2.8052E-03	3.3407E-04	1.5294E-04	8.9300E-05	6.1757E-05
3.0001E-05	1.1248E-05	5.5004E-06	3.4910E-06	2.1509E-06

**DIRECTION FROM NE

8.2382E-03	9.8177E-04	4.4988E-04	2.6228E-04	1.8213E-04
8.9316E-05	3.3612E-05	1.6341E-05	1.0309E-05	6.3531E-06

**DIRECTION FROM ENE

8.4296E-03	1.0438E-03	4.9391E-04	2.9437E-04	2.0607E-04
1.0240E-04	3.9697E-05	1.9653E-05	1.2547E-05	7.8336E-06

**DIRECTION FROM E

1.7035E-02	1.9864E-03	9.9424E-04	6.1529E-04	4.3831E-04
2.2429E-04	9.0833E-05	4.5622E-05	2.9322E-05	1.8713E-05

**DIRECTION FROM ESE

1.2211E-02	1.3343E-03	6.6835E-04	4.1428E-04	2.9606E-04
1.5245E-04	6.1912E-05	3.0997E-05	1.9865E-05	1.2732E-05

**DIRECTION FROM SE

1.4983E-02	1.7794E-03	8.6686E-04	5.2681E-04	3.7300E-04
1.8918E-04	7.5298E-05	3.7532E-05	2.4022E-05	1.5212E-05

**DIRECTION FROM SSE

3.1459E-02	3.4996E-03	1.7753E-03	1.1088E-03	7.9364E-04
4.0934E-04	1.6735E-04	8.4183E-05	5.4125E-05	3.4760E-05

**DIRECTION FROM S

2.5923E-02	3.0120E-03	1.4513E-03	8.7625E-04	6.1881E-04
3.1246E-04	1.2333E-04	6.1209E-05	3.9065E-05	2.4668E-05

**DIRECTION FROM SSW

1.0717E-02	1.3001E-03	5.9537E-04	3.4696E-04	2.3996E-04
1.1650E-04	4.3439E-05	2.1063E-05	1.3264E-05	8.1096E-06

**DIRECTION FROM SW

5.0237E-03	5.7481E-04	2.5406E-04	1.4462E-04	9.8628E-05
4.6576E-05	1.6572E-05	7.8549E-06	4.8792E-06	2.9185E-06

**DIRECTION FROM WSW

3.6490E-03	3.9238E-04	1.7275E-04	9.8512E-05	6.7186E-05
3.1763E-05	1.1382E-05	5.4635E-06	3.4326E-06	2.0827E-06

**DIRECTION FROM W

5.1439E-03	5.5317E-04	2.5637E-04	1.5137E-04	1.0536E-04
5.1725E-05	1.9593E-05	9.5370E-06	6.0110E-06	3.7319E-06

**DIRECTION FROM WNW

5.0799E-03	5.8952E-04	2.6158E-04	1.4923E-04	1.0222E-04
4.8774E-05	1.7583E-05	8.3862E-06	5.2261E-06	3.1425E-06

**DIRECTION FROM NW

4.4534E-03	4.8948E-04	2.1824E-04	1.2547E-04	8.5414E-05
4.0049E-05	1.4290E-05	6.8343E-06	4.2808E-06	2.5836E-06

**DIRECTION FROM NNW

3.9120E-03	4.4145E-04	1.9470E-04	1.1078E-04	7.5323E-05
3.5287E-05	1.2426E-05	5.8507E-06	3.6138E-06	2.1426E-06

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

DATES OF LAST AIR DOSE ACCUMULATION ARE FROM 9310 1 1 0 TO 93123124 0
DOSE ACCUMULATION FOR BETA MRAD
FOR RELEASE POINT 1

**DIRECTION FROM N				
7.4956E-02	8.5354E-03	3.7677E-03	2.1429E-03	1.4487E-03
6.6730E-04	2.2926E-04	1.0584E-04	6.4201E-05	3.7014E-05
**DIRECTION FROM NNE				
6.2449E-03	4.7813E-04	1.8994E-04	1.0249E-04	6.5369E-05
2.6838E-05	8.1135E-06	4.0829E-06	2.9160E-06	2.0397E-06
**DIRECTION FROM NE				
2.0755E-05	2.2728E-06	9.9818E-07	5.6730E-07	3.8325E-07
1.7649E-07	6.0791E-08	2.8275E-08	1.7298E-08	1.0092E-08
**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
**DIRECTION FROM SE				
1.4112E-02	1.6328E-03	7.1765E-04	4.0649E-04	2.7396E-04
1.2530E-04	4.2443E-05	1.9327E-05	1.1599E-05	6.5855E-06
**DIRECTION FROM SSE				
3.7627E-02	5.0157E-03	2.2639E-03	1.2964E-03	9.0342E-04
4.4940E-04	1.6960E-04	8.2446E-05	5.2033E-05	3.1978E-05
**DIRECTION FROM S				
3.8318E-02	4.4335E-03	1.9487E-03	1.1038E-03	7.4390E-04
3.4022E-04	1.1525E-04	5.2479E-05	3.1495E-05	1.7882E-05
**DIRECTION FROM SSW				
4.1502E-02	4.5318E-03	1.9695E-03	1.1099E-03	7.4397E-04
3.3688E-04	1.1303E-04	5.1900E-05	3.1662E-05	1.8401E-05
**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				
3.9199E-03	4.5355E-04	1.9935E-04	1.1291E-04	7.6101E-05
3.4805E-05	1.1790E-05	5.3686E-06	3.2219E-06	1.8293E-06
**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				
2.3461E-02	2.4979E-03	1.0800E-03	6.0721E-04	4.0596E-04
1.8296E-04	6.1108E-05	2.8171E-05	1.7319E-05	1.0173E-05
**DIRECTION FROM NNW				
8.2701E-02	9.3592E-03	4.0964E-03	2.3159E-03	1.5577E-03
7.0978E-04	2.3959E-04	1.0943E-04	6.6075E-05	3.7844E-05

DISTANCES USED IN CALCULATIONS

594.0 2416.0 4020.0 5630.0 7240.0
12067.0 24135.0 40225.0 56315.0 80500.0

FOR RELEASE POINT - 2

**DIRECTION FROM N

3.4415E-02	3.8336E-03	1.6852E-03	9.5713E-04	6.4939E-04
3.0290E-04	1.0611E-04	4.9946E-05	3.0909E-05	1.8369E-05

**DIRECTION FROM NNE

2.7182E-02	3.3218E-03	1.5487E-03	9.1543E-04	6.3775E-04
3.1434E-04	1.2069E-04	5.9767E-05	3.8233E-05	2.3806E-05

**DIRECTION FROM NE

5.9977E-02	7.2133E-03	3.2407E-03	1.8615E-03	1.2842E-03
6.2245E-04	2.2919E-04	1.1022E-04	6.9060E-05	4.2004E-05

**DIRECTION FROM ENE

3.9123E-02	4.6825E-03	2.1444E-03	1.2507E-03	8.6473E-04
4.1947E-04	1.5640E-04	7.5879E-05	4.7826E-05	2.9296E-05

**DIRECTION FROM E

7.8258E-02	9.3430E-03	4.5721E-03	2.7869E-03	1.9736E-03
1.0006E-03	3.9891E-04	1.9907E-04	1.2750E-04	8.0744E-05

**DIRECTION FROM ESE

5.8279E-02	6.3558E-03	3.1299E-03	1.9208E-03	1.3658E-03
6.9710E-04	2.7963E-04	1.3929E-04	8.8992E-05	5.6707E-05

**DIRECTION FROM SE

8.2144E-02	9.6093E-03	4.6293E-03	2.7951E-03	1.9711E-03
9.9228E-04	3.9091E-04	1.9403E-04	1.2390E-04	7.8165E-05

**DIRECTION FROM SSE

1.5870E-01	1.7606E-02	8.6731E-03	5.3224E-03	3.7725E-03
1.9120E-03	7.6318E-04	3.8016E-04	2.4306E-04	1.5455E-04

**DIRECTION FROM S

1.4875E-01	1.7539E-02	8.1629E-03	4.8135E-03	3.3565E-03
1.6562E-03	6.3133E-04	3.0869E-04	1.9528E-04	1.2101E-04

**DIRECTION FROM SSW

6.4578E-02	7.7011E-03	3.4965E-03	2.0275E-03	1.3937E-03
6.6737E-04	2.4431E-04	1.1734E-04	7.3410E-05	4.4388E-05

**DIRECTION FROM SW

2.9774E-02	3.3623E-03	1.4787E-03	8.3944E-04	5.7044E-04
2.6723E-04	9.4030E-05	4.4308E-05	2.7440E-05	1.6339E-05

**DIRECTION FROM WSW

3.0405E-02	3.3398E-03	1.4651E-03	8.3184E-04	5.6533E-04
2.6515E-04	9.3689E-05	4.4461E-05	2.7731E-05	1.6668E-05

**DIRECTION FROM W

2.9980E-02	3.2559E-03	1.4576E-03	8.4000E-04	5.7379E-04
2.7081E-04	9.6926E-05	4.5932E-05	2.8482E-05	1.7123E-05

**DIRECTION FROM WNW

4.1255E-02	4.9128E-03	2.1796E-03	1.2410E-03	8.4853E-04
4.0309E-04	1.4409E-04	6.8146E-05	4.2187E-05	2.5147E-05

**DIRECTION FROM NW

3.4836E-02	3.8411E-03	1.7257E-03	9.9847E-04	6.7984E-04
3.1835E-04	1.1404E-04	5.4645E-05	3.4283E-05	2.0729E-05

**DIRECTION FROM NNW

3.3561E-02	3.7810E-03	1.6681E-03	9.4928E-04	6.4559E-04
3.0264E-04	1.0672E-04	5.0341E-05	3.1150E-05	1.8515E-05

DISTANCES USED IN CALCULATIONS

594.0	2416.0	4020.0	5630.0	7240.0
12067.0	24135.0	40225.0	56315.0	80500.0

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

PLUME PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.9E-02	1.1E-01
TEEN	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.9E-02	1.1E-01
CHILD	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.9E-02	1.1E-01
INFNT	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.9E-02	1.1E-01

GROUND PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.6E-03
TEEN	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.6E-03
CHILD	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.6E-03
INFNT	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	1.6E-03

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

ADULT	1.7E-04	1.6E-04	1.0E-05	1.8E-04	1.7E-04	1.7E-04	1.6E-04	0.0E+00
TEEN	1.9E-04	1.9E-04	1.6E-05	2.1E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
CHILD	2.9E-04	2.9E-04	3.8E-05	3.2E-04	3.0E-04	2.9E-04	2.9E-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

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

ADULT	2.4E-05	2.4E-05	9.6E-07	2.5E-05	2.4E-05	2.4E-05	2.4E-05	0.0E+00
TEEN	1.4E-05	1.4E-05	8.0E-07	1.5E-05	1.4E-05	1.4E-05	1.4E-05	0.0E+00
CHILD	1.7E-05	1.7E-05	1.5E-06	1.8E-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, 3556. METERS, WINDS TOWARD N

ADULT	2.2E-04	1.8E-04	3.5E-05	2.3E-04	2.0E-04	2.4E-04	1.9E-04	0.0E+00
TEEN	2.7E-04	2.4E-04	6.4E-05	3.3E-04	2.7E-04	3.2E-04	2.5E-04	0.0E+00
CHILD	4.0E-04	3.8E-04	1.5E-04	5.3E-04	4.3E-04	5.4E-04	3.9E-04	0.0E+00
INFNT	5.9E-04	5.7E-04	2.4E-04	8.6E-04	6.5E-04	9.8E-04	6.0E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD N

ADULT	4.7E-04	3.8E-04	1.0E-04	5.2E-04	4.2E-04	4.4E-04	3.9E-04	0.0E+00
TEEN	5.8E-04	4.9E-04	1.9E-04	7.5E-04	5.7E-04	5.9E-04	5.2E-04	0.0E+00
CHILD	8.3E-04	7.7E-04	4.6E-04	1.2E-03	9.1E-04	9.7E-04	8.2E-04	0.0E+00
INFNT	1.2E-03	1.2E-03	7.3E-04	2.0E-03	1.4E-03	1.7E-03	1.3E-03	0.0E+00

INHAL PATHWAY, DIST GP= 1, 659. METERS, WINDS TOWARD N

ADULT	3.9E-03	3.9E-03	9.1E-06	3.9E-03	3.9E-03	3.9E-03	3.9E-03	0.0E+00
TEEN	3.9E-03	3.9E-03	1.3E-05	3.9E-03	3.9E-03	3.9E-03	3.9E-03	0.0E+00
CHILD	3.4E-03	3.4E-03	1.7E-05	3.4E-03	3.4E-03	3.5E-03	3.5E-03	0.0E+00
INFNT	2.0E-03	2.0E-03	1.1E-05	2.0E-03	2.0E-03	2.0E-03	2.0E-03	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	6.1E-03	6.0E-03	1.5E-03	6.2E-03	6.0E-03	6.1E-03	6.0E-03	1.6E-03
TEEN	6.3E-03	6.2E-03	1.6E-03	6.5E-03	6.3E-03	6.4E-03	6.3E-03	1.6E-03
CHILD	6.3E-03	6.2E-03	2.0E-03	6.9E-03	6.5E-03	6.7E-03	6.3E-03	1.6E-03
INFNT	5.2E-03	5.1E-03	2.3E-03	6.3E-03	5.4E-03	6.0E-03	5.2E-03	1.6E-03

TOTALS

ADULT	2.4E-02	2.4E-02	1.9E-02	2.4E-02	2.4E-02	2.4E-02	2.5E-02	1.1E-01
TEEN	2.4E-02	2.4E-02	1.9E-02	2.4E-02	2.4E-02	2.4E-02	2.6E-02	1.1E-01
CHILD	2.4E-02	2.4E-02	2.0E-02	2.5E-02	2.4E-02	2.4E-02	2.6E-02	1.1E-01
INFNT	2.3E-02	2.3E-02	2.0E-02	2.4E-02	2.3E-02	2.4E-02	2.5E-02	1.1E-01

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

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

ADULT	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.1E-02	6.0E-02
TEEN	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.1E-02	6.0E-02
CHILD	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.1E-02	6.0E-02
INFNT	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02	1.1E-02	6.0E-02

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

ADULT	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.1E-03
TEEN	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.1E-03
CHILD	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.1E-03
INFNT	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	1.8E-03	2.1E-03

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

ADULT	2.9E-03	2.6E-03	4.0E-04	3.0E-03	2.7E-03	2.9E-03	2.5E-03	0.0E+00
TEEN	3.2E-03	3.0E-03	6.3E-04	3.7E-03	3.1E-03	3.2E-03	3.0E-03	0.0E+00
CHILD	4.7E-03	4.5E-03	1.5E-03	5.8E-03	4.9E-03	4.9E-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, 7725. METERS, WINDS TOWARD NNE

ADULT	1.2E-05	1.2E-05	8.4E-07	1.2E-05	1.2E-05	1.2E-05	1.1E-05	0.0E+00
TEEN	7.1E-06	7.1E-06	6.9E-07	7.7E-06	7.0E-06	7.4E-06	6.8E-06	0.0E+00
CHILD	8.4E-06	8.3E-06	1.3E-06	9.3E-06	8.5E-06	9.2E-06	8.2E-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, 3556. METERS, WINDS TOWARD NNE

ADULT	1.1E-04	9.0E-05	2.9E-05	1.3E-04	1.0E-04	2.0E-04	9.3E-05	0.0E+00
TEEN	1.4E-04	1.2E-04	5.2E-05	1.9E-04	1.4E-04	3.0E-04	1.2E-04	0.0E+00
CHILD	2.0E-04	1.8E-04	1.2E-04	3.0E-04	2.2E-04	5.4E-04	2.0E-04	0.0E+00
INFNT	2.9E-04	2.8E-04	2.0E-04	5.1E-04	3.4E-04	1.2E-03	3.0E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NNE

ADULT	2.6E-04	1.8E-04	8.5E-05	3.0E-04	2.2E-04	3.2E-04	1.9E-04	0.0E+00
TEEN	3.1E-04	2.4E-04	1.5E-04	4.4E-04	3.1E-04	4.5E-04	2.6E-04	0.0E+00
CHILD	4.2E-04	3.7E-04	3.7E-04	7.3E-04	4.9E-04	8.0E-04	4.1E-04	0.0E+00
INFNT	6.2E-04	5.7E-04	5.9E-04	1.3E-03	7.5E-04	1.6E-03	6.4E-04	0.0E+00

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

ADULT	1.9E-03	1.9E-03	5.4E-06	1.9E-03	1.9E-03	1.9E-03	1.9E-03	0.0E+00
TEEN	1.9E-03	1.9E-03	7.6E-06	1.9E-03	1.9E-03	2.0E-03	2.0E-03	0.0E+00
CHILD	1.7E-03	1.7E-03	1.0E-05	1.7E-03	1.7E-03	1.8E-03	1.7E-03	0.0E+00
INFNT	9.7E-04	9.7E-04	6.2E-06	9.8E-04	9.7E-04	1.0E-03	1.0E-03	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	7.0E-03	6.6E-03	2.3E-03	7.2E-03	6.7E-03	7.2E-03	6.6E-03	2.1E-03
TEEN	7.3E-03	7.1E-03	2.7E-03	8.0E-03	7.3E-03	7.7E-03	7.1E-03	2.1E-03
CHILD	8.8E-03	8.5E-03	3.8E-03	1.0E-02	9.1E-03	9.8E-03	8.7E-03	2.1E-03
INFNT	3.7E-03	3.6E-03	2.6E-03	4.6E-03	3.9E-03	5.6E-03	3.7E-03	2.1E-03

TOTALS

ADULT	1.7E-02	1.7E-02	1.3E-02	1.8E-02	1.7E-02	1.8E-02	1.8E-02	6.2E-02
TEEN	1.8E-02	1.8E-02	1.3E-02	1.9E-02	1.8E-02	1.8E-02	1.8E-02	6.2E-02
CHILD	1.9E-02	1.9E-02	1.4E-02	2.1E-02	2.0E-02	2.0E-02	2.0E-02	6.2E-02
INFNT	1.4E-02	1.4E-02	1.3E-02	1.5E-02	1.4E-02	1.6E-02	1.5E-02	6.2E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

PLUME PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE

ADULT	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.6E-03	9.9E-03
TEEN	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.6E-03	9.9E-03
CHILD	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.6E-03	9.9E-03
INFNT	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.6E-03	9.9E-03

GROUND PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE

ADULT	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04
TEEN	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04
CHILD	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04
INFNT	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	1.7E-04	2.0E-04

VEGET PATHWAY, DIST GP= 1, 1052. METERS, WINDS TOWARD NE

ADULT	7.0E-04	6.2E-04	1.0E-04	7.5E-04	6.6E-04	6.4E-04	6.3E-04	0.0E+00
TEEN	7.8E-04	7.1E-04	1.6E-04	9.1E-04	7.7E-04	7.2E-04	7.3E-04	0.0E+00
CHILD	1.1E-03	1.1E-03	3.8E-04	1.4E-03	1.2E-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, 7725. METERS, WINDS TOWARD NE

ADULT	4.1E-06	3.8E-06	3.2E-07	4.2E-06	3.9E-06	3.9E-06	3.8E-06	0.0E+00
TEEN	2.4E-06	2.3E-06	2.6E-07	2.6E-06	2.4E-06	2.3E-06	2.3E-06	0.0E+00
CHILD	2.8E-06	2.7E-06	4.8E-07	3.2E-06	2.9E-06	2.8E-06	2.8E-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, 3556. METERS, WINDS TOWARD NE

ADULT	4.1E-05	3.1E-05	1.1E-05	4.6E-05	3.6E-05	4.1E-05	3.3E-05	0.0E+00
TEEN	5.0E-05	4.1E-05	1.9E-05	6.7E-05	4.9E-05	5.7E-05	4.4E-05	0.0E+00
CHILD	7.1E-05	6.4E-05	4.7E-05	1.1E-04	7.9E-05	9.6E-05	6.9E-05	0.0E+00
INFNT	1.0E-04	9.7E-05	7.4E-05	1.9E-04	1.2E-04	1.8E-04	1.1E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD NE

ADULT	9.4E-05	6.4E-05	3.2E-05	1.1E-04	7.8E-05	7.5E-05	6.8E-05	0.0E+00
TEEN	1.1E-04	8.3E-05	5.8E-05	1.6E-04	1.1E-04	1.0E-04	9.3E-05	0.0E+00
CHILD	1.5E-04	1.3E-04	1.4E-04	2.7E-04	1.7E-04	1.7E-04	1.4E-04	0.0E+00
INFNT	2.2E-04	2.0E-04	2.2E-04	4.7E-04	2.7E-04	2.9E-04	2.3E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 943. METERS, WINDS TOWARD NE

ADULT	4.1E-04	4.0E-04	8.5E-07	4.1E-04	4.0E-04	4.1E-04	4.1E-04	0.0E+00
TEEN	4.1E-04	4.1E-04	1.2E-06	4.1E-04	4.1E-04	4.1E-04	4.1E-04	0.0E+00
CHILD	3.6E-04	3.6E-04	1.6E-06	3.6E-04	3.6E-04	3.6E-04	3.6E-04	0.0E+00
INFNT	2.1E-04	2.1E-04	9.7E-07	2.1E-04	2.1E-04	2.1E-04	2.1E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	1.4E-03	1.3E-03	3.2E-04	1.5E-03	1.4E-03	1.3E-03	1.3E-03	2.0E-04
TEEN	1.5E-03	1.4E-03	4.1E-04	1.7E-03	1.5E-03	1.5E-03	1.4E-03	2.0E-04
CHILD	1.9E-03	1.8E-03	7.4E-04	2.3E-03	2.0E-03	1.9E-03	1.9E-03	2.0E-04
INFNT	7.0E-04	6.7E-04	4.7E-04	1.0E-03	7.7E-04	8.5E-04	7.1E-04	2.0E-04

TOTALS

ADULT	2.9E-03	2.8E-03	1.8E-03	2.9E-03	2.8E-03	2.8E-03	2.9E-03	1.0E-02
TEEN	3.0E-03	2.9E-03	1.9E-03	3.2E-03	3.0E-03	2.9E-03	3.1E-03	1.0E-02
CHILD	3.4E-03	3.3E-03	2.2E-03	3.8E-03	3.5E-03	3.4E-03	3.5E-03	1.0E-02
INFNT	2.2E-03	2.1E-03	1.9E-03	2.5E-03	2.2E-03	2.3E-03	2.3E-03	1.0E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124 -

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

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

ADULT	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	5.5E-04	4.3E-03
TEEN	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	5.5E-04	4.3E-03
CHILD	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	5.5E-04	4.3E-03
INFNT	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	4.9E-04	5.5E-04	4.3E-03

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

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	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-04
CHILD	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-04
INFNT	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.1E-04	1.3E-04

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

ADULT	2.7E-04	2.3E-04	5.4E-05	3.0E-04	2.5E-04	2.4E-04	2.3E-04	0.0E+00
TEEN	3.0E-04	2.6E-04	8.5E-05	3.7E-04	2.9E-04	2.7E-04	2.7E-04	0.0E+00
CHILD	4.3E-04	4.0E-04	2.0E-04	5.8E-04	4.6E-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, 3862. METERS, WINDS TOWARD ENE

ADULT	1.2E-05	1.0E-05	1.6E-06	1.2E-05	1.1E-05	1.1E-05	1.0E-05	0.0E+00
TEEN	6.7E-06	6.2E-06	1.3E-06	7.8E-06	6.6E-06	6.5E-06	6.2E-06	0.0E+00
CHILD	7.6E-06	7.3E-06	2.4E-06	9.6E-06	8.0E-06	8.0E-06	7.5E-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, 3556. METERS, WINDS TOWARD ENE

ADULT	4.1E-05	2.7E-05	1.5E-05	4.8E-05	3.4E-05	4.9E-05	2.9E-05	0.0E+00
TEEN	4.9E-05	3.6E-05	2.7E-05	7.2E-05	4.8E-05	6.9E-05	4.0E-05	0.0E+00
CHILD	6.5E-05	5.6E-05	6.5E-05	1.2E-04	7.6E-05	1.2E-04	6.3E-05	0.0E+00
INFNT	9.3E-05	8.4E-05	1.0E-04	2.1E-04	1.2E-04	2.5E-04	9.7E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ENE

ADULT	9.8E-05	5.6E-05	4.5E-05	1.2E-04	7.6E-05	8.1E-05	6.2E-05	0.0E+00
TEEN	1.1E-04	7.3E-05	8.1E-05	1.8E-04	1.1E-04	1.1E-04	8.6E-05	0.0E+00
CHILD	1.4E-04	1.1E-04	1.9E-04	3.1E-04	1.8E-04	1.9E-04	1.3E-04	0.0E+00
INFNT	2.0E-04	1.7E-04	3.1E-04	5.5E-04	2.7E-04	3.7E-04	2.1E-04	0.0E+00

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

ADULT	1.4E-04	1.4E-04	3.7E-07	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00
TEEN	1.4E-04	1.4E-04	5.1E-07	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00
CHILD	1.2E-04	1.2E-04	6.9E-07	1.2E-04	1.2E-04	1.2E-04	1.2E-04	0.0E+00
INFNT	7.0E-05	7.0E-05	4.2E-07	7.0E-05	7.0E-05	7.1E-05	7.0E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	6.7E-04	5.8E-04	2.3E-04	7.3E-04	6.2E-04	6.3E-04	5.9E-04	1.3E-04
TEEN	7.2E-04	6.3E-04	3.1E-04	8.8E-04	7.1E-04	7.1E-04	6.6E-04	1.3E-04
CHILD	8.8E-04	8.1E-04	5.8E-04	1.3E-03	9.5E-04	9.8E-04	8.6E-04	1.3E-04
INFNT	4.8E-04	4.4E-04	5.3E-04	9.4E-04	5.7E-04	8.0E-04	4.9E-04	1.3E-04

TOTALS

ADULT	1.2E-03	1.1E-03	7.2E-04	1.2E-03	1.1E-03	1.1E-03	1.1E-03	4.4E-03
TEEN	1.2E-03	1.1E-03	8.0E-04	1.4E-03	1.2E-03	1.2E-03	1.2E-03	4.4E-03
CHILD	1.4E-03	1.3E-03	1.1E-03	1.7E-03	1.4E-03	1.5E-03	1.4E-03	4.4E-03
INFNT	9.7E-04	9.4E-04	1.0E-03	1.4E-03	1.1E-03	1.3E-03	1.0E-03	4.4E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

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

ADULT	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	6.1E-04	3.8E-03
TEEN	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	6.1E-04	3.8E-03
CHILD	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	6.1E-04	3.8E-03
INFNT	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	5.5E-04	6.1E-04	3.8E-03

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

ADULT	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	8.6E-05
TEEN	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	8.6E-05
CHILD	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	8.6E-05
INFNT	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	7.3E-05	8.6E-05

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

ADULT	3.2E-04	2.8E-04	5.1E-05	3.4E-04	3.0E-04	2.8E-04	2.8E-04	0.0E+00
TEEN	3.5E-04	3.2E-04	8.1E-05	4.2E-04	3.5E-04	3.2E-04	3.3E-04	0.0E+00
CHILD	5.1E-04	4.9E-04	1.9E-04	6.6E-04	5.4E-04	5.0E-04	5.1E-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, 6810. METERS, WINDS TOWARD E

ADULT	5.0E-06	4.6E-06	4.5E-07	5.2E-06	4.8E-06	4.7E-06	4.6E-06	0.0E+00
TEEN	2.9E-06	2.7E-06	3.7E-07	3.2E-06	2.9E-06	2.8E-06	2.8E-06	0.0E+00
CHILD	3.4E-06	3.3E-06	6.8E-07	4.0E-06	3.5E-06	3.4E-06	3.4E-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, 3556. METERS, WINDS TOWARD E

ADULT	4.1E-05	3.0E-05	1.2E-05	4.7E-05	3.5E-05	3.8E-05	3.1E-05	0.0E+00
TEEN	5.0E-05	3.9E-05	2.2E-05	6.9E-05	4.9E-05	5.3E-05	4.2E-05	0.0E+00
CHILD	6.9E-05	6.1E-05	5.3E-05	1.1E-04	7.8E-05	8.9E-05	6.7E-05	0.0E+00
INFNT	9.9E-05	9.2E-05	8.5E-05	1.9E-04	1.2E-04	1.6E-04	1.0E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD E

ADULT	9.6E-05	6.1E-05	3.7E-05	1.1E-04	7.8E-05	7.1E-05	6.6E-05	0.0E+00
TEEN	1.1E-04	7.9E-05	6.6E-05	1.7E-04	1.1E-04	9.5E-05	9.0E-05	0.0E+00
CHILD	1.5E-04	1.2E-04	1.6E-04	2.8E-04	1.7E-04	1.6E-04	1.4E-04	0.0E+00
INFNT	2.1E-04	1.9E-04	2.5E-04	5.0E-04	2.7E-04	2.7E-04	2.2E-04	0.0E+00

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

ADULT	1.5E-04	1.5E-04	2.9E-07	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
TEEN	1.5E-04	1.5E-04	4.1E-07	1.5E-04	1.5E-04	1.5E-04	1.5E-04	0.0E+00
CHILD	1.3E-04	1.3E-04	5.5E-07	1.3E-04	1.3E-04	1.4E-04	1.3E-04	0.0E+00
INFNT	7.7E-05	7.7E-05	3.4E-07	7.7E-05	7.7E-05	7.8E-05	7.7E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	6.9E-04	6.0E-04	1.7E-04	7.3E-04	6.4E-04	6.2E-04	6.1E-04	8.6E-05
TEEN	7.4E-04	6.6E-04	2.4E-04	8.9E-04	7.4E-04	7.0E-04	6.9E-04	8.6E-05
CHILD	9.4E-04	8.8E-04	4.8E-04	1.3E-03	1.0E-03	9.5E-04	9.2E-04	8.6E-05
INFNT	4.6E-04	4.3E-04	4.1E-04	8.4E-04	5.4E-04	5.8E-04	4.7E-04	8.6E-05

TOTALS

ADULT	1.2E-03	1.1E-03	7.3E-04	1.3E-03	1.2E-03	1.2E-03	1.2E-03	3.9E-03
TEEN	1.3E-03	1.2E-03	8.0E-04	1.4E-03	1.3E-03	1.3E-03	1.3E-03	3.9E-03
CHILD	1.5E-03	1.4E-03	1.0E-03	1.8E-03	1.6E-03	1.5E-03	1.5E-03	3.9E-03
INFNT	1.0E-03	9.8E-04	9.7E-04	1.4E-03	1.1E-03	1.1E-03	1.1E-03	3.9E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

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

ADULT	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	7.1E-04	6.1E-03
TEEN	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	7.1E-04	6.1E-03
CHILD	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	7.1E-04	6.1E-03
INFNT	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	6.3E-04	7.1E-04	6.1E-03

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

ADULT	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	1.0E-04
TEEN	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	1.0E-04
CHILD	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	1.0E-04
INFNT	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	8.9E-05	1.0E-04

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

ADULT	4.0E-04	3.5E-04	6.1E-05	4.3E-04	3.8E-04	3.6E-04	3.6E-04	0.0E+00
TEEN	4.4E-04	4.0E-04	9.7E-05	5.3E-04	4.4E-04	4.1E-04	4.2E-04	0.0E+00
CHILD	6.5E-04	6.2E-04	2.3E-04	8.3E-04	6.9E-04	6.3E-04	6.4E-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, 2434. METERS, WINDS TOWARD ESE

ADULT	3.0E-05	2.7E-05	2.9E-06	3.1E-05	2.9E-05	2.8E-05	2.8E-05	0.0E+00
TEEN	1.7E-05	1.6E-05	2.4E-06	2.0E-05	1.7E-05	1.7E-05	1.7E-05	0.0E+00
CHILD	2.0E-05	2.0E-05	4.5E-06	2.4E-05	2.1E-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

COW PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ESE

ADULT	4.8E-05	3.5E-05	1.4E-05	5.5E-05	4.1E-05	4.3E-05	3.7E-05	0.0E+00
TEEN	5.8E-05	4.6E-05	2.5E-05	8.0E-05	5.7E-05	5.8E-05	5.0E-05	0.0E+00
CHILD	8.1E-05	7.2E-05	6.0E-05	1.3E-04	9.1E-05	9.7E-05	7.8E-05	0.0E+00
INFNT	1.2E-04	1.1E-04	9.5E-05	2.2E-04	1.4E-04	1.7E-04	1.2E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD ESE

ADULT	1.1E-04	7.2E-05	4.1E-05	1.3E-04	9.1E-05	8.1E-05	7.8E-05	0.0E+00
TEEN	1.3E-04	9.4E-05	7.4E-05	2.0E-04	1.3E-04	1.1E-04	1.1E-04	0.0E+00
CHILD	1.7E-04	1.5E-04	1.8E-04	3.2E-04	2.0E-04	1.8E-04	1.7E-04	0.0E+00
INFNT	2.5E-04	2.2E-04	2.8E-04	5.7E-04	3.1E-04	3.0E-04	2.6E-04	0.0E+00

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

ADULT	1.9E-04	1.9E-04	4.6E-07	1.9E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
TEEN	1.9E-04	1.9E-04	6.4E-07	1.9E-04	1.9E-04	1.9E-04	1.9E-04	0.0E+00
CHILD	1.7E-04	1.7E-04	8.6E-07	1.7E-04	1.7E-04	1.7E-04	1.7E-04	0.0E+00
INFNT	9.7E-05	9.7E-05	5.2E-07	9.8E-05	9.8E-05	9.8E-05	9.8E-05	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	8.7E-04	7.6E-04	2.1E-04	9.3E-04	8.2E-04	7.9E-04	7.8E-04	1.0E-04
TEEN	9.3E-04	8.4E-04	2.9E-04	1.1E-03	9.2E-04	8.7E-04	8.7E-04	1.0E-04
CHILD	1.2E-03	1.1E-03	5.6E-04	1.6E-03	1.3E-03	1.2E-03	1.2E-03	1.0E-04
INFNT	5.5E-04	5.2E-04	4.7E-04	9.8E-04	6.4E-04	6.6E-04	5.7E-04	1.0E-04

TOTALS

ADULT	1.5E-03	1.4E-03	8.4E-04	1.6E-03	1.4E-03	1.4E-03	1.5E-03	6.2E-03
TEEN	1.6E-03	1.5E-03	9.1E-04	1.7E-03	1.6E-03	1.5E-03	1.6E-03	6.2E-03
CHILD	1.8E-03	1.7E-03	1.2E-03	2.2E-03	1.9E-03	1.8E-03	1.9E-03	6.2E-03
INFNT	1.2E-03	1.1E-03	1.1E-03	1.6E-03	1.3E-03	1.3E-03	1.3E-03	6.2E-03

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

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

ADULT	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.3E-03	1.4E-02
TEEN	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.3E-03	1.4E-02
CHILD	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.3E-03	1.4E-02
INFNT	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.3E-03	1.4E-02

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

ADULT	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	4.1E-04
TEEN	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	4.1E-04
CHILD	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	4.1E-04
INFNT	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	3.5E-04	4.1E-04

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

ADULT	1.1E-03	9.3E-04	2.1E-04	1.2E-03	9.9E-04	1.0E-03	9.2E-04	0.0E+00
TEEN	1.2E-03	1.1E-03	3.3E-04	1.5E-03	1.2E-03	1.1E-03	1.1E-03	0.0E+00
CHILD	1.7E-03	1.6E-03	7.9E-04	2.3E-03	1.8E-03	1.8E-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

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

ADULT	1.2E-05	1.2E-05	1.5E-06	1.3E-05	1.2E-05	1.2E-05	1.1E-05	0.0E+00
TEEN	7.1E-06	6.9E-06	1.3E-06	8.2E-06	7.0E-06	7.4E-06	6.7E-06	0.0E+00
CHILD	8.2E-06	8.0E-06	2.4E-06	1.0E-05	8.5E-06	9.2E-06	8.0E-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

COW PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SE

ADULT	5.3E-05	3.6E-05	1.8E-05	6.1E-05	4.4E-05	8.6E-05	3.8E-05	0.0E+00
TEEN	6.2E-05	4.7E-05	3.3E-05	9.2E-05	6.2E-05	1.3E-04	5.2E-05	0.0E+00
CHILD	8.5E-05	7.3E-05	8.0E-05	1.5E-04	9.9E-05	2.3E-04	8.1E-05	0.0E+00
INFNT	1.2E-04	1.1E-04	1.3E-04	2.6E-04	1.5E-04	5.0E-04	1.3E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SE

ADULT	1.2E-04	7.3E-05	5.5E-05	1.5E-04	9.8E-05	1.3E-04	8.0E-05	0.0E+00
TEEN	1.4E-04	9.5E-05	1.0E-04	2.3E-04	1.4E-04	1.9E-04	1.1E-04	0.0E+00
CHILD	1.8E-04	1.5E-04	2.4E-04	3.8E-04	2.2E-04	3.4E-04	1.7E-04	0.0E+00
INFNT	2.6E-04	2.3E-04	3.8E-04	6.8E-04	3.5E-04	6.9E-04	2.7E-04	0.0E+00

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

ADULT	3.5E-04	3.5E-04	1.0E-06	3.5E-04	3.5E-04	3.6E-04	3.6E-04	0.0E+00
TEEN	3.5E-04	3.5E-04	1.5E-06	3.5E-04	3.5E-04	3.6E-04	3.6E-04	0.0E+00
CHILD	3.1E-04	3.1E-04	2.0E-06	3.1E-04	3.1E-04	3.2E-04	3.2E-04	0.0E+00
INFNT	1.8E-04	1.8E-04	1.2E-06	1.8E-04	1.8E-04	1.9E-04	1.8E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.0E-03	1.8E-03	6.4E-04	2.1E-03	1.8E-03	2.0E-03	1.8E-03	4.1E-04
TEEN	2.1E-03	1.9E-03	8.2E-04	2.5E-03	2.1E-03	2.2E-03	2.0E-03	4.1E-04
CHILD	2.6E-03	2.5E-03	1.5E-03	3.5E-03	2.8E-03	3.0E-03	2.6E-03	4.1E-04
INFNT	9.1E-04	8.7E-04	8.6E-04	1.5E-03	1.0E-03	1.7E-03	9.3E-04	4.1E-04

TOTALS

ADULT	4.1E-03	3.8E-03	2.7E-03	4.2E-03	3.9E-03	4.1E-03	4.0E-03	1.4E-02
TEEN	4.2E-03	4.0E-03	2.9E-03	4.6E-03	4.2E-03	4.3E-03	4.2E-03	1.4E-02
CHILD	4.7E-03	4.6E-03	3.5E-03	5.6E-03	4.9E-03	5.1E-03	4.9E-03	1.4E-02
INFNT	3.0E-03	2.9E-03	2.9E-03	3.6E-03	3.1E-03	3.8E-03	3.2E-03	1.4E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

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

ADULT	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.4E-03	1.8E-02
TEEN	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.4E-03	1.8E-02
CHILD	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.4E-03	1.8E-02
INFNT	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.4E-03	1.8E-02

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

ADULT	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	4.0E-04
TEEN	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	4.0E-04
CHILD	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	4.0E-04
INFNT	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	3.4E-04	4.0E-04

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

ADULT	1.0E-03	8.6E-04	2.0E-04	1.1E-03	9.1E-04	1.1E-03	8.5E-04	0.0E+00
TEEN	1.1E-03	9.8E-04	3.2E-04	1.4E-03	1.1E-03	1.2E-03	9.9E-04	0.0E+00
CHILD	1.6E-03	1.5E-03	7.6E-04	2.2E-03	1.7E-03	1.8E-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, 1093. METERS, WINDS TOWARD SSE

ADULT	1.4E-04	1.3E-04	2.0E-05	1.5E-04	1.3E-04	1.5E-04	1.2E-04	0.0E+00
TEEN	7.9E-05	7.8E-05	1.6E-05	9.3E-05	7.8E-05	9.3E-05	7.3E-05	0.0E+00
CHILD	9.1E-05	8.9E-05	3.0E-05	1.1E-04	9.4E-05	1.2E-04	8.8E-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, 3556. METERS, WINDS TOWARD SSE

ADULT	6.6E-05	4.4E-05	2.4E-05	7.7E-05	5.5E-05	1.7E-04	4.7E-05	0.0E+00
TEEN	7.8E-05	5.8E-05	4.4E-05	1.2E-04	7.8E-05	2.6E-04	6.4E-05	0.0E+00
CHILD	1.1E-04	9.0E-05	1.1E-04	1.9E-04	1.2E-04	5.0E-04	1.0E-04	0.0E+00
INFNT	1.5E-04	1.4E-04	1.7E-04	3.4E-04	1.9E-04	1.1E-03	1.6E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSE

ADULT	1.6E-04	9.0E-05	7.3E-05	1.9E-04	1.2E-04	2.4E-04	1.0E-04	0.0E+00
TEEN	1.8E-04	1.2E-04	1.3E-04	2.9E-04	1.8E-04	3.6E-04	1.4E-04	0.0E+00
CHILD	2.3E-04	1.8E-04	3.2E-04	4.9E-04	2.8E-04	6.7E-04	2.2E-04	0.0E+00
INFNT	3.2E-04	2.8E-04	5.1E-04	8.8E-04	4.4E-04	1.5E-03	3.4E-04	0.0E+00

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

ADULT	2.8E-04	2.8E-04	1.0E-06	2.8E-04	2.8E-04	2.9E-04	2.8E-04	0.0E+00
TEEN	2.8E-04	2.8E-04	1.4E-06	2.8E-04	2.8E-04	2.9E-04	2.8E-04	0.0E+00
CHILD	2.5E-04	2.5E-04	1.9E-06	2.5E-04	2.5E-04	2.6E-04	2.5E-04	0.0E+00
INFNT	1.4E-04	1.4E-04	1.2E-06	1.4E-04	1.4E-04	1.6E-04	1.5E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.0E-03	1.7E-03	6.6E-04	2.1E-03	1.8E-03	2.3E-03	1.7E-03	4.0E-04
TEEN	2.0E-03	1.9E-03	8.5E-04	2.5E-03	2.0E-03	2.5E-03	1.9E-03	4.0E-04
CHILD	2.6E-03	2.4E-03	1.6E-03	3.6E-03	2.8E-03	3.7E-03	2.5E-03	4.0E-04
INFNT	9.5E-04	9.0E-04	1.0E-03	1.7E-03	1.1E-03	3.1E-03	9.8E-04	4.0E-04

TOTALS

ADULT	5.1E-03	4.8E-03	3.7E-03	5.2E-03	4.9E-03	5.4E-03	5.1E-03	1.8E-02
TEEN	5.1E-03	4.9E-03	3.9E-03	5.6E-03	5.1E-03	5.6E-03	5.2E-03	1.8E-02
CHILD	5.7E-03	5.5E-03	4.6E-03	6.6E-03	5.9E-03	6.8E-03	5.9E-03	1.8E-02
INFNT	4.0E-03	4.0E-03	4.1E-03	4.8E-03	4.2E-03	6.2E-03	4.3E-03	1.8E-02

INDIVIDUAL DOSES(MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

PLUME PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.7E-03	3.0E-02
TEEN	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.7E-03	3.0E-02
CHILD	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.7E-03	3.0E-02
INFNT	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.7E-03	3.0E-02

GROUND PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	3.3E-04
TEEN	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	3.3E-04
CHILD	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	3.3E-04
INFNT	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	2.8E-04	3.3E-04

VEGET PATHWAY, DIST GP= 1, 863. METERS, WINDS TOWARD S

ADULT	1.4E-03	1.1E-03	2.5E-04	1.5E-03	1.3E-03	1.4E-03	1.2E-03	0.0E+00
TEEN	1.5E-03	1.3E-03	4.0E-04	1.8E-03	1.5E-03	1.5E-03	1.4E-03	0.0E+00
CHILD	2.1E-03	2.0E-03	9.4E-04	2.9E-03	2.3E-03	2.4E-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

MEAT PATHWAY, DIST GP= 1, 6115. METERS, WINDS TOWARD S

ADULT	8.1E-06	7.3E-06	8.9E-07	8.5E-06	7.7E-06	8.5E-06	7.4E-06	0.0E+00
TEEN	4.7E-06	4.3E-06	7.4E-07	5.3E-06	4.7E-06	5.2E-06	4.5E-06	0.0E+00
CHILD	5.4E-06	5.2E-06	1.4E-06	6.5E-06	5.7E-06	6.6E-06	5.4E-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, 3556. METERS, WINDS TOWARD S

ADULT	6.0E-05	4.2E-05	2.0E-05	7.0E-05	5.1E-05	1.4E-04	4.5E-05	0.0E+00
TEEN	7.2E-05	5.5E-05	3.7E-05	1.0E-04	7.2E-05	2.0E-04	6.0E-05	0.0E+00
CHILD	9.9E-05	8.6E-05	8.8E-05	1.7E-04	1.1E-04	3.8E-04	9.5E-05	0.0E+00
INFNT	1.4E-04	1.3E-04	1.4E-04	3.0E-04	1.8E-04	8.4E-04	1.5E-04	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD S

ADULT	1.4E-04	8.6E-05	6.0E-05	1.7E-04	1.1E-04	2.0E-04	9.4E-05	0.0E+00
TEEN	1.6E-04	1.1E-04	1.1E-04	2.6E-04	1.6E-04	2.9E-04	1.3E-04	0.0E+00
CHILD	2.1E-04	1.7E-04	2.6E-04	4.3E-04	2.6E-04	5.3E-04	2.0E-04	0.0E+00
INFNT	3.0E-04	2.7E-04	4.2E-04	7.6E-04	4.0E-04	1.1E-03	3.2E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 1026. METERS, WINDS TOWARD S

ADULT	4.8E-04	4.8E-04	1.4E-06	4.8E-04	4.8E-04	4.9E-04	4.8E-04	0.0E+00
TEEN	4.8E-04	4.8E-04	2.0E-06	4.9E-04	4.8E-04	5.0E-04	4.8E-04	0.0E+00
CHILD	4.3E-04	4.3E-04	2.7E-06	4.3E-04	4.3E-04	4.5E-04	4.3E-04	0.0E+00
INFNT	2.5E-04	2.5E-04	1.6E-06	2.5E-04	2.5E-04	2.6E-04	2.5E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	2.3E-03	2.0E-03	6.1E-04	2.5E-03	2.2E-03	2.5E-03	2.1E-03	3.3E-04
TEEN	2.5E-03	2.2E-03	8.3E-04	3.0E-03	2.5E-03	2.8E-03	2.3E-03	3.3E-04
CHILD	3.2E-03	3.0E-03	1.6E-03	4.2E-03	3.4E-03	4.0E-03	3.1E-03	3.3E-04
INFNT	9.7E-04	9.2E-04	8.4E-04	1.6E-03	1.1E-03	2.5E-03	9.9E-04	3.3E-04

TOTALS

ADULT	7.6E-03	7.3E-03	5.9E-03	7.7E-03	7.4E-03	7.8E-03	7.8E-03	3.0E-02
TEEN	7.8E-03	7.5E-03	6.1E-03	8.2E-03	7.7E-03	8.1E-03	8.0E-03	3.0E-02
CHILD	8.4E-03	8.3E-03	6.8E-03	9.5E-03	8.6E-03	9.3E-03	8.8E-03	3.0E-02
INFNT	6.2E-03	6.2E-03	6.1E-03	6.9E-03	6.4E-03	7.8E-03	6.7E-03	3.0E-02

INDIVIDUAL DOSES (MREM) DUE TO GASEOUS EFFLUENT
FOR DATES 9310 1 1 THRU 93123124

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

PLUME PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW

ADULT	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.3E-03	1.1E-03
TEEN	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.3E-03	1.1E-03
CHILD	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.3E-03	1.1E-03
INFNT	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.3E-03	1.1E-02

GROUND PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW

ADULT	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	9.5E-05
TEEN	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	9.5E-05
CHILD	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	9.5E-05
INFNT	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	8.2E-05	9.5E-05

VEGET PATHWAY, DIST GP= 1, 770. METERS, WINDS TOWARD SSW

ADULT	7.4E-04	6.8E-04	7.8E-05	7.8E-04	7.1E-04	7.2E-04	6.8E-04	0.0E+00
TEEN	8.3E-04	7.7E-04	1.2E-04	9.3E-04	8.3E-04	8.1E-04	7.9E-04	0.0E+00
CHILD	1.2E-03	1.2E-03	2.9E-04	1.5E-03	1.3E-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 SSW

ADULT	2.9E-06	2.8E-06	1.4E-07	3.0E-06	2.8E-06	2.9E-06	2.8E-06	0.0E+00
TEEN	1.7E-06	1.6E-06	1.1E-07	1.8E-06	1.7E-06	1.7E-06	1.7E-06	0.0E+00
CHILD	2.0E-06	2.0E-06	2.1E-07	2.2E-06	2.1E-06	2.1E-06	2.0E-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

COW PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSW

ADULT	2.7E-05	2.2E-05	5.1E-06	3.0E-05	2.5E-05	3.4E-05	2.3E-05	0.0E+00
TEEN	3.4E-05	2.9E-05	9.1E-06	4.2E-05	3.3E-05	4.7E-05	3.1E-05	0.0E+00
CHILD	4.9E-05	4.6E-05	2.2E-05	6.8E-05	5.3E-05	8.2E-05	4.8E-05	0.0E+00
INFNT	7.3E-05	7.0E-05	3.5E-05	1.1E-04	8.1E-05	1.6E-04	7.4E-05	0.0E+00

GOAT PATHWAY, DIST GP= 1, 3556. METERS, WINDS TOWARD SSW

ADULT	6.0E-05	4.6E-05	1.5E-05	6.7E-05	5.3E-05	5.9E-05	4.8E-05	0.0E+00
TEEN	7.3E-05	6.0E-05	2.7E-05	9.7E-05	7.2E-05	8.1E-05	6.4E-05	0.0E+00
CHILD	1.0E-04	9.4E-05	6.5E-05	1.6E-04	1.1E-04	1.4E-04	1.0E-04	0.0E+00
INFNT	1.5E-04	1.4E-04	1.0E-04	2.7E-04	1.8E-04	2.5E-04	1.6E-04	0.0E+00

INHAL PATHWAY, DIST GP= 1, 942. METERS, WINDS TOWARD SSW

ADULT	2.8E-04	2.7E-04	7.7E-07	2.8E-04	2.7E-04	2.8E-04	2.7E-04	0.0E+00
TEEN	2.8E-04	2.8E-04	1.1E-06	2.8E-04	2.8E-04	2.8E-04	2.8E-04	0.0E+00
CHILD	2.4E-04	2.4E-04	1.4E-06	2.5E-04	2.4E-04	2.5E-04	2.4E-04	0.0E+00
INFNT	1.4E-04	1.4E-04	8.8E-07	1.4E-04	1.4E-04	1.4E-04	1.4E-04	0.0E+00

SUBTOTALS (NO PLUME)

ADULT	1.2E-03	1.1E-03	1.8E-04	1.2E-03	1.1E-03	1.2E-03	1.1E-03	9.5E-05
TEEN	1.3E-03	1.2E-03	2.4E-04	1.4E-03	1.3E-03	1.3E-03	1.2E-03	9.5E-05
CHILD	1.7E-03	1.7E-03	4.6E-04	2.0E-03	1.8E-03	1.8E-03	1.7E-03	9.5E-05
INFNT	4.5E-04	4.3E-04	2.2E-04	6.0E-04	4.8E-04	6.3E-04	4.5E-04	9.5E-05

TOTALS

ADULT	2.3E-03	2.3E-03	1.3E-03	2.4E-03	2.3E-03	2.3E-03	2.4E-03	1.1E-02
TEEN	2.4E-03	2.4E-03	1.4E-03	2.6E-03	2.4E-03	2.4E-03	2.6E-03	1.1E-02
CHILD	2.9E-03	2.8E-03	1.6E-03	3.2E-03	2.9E-03	2.9E-03	3.0E-03	1.1E-02
INFNT	1.6E-03	1.6E-03	1.4E-03	1.8E-03	1.6E-03	1.8E-03	1.8E-03	1.1E-02

APPENDIX 2.1

Summary of Hourly Meteorological Data
First Quarter, 1993

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93010101-93033124
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	2	15	17	2	0	0	36
NNE	0	5	16	3	0	0	24
NE	0	7	19	1	0	0	27
ENE	0	8	3	3	0	0	14
E	1	10	3	4	0	0	18
ESE	0	10	10	0	0	0	20
SE	1	11	7	1	0	0	20
SSE	0	3	8	2	0	0	13
S	0	4	11	0	0	0	15
SSW	0	3	2	0	0	0	5
SW	0	3	2	0	0	0	5
WSW	0	12	17	6	0	0	35
W	1	21	13	2	0	0	37
WNW	0	8	18	0	0	0	26
NW	0	10	9	0	0	0	19
NNW	0	27	9	0	0	0	36
TOTAL	5	157	164	24	0	0	350

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 0

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93010101-93033124
 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	9	2	3	0	0	15
NNE	2	6	2	0	0	0	10
NE	0	6	7	0	0	0	13
ENE	4	9	5	5	0	0	23
E	0	8	2	0	0	0	10
ESE	1	3	1	0	0	0	5
SE	1	7	3	0	0	0	11
SSE	3	5	1	0	0	0	9
S	0	7	5	2	0	0	14
SSW	1	1	1	0	0	0	3
SW	1	2	0	2	0	0	5
WSW	2	11	7	0	0	0	20
W	1	7	12	1	0	0	21
WNW	4	7	13	0	0	0	24
NW	4	11	6	0	0	0	21
NNW	0	14	0	0	0	0	14
TOTAL	25	113	67	13	0	0	218
PERIODS OF CALM(HOURS):	0						
VARIABLE DIRECTION	0						
HOURS OF MISSING DATA:	0						

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93010101-93033124
 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	5	12	8	3	0	0	28
NNE	4	2	4	1	0	0	11
NE	4	6	19	3	0	0	32
ENE	3	19	16	7	0	0	45
E	2	8	14	3	0	0	27
ESE	5	7	6	0	0	0	18
SE	3	8	6	0	0	0	17
SSE	3	2	2	0	0	0	7
S	1	4	7	1	0	0	13
SSW	3	5	1	5	0	0	14
SW	5	8	2	0	0	0	15
WSW	1	8	7	1	0	0	17
WNW	2	14	20	1	0	0	37
NW	1	13	28	1	0	0	43
NNW	7	10	9	0	0	0	26
	8	16	11	0	0	0	35
TOTAL	57	142	160	26	0	0	385

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 0

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93010101-93033124
 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	20	10	6	0	0	44
NNE	5	18	8	2	0	0	33
NE	10	10	16	2	0	0	38
ENE	6	17	27	22	0	0	72
E	6	23	23	3	0	0	55
ESE	9	26	24	0	0	0	59
SE	9	20	10	0	0	0	39
SSE	11	6	10	2	0	0	29
S	5	17	16	8	0	0	46
SSW	2	20	29	17	0	0	68
SW	3	16	23	7	0	0	49
WSW	4	26	27	22	0	0	79
W	6	29	32	7	0	0	74
WNW	7	19	24	0	0	0	50
NW	7	26	21	0	0	0	54
NNW	11	33	16	2	0	0	62
TOTAL	109	326	316	100	0	0	851

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 0

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 93010101-93033124

STABILITY CLASS: E 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	5	1	0	0	0	0	6
NNE	3	2	0	0	0	0	5
NE	4	6	0	0	0	0	10
ENE	9	14	1	0	0	0	24
E	8	11	0	0	0	0	19
ESE	10	7	1	0	0	0	18
SE	8	6	0	0	0	0	14
SSE	8	12	0	0	0	0	20
S	8	21	5	0	0	0	34
SSW	7	10	0	0	0	0	17
SW	0	7	1	0	0	0	8
WSW	3	8	1	0	0	0	12
W	2	0	0	0	0	0	2
NW	5	0	0	0	0	0	5
NNW	2	0	0	0	0	0	2
	4	3	0	0	0	0	7
<hr/>							
TOTAL	86	108	9	0	0	0	203

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93010101-93033124
 STABILITY CLASS: F 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	2	0	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	4	1	0	0	0	0	5
E	3	4	0	0	0	0	7
ESE	6	2	0	0	0	0	8
SE	1	1	0	0	0	0	2
SSE	1	6	0	0	0	0	7
S	8	16	0	0	0	0	24
SSW	3	5	0	0	0	0	8
SW	1	2	0	0	0	0	3
WSW	1	0	0	0	0	0	1
W	1	0	0	0	0	0	1
WNW	2	0	0	0	0	0	2
NW	1	0	0	0	0	0	1
NNW	6	0	0	0	0	0	6
TOTAL	41	37	0	0	0	0	78

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 0

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 93010101-93033124

STABILITY CLASS: G 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	2	0	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	1	1	0	0	0	0	2
ENE	3	0	0	0	0	0	3
E	8	3	0	0	0	0	11
ESE	5	1	0	0	0	0	6
SE	7	1	0	0	0	0	8
SSE	8	2	0	0	0	0	10
S	3	8	0	0	0	0	11
SSW	2	4	0	0	0	0	6
SW	2	0	0	0	0	0	2
WSW	1	1	0	0	0	0	2
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	3	0	0	0	0	0	3
TOTAL	54	21	0	0	0	0	75

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 0

Joint Frequency Tables
1st Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93010101-93033124
 STABILITY CLASS: ALL 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	25	57	37	14	0	0	133
NNE	16	33	30	6	0	0	85
NE	19	36	61	6	0	0	122
ENE	29	68	52	37	0	0	186
E	28	67	42	10	0	0	147
ESE	36	56	42	0	0	0	134
SE	30	54	26	1	0	0	111
SSE	34	36	21	4	0	0	95
S	25	77	44	11	0	0	157
SSW	18	48	33	22	0	0	121
SW	12	38	28	9	0	0	87
WSW	12	66	59	29	0	0	166
W	16	71	77	11	0	0	175
WNW	21	47	83	1	0	0	152
NW	24	57	45	0	0	0	126
NNW	32	93	36	2	0	0	163
TOTAL	377	904	716	163	0	0	2160

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 0

APPENDIX 2.2

Summary of Hourly Data Meteorological Data
Second Quarter, 1993

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 93040101-93063024

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	2	42	36	0	0	0	80
NNE	0	2	2	0	0	0	4
NE	1	5	1	0	0	0	7
ENE	1	5	3	0	0	0	9
E	0	6	3	0	0	0	9
ESE	0	13	7	2	0	0	22
SE	0	13	10	0	0	0	23
SSE	1	19	18	0	0	0	38
S	1	8	8	0	0	0	17
SSW	0	3	5	1	1	0	10
SW	1	7	22	1	0	0	31
WSW	0	19	22	4	0	0	45
W	0	19	6	0	0	0	25
NW	2	40	5	0	0	0	47
NNW	4	34	4	0	0	0	42
	4	54	21	0	0	0	79
TOTAL	17	289	173	8	1	0	488

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93040101-93063024
 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	0	9	10	0	0	0	19
NNE	0	3	14	0	0	0	17
NE	0	0	2	0	0	0	2
ENE	0	5	1	0	0	0	6
E	2	2	0	0	0	0	4
ESE	0	4	2	0	0	0	6
SE	0	6	1	0	0	0	7
SSE	2	6	4	0	0	0	12
S	1	5	2	2	0	0	10
SSW	0	3	2	2	0	0	7
SW	0	4	9	0	0	0	13
WSW	0	7	5	1	0	0	13
W	1	5	1	0	0	0	7
WNW	0	3	1	0	0	0	4
NW	2	3	0	0	0	0	5
NNW	4	5	1	0	0	0	10
TOTAL	12	70	55	5	0	0	142

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 93040101-93063024

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	16	5	3	0	0	25
NNE	0	0	1	0	0	0	1
NE	1	2	4	1	0	0	8
ENE	2	2	2	1	0	0	7
E	1	7	4	0	0	0	12
ESE	3	1	1	0	0	0	5
SE	0	8	4	0	0	0	12
SSE	3	5	2	0	0	0	10
S	0	7	6	0	0	0	13
SSW	0	2	5	3	0	0	10
SW	1	3	7	1	0	0	12
WSW	2	8	2	1	0	0	13
WNW	2	3	4	0	0	0	9
NW	2	4	0	0	0	0	6
NNW	0	5	0	0	0	0	5
	1	8	4	0	0	0	13
TOTAL	19	81	51	10	0	0	161

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93040101-93063024
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	7	34	21	1	0	0	63
NNE	7	11	11	1	0	0	30
NE	8	11	2	0	0	0	21
ENE	5	10	3	0	0	0	18
E	8	6	11	0	0	0	25
ESE	7	27	19	0	0	0	53
SE	9	38	20	1	0	0	68
SSE	13	26	18	3	0	0	60
S	7	32	30	4	0	0	73
SSW	4	17	18	10	0	0	49
SW	8	13	23	2	0	0	46
WSW	5	9	15	3	0	0	32
W	5	23	7	0	0	0	35
WNW	9	13	2	0	0	0	24
NW	6	7	1	0	0	0	14
NNW	7	17	7	0	0	0	31
TOTAL	115	294	208	25	0	0	642

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93040101-93063024
STABILITY CLASS: E 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	9	0	0	0	0	21
NNE	6	6	0	0	0	0	12
NE	12	10	0	0	0	0	22
ENE	10	11	0	0	0	0	21
E	17	13	2	0	0	0	32
ESE	24	34	0	0	0	0	58
SE	14	34	4	0	0	0	52
SSE	14	13	3	0	0	0	30
S	15	27	6	0	0	0	48
SSW	3	17	5	0	0	0	25
SW	8	20	10	0	0	0	38
WSW	5	19	16	0	0	0	40
W	8	5	4	0	0	0	17
NW	8	7	1	0	0	0	16
NW	12	3	0	0	0	0	15
NNW	11	3	0	0	0	0	14
TOTAL	179	231	51	0	0	0	461

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93040101-93063024
STABILITY CLASS: F 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	2	0	0	0	0	0	2
NNE	5	0	0	0	0	0	5
NE	3	0	0	0	0	0	3
ENE	9	5	0	0	0	0	14
E	15	5	0	0	0	0	20
ESE	12	3	0	0	0	0	15
SE	5	3	0	0	0	0	8
SSE	8	1	0	0	0	0	9
S	8	9	0	0	0	0	17
SSW	5	4	0	0	0	0	9
SW	13	3	0	0	0	0	16
WSW	3	2	0	0	0	0	5
W	7	2	0	0	0	0	9
WNW	2	2	0	0	0	0	4
NW	6	0	0	0	0	0	6
NNW	4	0	0	0	0	0	4
TOTAL	107	39	0	0	0	0	146

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93040101-93063024
 STABILITY CLASS: G 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	2	0	0	0	0	0	2
NNE	2	0	0	0	0	0	2
NE	3	0	0	0	0	0	3
ENE	8	1	0	0	0	0	9
E	10	5	0	0	0	0	15
ESE	12	0	0	0	0	0	12
SE	13	0	0	0	0	0	13
SSE	16	0	0	0	0	0	16
S	20	1	0	0	0	0	21
SSW	10	0	0	0	0	0	10
SW	5	2	0	0	0	0	7
WSW	0	4	0	0	0	0	4
W	1	2	0	0	0	0	3
WNW	1	0	0	0	0	0	1
NW	2	0	0	0	0	0	2
NNW	4	2	0	0	0	0	6
TOTAL	109	17	0	0	0	0	126

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 18

Joint Frequency Tables
2nd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93040101-93063024
STABILITY CLASS: ALL 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	26	110	72	4	0	0	212
NNE	20	22	28	1	0	0	71
NE	28	28	9	1	0	0	66
ENE	35	39	9	1	0	0	84
E	53	44	20	0	0	0	117
ESE	58	82	29	2	0	0	171
SE	41	102	39	1	0	0	183
SSE	57	70	45	3	0	0	175
S	52	89	52	6	0	0	199
SSW	22	46	35	16	1	0	120
SW	36	52	71	4	0	0	163
WSW	15	68	60	9	0	0	152
W	24	59	22	0	0	0	105
WNW	24	69	9	0	0	0	102
NW	32	52	5	0	0	0	89
NNW	35	89	33	0	0	0	157
TOTAL	558	1021	538	48	1	0	2166

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 18

APPENDIX 2.3

Summary of Hourly Meteorological Data
Third Quarter, 1993

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 93070101-93093024

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	29	6	0	0	0	39
NNE	0	3	0	0	0	0	3
NE	1	1	0	0	0	0	2
ENE	1	3	3	0	0	0	7
E	0	8	2	0	0	0	10
ESE	0	4	1	0	0	0	5
SE	1	7	0	0	0	0	8
SSE	1	8	0	0	0	0	9
S	2	14	6	1	0	0	23
SSW	2	8	9	2	0	0	21
SW	3	16	9	2	0	0	30
WSW	1	22	4	0	0	0	27
W	1	23	3	0	0	0	27
WNW	2	28	5	0	0	0	35
NW	2	17	0	0	0	0	19
NNW	2	15	0	0	0	0	17
TOTAL	23	206	48	5	0	0	282

PERIODS OF CALM(HOURS): 0

VARIABLE DIRECTION 0

HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93070101-93093024
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	2	9	0	0	0	0	11
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	4	0	0	0	0	4
E	0	4	0	0	0	0	4
ESE	0	0	0	0	0	0	0
SE	0	3	0	0	0	0	3
SSE	1	0	0	0	0	0	1
S	1	5	2	0	0	0	8
SSW	1	2	2	0	0	0	5
SW	0	7	3	0	0	0	10
WSW	2	6	1	0	0	0	9
W	1	4	0	0	0	0	5
WNW	2	7	1	0	0	0	10
NW	2	2	0	0	0	0	4
NNW	1	1	0	0	0	0	2
TOTAL	13	54	9	0	0	0	76

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93070101-93093024
 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	0	8	0	0	0	0	8
NNE	0	1	0	0	0	0	1
NE	1	0	0	0	0	0	1
ENE	1	2	0	0	0	0	3
E	0	1	0	0	0	0	1
ESE	0	3	0	0	0	0	3
SE	3	0	0	0	0	0	3
SSE	1	1	0	0	0	0	2
S	2	3	1	1	0	0	7
SSW	0	4	7	0	0	0	11
WSW	1	3	4	0	0	0	8
W	1	7	0	0	0	0	8
WNW	3	0	0	0	0	0	3
NW	0	5	2	0	0	0	7
NNW	0	2	0	0	0	0	2
	1	0	0	0	0	0	1
<hr/>							
TOTAL	14	40	14	1	0	0	69

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93070101-93093024
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	13	27	2	0	0	0	42
NNE	3	12	0	0	0	0	15
NE	6	3	0	0	0	0	9
ENE	7	14	3	0	0	0	24
E	12	15	3	0	0	0	30
ESE	2	14	3	0	0	0	19
SE	3	9	0	0	0	0	12
SSE	5	2	0	0	0	0	7
S	15	14	15	3	0	0	47
SSW	6	24	11	4	0	0	45
SW	4	24	5	0	0	0	33
WSW	4	14	3	0	0	0	21
W	7	12	6	0	0	0	25
WNW	6	21	15	0	0	0	42
NW	5	16	4	0	0	0	25
NNW	5	13	0	0	0	0	18
TOTAL	103	234	70	7	0	0	414

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93070101-93093024
 STABILITY CLASS: E 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	16	15	1	1	0	0	33
NNE	17	9	0	0	0	0	26
NE	10	3	0	0	0	0	13
ENE	12	3	0	0	0	0	15
E	18	7	0	0	0	0	25
ESE	25	10	0	0	0	0	35
SE	13	8	0	0	0	0	21
SSE	20	2	0	0	0	0	22
S	38	40	19	0	0	0	97
SSW	9	23	13	3	0	0	48
WSW	7	19	3	0	0	0	29
W	4	10	2	0	0	0	16
WNW	1	6	2	0	0	0	9
NW	3	14	1	0	0	0	18
NNW	6	7	0	0	0	0	13
	11	12	0	0	0	0	23
TOTAL	210	188	41	4	0	0	443

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93070101-93093024
STABILITY CLASS: F 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	1	0	0	0	0	5
NNE	7	0	0	0	0	0	7
NE	7	0	0	0	0	0	7
ENE	10	2	0	0	0	0	12
E	10	1	0	0	0	0	11
ESE	11	0	0	0	0	0	11
SE	9	0	0	0	0	0	9
SSE	16	0	0	0	0	0	16
S	20	7	2	1	0	0	30
SSW	10	3	1	0	0	0	14
SW	3	6	0	0	0	0	9
WSW	0	0	0	0	0	0	0
W	1	0	0	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	1	0	0	0	0	0	1
NNW	2	1	0	0	0	0	3
TOTAL	111	21	3	1	0	0	136

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93070101-93093024
 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	4	0	0	0	0	4
NNE	1	0	0	0	0	0	1
NE	2	0	0	0	0	0	2
ENE	4	0	0	0	0	0	4
E	25	0	0	0	0	0	25
ESE	16	0	0	0	0	0	16
SE	23	0	0	0	0	0	23
SSE	30	0	0	0	0	0	30
S	34	3	1	2	0	0	40
SSW	10	2	0	1	0	0	13
WSW	2	0	0	0	0	0	2
W	1	1	0	0	0	0	2
WNW	1	0	0	0	0	0	1
NW	0	0	0	0	0	0	0
NNW	0	1	0	0	0	0	1
TOTAL	149	11	1	3	0	0	164

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 624

Joint Frequency Tables
3rd Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93070101-93093024
STABILITY CLASS: ALL 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	39	93	9	1	0	0	142
NNE	28	25	0	0	0	0	53
NE	27	7	0	0	0	0	34
ENE	35	28	6	0	0	0	69
E	65	36	5	0	0	0	106
ESE	54	31	4	0	0	0	89
SE	52	27	0	0	0	0	79
SSE	74	13	0	0	0	0	87
S	112	86	46	8	0	0	252
SSW	38	66	43	10	0	0	157
SW	20	75	24	2	0	0	121
WSW	13	60	10	0	0	0	83
W	15	45	11	0	0	0	71
WNW	13	75	24	0	0	0	112
NW	16	44	4	0	0	0	64
NNW	22	43	0	0	0	0	65
TOTAL	623	754	186	21	0	0	1584

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 624

APPENDIX 2.4

Summary of Hourly Data Meteorological Data
Fourth Quarter, 1993

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93100101-93123124
 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	2	5	7	0	0	0	14
NNE	1	0	0	0	0	0	1
NE	0	0	3	0	0	0	3
ENE	0	1	0	0	0	0	1
E	0	2	1	0	0	0	3
ESE	1	3	3	0	0	0	7
SE	0	0	0	0	0	0	0
SSE	0	6	2	0	0	0	8
S	1	15	13	4	0	0	33
SSW	0	0	16	4	0	0	20
SW	4	2	11	1	0	0	18
WSW	0	13	10	1	0	0	24
W	1	13	5	3	0	0	22
WNW	0	10	7	0	0	0	17
NW	1	14	0	0	0	0	15
NNW	0	4	0	0	0	0	4
TOTAL	11	88	78	13	0	0	190
PERIODS OF CALM(HOURS):	0						
VARIABLE DIRECTION	0						
HOURS OF MISSING DATA:	825						

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93100101-93123124
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	0	4	3	0	0	0	7
NNE	0	0	2	0	0	0	2
NE	0	2	1	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	0	1	0	0	0	1
ESE	0	3	4	0	0	0	7
SE	0	0	0	0	0	0	0
SSE	1	1	0	0	0	0	2
S	2	4	3	0	0	0	9
SSW	0	1	4	2	0	0	7
SW	0	2	5	0	0	0	7
WSW	1	6	3	2	0	0	12
W	1	3	1	2	0	0	7
WNW	2	5	2	0	0	0	9
NW	0	3	0	0	0	0	3
NNW	0	3	1	0	0	0	4
TOTAL	7	37	30	6	0	0	80

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 825

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93100101-93123124
 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	2	0	0	0	9
NNE	0	3	3	0	0	0	6
NE	0	5	3	0	0	0	8
ENE	0	4	0	0	0	0	4
E	0	0	0	0	0	0	0
ESE	0	3	3	0	0	0	6
SE	0	0	0	0	0	0	0
SSE	1	1	1	0	0	0	3
S	2	5	4	1	0	0	12
SSW	0	5	2	2	0	0	9
SW	2	1	4	1	0	0	8
WSW	2	3	0	1	0	0	6
W	0	3	0	1	0	0	4
WNW	1	3	3	0	0	0	7
NW	1	7	2	0	0	0	10
NNW	0	1	1	0	0	0	2
TOTAL	10	50	28	6	0	0	94

PERIODS OF CALM (HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 825

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93100101-93123124
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	10	18	11	0	0	0	39
NNE	3	10	5	0	0	0	18
NE	6	15	6	0	0	0	27
ENE	4	9	3	0	0	0	16
E	9	8	5	0	0	0	22
ESE	8	7	4	0	0	0	19
SE	12	9	3	0	0	0	24
SSE	6	8	3	0	0	0	17
S	10	26	25	10	0	0	71
SSW	10	26	45	5	0	0	86
SW	8	16	43	1	0	0	68
WSW	3	10	21	5	0	0	39
W	3	21	21	5	0	0	50
WNW	3	27	12	3	0	0	45
NW	6	24	10	0	0	0	40
NNW	5	13	14	0	0	0	32
TOTAL	106	247	231	29	0	0	613

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 825

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93100101-93123124
 STABILITY CLASS: E 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	1	0	0	0	0	5
NNE	0	3	0	0	0	0	3
NE	7	5	0	0	0	0	12
ENE	10	6	0	0	0	0	16
E	10	1	0	0	0	0	11
ESE	6	0	0	0	0	0	6
SE	14	0	0	0	0	0	14
SSE	16	12	0	0	0	0	28
S	14	31	4	0	0	0	49
SSW	6	31	6	0	0	0	43
SW	0	10	7	1	0	0	18
WSW	0	5	4	0	0	0	9
W	2	3	1	0	0	0	6
WNW	2	5	0	0	0	0	7
NW	2	0	0	0	0	0	2
NNW	2	0	0	0	0	0	2
TOTAL	95	113	22	1	0	0	231

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 825

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 93100101-93123124
 STABILITY CLASS: F 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	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	3	0	0	0	0	0	3
ENE	6	0	0	0	0	0	6
E	11	1	0	0	0	0	12
ESE	5	0	0	0	0	0	5
SE	8	0	0	0	0	0	8
SSE	24	6	0	0	0	0	30
S	13	12	0	0	0	0	25
SSW	1	6	0	0	0	0	7
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
TOTAL	71	25	0	0	0	0	96

PERIODS OF CALM(HOURS): 0
 VARIABLE DIRECTION 0
 HOURS OF MISSING DATA: 825

Joint Frequency Tables
4th Quarter 1993

PERIOD OF RECORD = 93100101-93123124
STABILITY CLASS: G 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	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	1	0	0	0	0	0	1
ENE	2	0	0	0	0	0	2
E	10	0	0	0	0	0	10
ESE	8	0	0	0	0	0	8
SE	6	0	0	0	0	0	6
SSE	26	1	0	0	0	0	27
S	13	9	0	0	0	0	22
SSW	1	1	0	0	0	0	2
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	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
TOTAL	68	11	0	0	0	0	79

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 825

Joint Frequency Tables
4th Quarter 1993

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 93100101-93123124
STABILITY CLASS: ALL 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	17	34	23	0	0	0	74
NNE	4	16	10	0	0	0	30
NE	17	27	13	0	0	0	57
ENE	22	20	3	0	0	0	45
E	40	12	7	0	0	0	59
ESE	28	16	14	0	0	0	58
SE	40	9	3	0	0	0	52
SSE	74	35	6	0	0	0	115
S	55	102	49	15	0	0	221
SSW	18	70	73	13	0	0	174
SW	14	31	70	4	0	0	119
WSW	6	37	38	9	0	0	90
W	8	43	28	11	0	0	90
WNW	8	50	24	3	0	0	85
NW	10	48	12	0	0	0	70
NNW	7	21	16	0	0	0	44
TOTAL	368	571	389	55	0	0	1383

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 825

APPENDIX 3.0

Process Control Program (PCP) Changes

Process Control Program (PCP) Changes

The Radioactive Waste Process Control Manual 12 PMP 3150 PCP.100 was revised during this reporting period. 12 PMP 3150 PCP.200 was not revised during this reporting period. The reasons for the changes and the PNSRC approval are documented on the procedure cover sheet. It has been determined that the changes made did not reduce the overall conformance of the solidified waste product to existing criteria for solid wastes.

FEB 06 1993

CONTROLLED
DOCUMENT

DONALD C. COOK NUCLEAR PLANT PLANT MANAGER PROCEDURE COVER SHEET

Procedure No. 12 PMP 3150 PCP 100

Revision No. 3

TITLE RADIOACTIVE WASTE PROCESS CONTROL PROGRAM

SCOPE OF REVISION Incorporates Technical Specifications 3.11.3 and 4.11.3 into the procedure as steps 4.4.14 and 4.4.15 and renumbered steps to accommodate this. These changes were done per the guidance of NRC Generic Letter 89-01. Added reference to sludge as a waste stream. Changed boron concentration limit in Appendix C per AEPSC guidance. Marginal markings were used.

SIGNATURES	REVISION NUMBER			
*****	Revision 3			
PREPARED BY	<i>W. J. [Signature]</i>			
QUALITY ASSURANCE SUPERINTENDENT APPROVAL	<i>Bruce [Signature]</i>			
PLANT NUCLEAR SAFETY COMMITTEE	<i>Mtg 2678</i>			
PLANT MANAGER APPROVAL	<i>[Signature]</i>			
APPROVAL DATE	<i>2/5/93</i>			
EFFECTIVE DATE	<i>2/12/93</i>			

LIST OF EFFECTIVE PAGES

PAGE NUMBER

REVISION NUMBER/EFFECTIVE CHANGE SHEETS

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APPENDIX A

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APPENDIX B

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APPENDIX C

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Revision 3

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT

1.0 TITLE: RADIOACTIVE WASTE PROCESS CONTROL PROGRAM.

2.0 OBJECTIVE:

- 2.1 To give instructions for the processing of radioactive waste such that all plant generated radioactive wastes will be in compliance with applicable codes, standards, and processing/burial site criteria prior to shipment.
- 2.2 This procedure impacts and directs the activities of the Radiation Protection, Operations and Chemistry Departments only, therefore other interfacing Departments reviews are not required for this or further revisions.

3.0 REFERENCES:

- 3.1 Code of Federal Regulations, Title 10.
- 3.2 Code of Federal Regulations, Title 49.
- 3.3 Code of Federal Regulations, Title 40.
- 3.4 State of South Carolina, Radioactive Materials License #97.
- 3.5 State of Washington, Radioactive Materials License #WN-I019-02.
- 3.6 USNRC Technical Position on Waste Form, Revision 0.
- 3.7 Vendor Radwaste Handling Service Manuals.
- 3.8 PMI-3150, Packaging and Shipment of Radioactive Materials and Waste.
- 3.9 FSAR, Chapter 11, Waste Disposal and Radiation Protection Systems.
- 3.10 D. C. Cook Plant Technical Specifications.
- 3.11 I.E. Bulletin No. 79-19, Low Level Radioactive Waste Disposal.
- 3.12 USNRC Generic Letter 89-01.

4.0 DETAILED PROCEDURE

4.1 Responsibilities

- 4.1.1 Appendix A of this procedure, identifies departmental responsibilities as they pertain to radwaste processing.

4.2 Limitations/Precautions

- 4.2.1 Cleaning solutions, oil and all other petroleum products shall not be allowed to enter the radioactive waste processing system (i.e., floor drains, open systems, . . .).
- 4.2.2 Consideration has been given to our waste management program to ensure that actions have been implemented to segregate hazardous wastes as defined by the EPA Regulations, from low level radioactive wastes. Appendix B of this procedure, outlines this mixed waste program.

4.3 Liquid Processing

- 4.3.1 Plant liquid waste processing equipment is designed to process liquid wastes in the chemical and physical forms which exist in the plant's operating systems.
- 4.3.2 Administrative procedures shall dictate the plant's operating systems' chemical parameters and sampling requirements to insure that the systems are operated within these parameters.
- 4.3.3 Liquids which could be detrimental to the waste processing system shall be prevented from entering the liquid waste system.
- 4.3.4 Liquid wastes will be collected in waste holding tanks in the Auxiliary Building.
- 4.3.5 The liquid wastes will then be processed via one of two methods;
 - 4.3.5.1 Liquid Radwaste Demineralizer System, or
 - 4.3.5.2 Waste Evaporator System.
- 4.3.6 Procedures shall be written and maintained for the operation of these systems.
 - 4.3.6.1 Appendix C, gives operating parameters that will be complied with during operation of the Waste Evaporator System.

- 4.3.7 Both liquid processing systems are designed to reduce the liquid waste's radioactivity to levels acceptable for release to the environment as defined by 10 CFR 20, Appendix B and D.C. Cook Plant Technical Specifications.
- 4.3.8 Spent radioactive resins produced from operation of the Liquid Radwaste demineralizer System, shall be processed in accordance with Section 4.5 of this procedure.
- 4.3.9 Waste evaporator bottoms produced from operation of the Waste Evaporator System, shall be processed via one of two methods;
- 4.3.9.1 Waste evaporator bottoms may be recycled back into the Liquid Waste Processing System, then processed again by the Liquid Radwaste Demineralizer System; or
- 4.3.9.2 The waste evaporator bottoms may be solidified in accordance with Section 4.4 of this procedure.

4.4 Solidifications

- 4.4.1 The SOLIDIFICATION process is the process of converting radioactive liquids, resins, and other miscellaneous wastes (i.e. boric acid, sludge, . . .) into an acceptable form for shipping and burial as required by 10 CFR Parts 20, 61, and 71.
- 4.4.2 The waste to be solidified will be transferred to a container suitable for shipping the waste in compliance with applicable codes and standards.
- 4.4.3 Prior to starting any solidification process, the waste shall be sampled. The sample results should be within the limits listed in Appendix C, Table 2 to insure proper solidification.
- 4.4.4 Using these sample results, a solidification method approved by the applicable regulatory authorities shall be chosen.
- 4.4.5 A test solidification specimen shall be prepared for each container prior to attempting solidification of the liner.

- 4.4.6 For high activity wastes, it is acceptable to prepare test solidification specimens with non-radioactive samples. These samples should be as close to the actual waste in their physical and chemical properties as possible.
- 4.4.7 The test solidification will be considered acceptable if;
- 4.4.7.1 There is no free standing water, and
 - 4.4.7.2 Upon visual inspection, the waste appears that it would hold its shape if removed from the test vessel, and
 - 4.4.7.3 It resists penetration.
- 4.4.8 An acceptable solidification will ensure < 0.5% free standing water, and "stability" as defined by 10 CFR 61 when required.
- 4.4.9 If the test solidification fails any one of the criteria listed in Step 4.4.7, it is unacceptable.
- 4.4.10 If the test solidification specimen is unacceptable, prepare another specimen taking into consideration;
- 4.4.10.1 Adjusting the pH of the waste.
 - 4.4.10.2 Adjusting the waste to solidification agent ratio.
- 4.4.11 The waste container will be solidified using the solidification parameters as determined in the acceptable test solidification specimen.
- 4.4.12 Containers of solidified wastes shall be held a minimum of 24 hours prior to shipment.
- 4.4.13 The Radwaste Solidification System shall be demonstrated operable at least once per 92 days by one of the following methods:
- 4.4.13.1 Operating the system, or
 - 4.4.13.2 Verifying the existence of a valid contract for solidification to be performed by a contractor.
- 4.4.14 If after repeated attempts a waste container cannot be solidified or if the radwaste solidification system cannot be demonstrated to be operable;
- 4.4.14.1 Declare the system inoperable

- 4.4.14.2 Suspend all shipments of defectively solidified waste, and
- 4.4.14.3 Take action to return the system to operability.
- 4.4.15 With the solid radwaste system inoperable for more than 31 days, prepare and submit to the Commission within 30 days pursuant to Technical Specification 6.9.2 a Special Report which includes the following information:
 - 4.4.15.1 Identification of the inoperable equipment or subsystems and the reason for inoperability.
 - 4.4.15.2 Action(s) taken to restore the inoperable equipment to operable status,
 - 4.4.15.3 A description of the alternative used for SOLIDIFICATION and packaging of radioactive wastes, and
 - 4.4.15.4 Summary description of action(s) taken to prevent a recurrence.
- 4.4.16 Procedures shall be written and maintained to cover the following topics as a minimum:
 - 4.4.16.1 Test Solidifications.
 - 4.4.16.2 Acceptability of Solidification Test Specimens.
 - 4.4.16.3 Solidification of Containers Containing Radioactive Waste.
- 4.5 Spent Resins and Sludges
 - 4.5.1 Spent resins and sludges will be transferred to a container suitable for shipping the waste in compliance with applicable codes and standards.
 - 4.5.2 Normally the transfer is accomplished by sluicing the resin/sludge from the Spent Resin Storage Tank, directly from a demineralizer or hoding tank to the shipping container.
 - 4.5.3 The container selected to be used will be selected taking into consideration the volume of resin/sludge to be sluiced, dewatering or solidifying requirements, and stability requirements as defined by 10 CFR 61.

- 4.5.4 Solidification of spent resins/sludge is acceptable, however, resins will normally be dewatered and sludge will attempt to be dewatered prior to solidification.
- 4.5.5 Dewatering of spent resins/sludge may be accomplished via one of the following methods;
 - 4.5.5.1 Pumping or draining water from the bottom of a high integrity container using a drain system installed in the high integrity container, or
 - 4.5.5.2 Heat enhanced dewatering, where moisture is driven off by the introduction of warm air into a high integrity container.
- 4.5.6 In all cases, when high integrity containers are dewatered, they shall be dewatered to < 1.0% free standing water by volume.
- 4.5.7 Procedures shall be written and maintained to cover the following topics as a minimum;
 - 4.5.7.1 Transfer of resins to shipping containers.
 - 4.5.7.2 Dewatering of resins/sludge in high integrity containers.
 - 4.5.7.3 Verification of < 1.0% free standing Water in high integrity containers.

4.6 Contaminated Oils

- 4.6.1 Contaminated oils are burned in the Plant Heating Boiler.
- 4.6.2 Prior to placing the oil in the Plant Heating Boiler Storage Tank, a quantitative and qualitative radioisotopic analysis is required.
- 4.6.3 The isotopic analysis and volume of oil is used to determine the total activity to be released via the heating boiler's exhaust.
- 4.6.4 The activity released shall be within limits delineated in D. C. Cook Plant Technical Specifications.

4.7 Compressible Wastes

- 4.7.1 Contaminated and potentially contaminated compressible wastes are collected from various areas in the Auxiliary Building, and are normally taken to the Drumming Rooms.

- 4.7.2 The waste is segregated to remove reusable materials and materials which would be in non-compliance with Federal and Burial Site Regulations, (i.e., liquids, paint, etc. . .)
- 4.7.3 The waste may be processed either of two ways;
 - 4.7.3.1 Compacted in qualified shipping containers for burial, or
 - 4.7.3.2 Packaged and shipped to a contracted radwaste processor for further processing, volume reduction, packaging, and eventual shipment to a burial site.
- 4.7.4 Procedures shall be written and maintained to cover the following topics as a minimum;
 - 4.7.4.1 Packaging of waste in shipping containers.
 - 4.7.4.2 Documentation of container contents, radiological data, container qualification, and volume.

4.8 Non-Compressible Wastes

- 4.8.1 Contaminated and potentially contaminated non-compressible wastes are collected from various areas in the Auxiliary Building, and are normally taken to the Drumming Rooms.
- 4.8.2 The waste is segregated to remove reusable materials and materials which would be in non-compliance with Federal and Burial Site Regulations.
- 4.8.3 The waste may be handled either of two ways;
 - 4.8.3.1 Packaged in qualified shipping containers for burial, or
 - 4.8.3.2 Packaged and shipped to a contracted radwaste processor for further processing, volume reduction, packaging, and eventual shipment to a burial site.
- 4.8.4 Procedures shall be written and maintained to cover the following topics as a minimum;
 - 4.8.4.1 Packaging of non-compressible waste in shipping containers.
 - 4.8.4.2 Documentation of container contents, radiological data, container qualification, and volume.

4.9 Waste Filters

- 4.9.1 Absolute air filters and HEPA filters may be processed as compressible and/or non-compressible wastes.
- 4.9.2 Filters with an activity of $<1.0 \mu\text{Ci/cc}$ of all radioisotopes with a halflife of >5 years, may be handled as compressible or non-compressible wastes.
- 4.9.3 Filters with an activity of $>1.0 \mu\text{Ci/cc}$ of all radioisotopes with a halflife of >5 years, must be stabilized prior to shipment for disposal.
- 4.9.4 Once changed, the waste filters are normally placed in a drum and stored until they are packaged for shipment.
- 4.9.5 At the time of final packaging for shipment, the filter shall be verified free of water.
- 4.9.6 Liquid process filters shall be packaged for shipment only in qualified shipping containers.
- 4.9.7 The container selected to be used will be selected taking into consideration the volume of filters to be disposed of, dewatering or solidification requirements, and stability requirements as defined by 10CFR61.
- 4.9.8 Procedures shall be written and maintained to cover the following topics as a minimum;
 - 4.9.8.1 Venting, draining, and changing of liquid process filters.

4.10 Stabilization of Unstable Wastes

- 4.10.1 Class A waste with a total activity of $\geq 1.0 \mu\text{Ci/cc}$, and all Class B and C waste must be stabilized in accordance with 10 CFR61 and the applicable burial site criteria.
- 4.10.2 Stabilization shall be achieved by packaging the waste in approved high integrity containers or by using an approved solidification process.

5.0 REPORTING

5.1 Documentation

- 5.1.1 Documentation shall be maintained for the following topics;
 - 5.1.1.1 Radiological data associated with each waste package.
 - 5.1.1.2 Package contents.
 - 5.1.1.3 Processed waste effluents released to the environment, (i.e., liquid releases . . .).
 - 5.1.1.4 Solidification data.
 - 5.1.1.5 Dewatering data.
 - 5.1.1.6 Weights and/or volumes of waste packaged.

5.2 A semi-annual effluent report shall be sent to the NRC semi-annually. This report may be provided only annually at the NRC's disgression. This report shall include the following information for each type of solid waste shipped off-site during the report period;

- 5.2.1 Volume (cubic meters),
- 5.2.2 Total curie quantity (specify whether determined by measurement or estimate),
- 5.2.3 Principle radionuclides (specify whether determined by measurement or estimate),
- 5.2.4 Type of waste (e.g., spent resin, compacted dry waste, evaporator bottoms),
- 5.2.5 Type of container (e.g., LSA, Type A, Type B, Large Quantity),
- 5.2.6 Solidification agent (e.g., cement).

5.3 An Annual Operating Report shall be sent to the NRC annually. This report shall include the following information regarding major changes to the Solid Rad Waste Treatment Systems initiated by the Plant;

- 5.3.1 A summary of the evaluation that led to the determination that the change could be made in accordance with 10 CFR 50.59;

- 5.3.2 Sufficient detailed information to totally support the reason for the change without benefit of additional or supplemental information;
 - 5.3.3 A detailed description of the equipment, components and processes involved and the interfaces with other plant systems;
 - 5.3.4 An evaluation of the change which shows the predicted quantity of solid waste that differ from those previously predicted in the license application and amendments thereto;
 - 5.3.5 An evaluation of the change which shows the expected maximum exposure to individuals in the unrestricted area and to the general population that differ from those previously estimated in the license application and amendments thereto;
 - 5.3.6 A comparison of the predicted releases of radioactive materials in solid wastes to the actual releases for the period prior to when the changes are to be made;
 - 5.3.7 An estimate of the exposure to plant operating personnel as a result of the change; and
 - 5.3.8 Documentation of the fact that the change was reviewed and found acceptable by the PNSRC.
- 5.4 For Commission initiated changes to the Solid Rad Waste Treatment System, the applicability of the change to the facility shall be determined by the PNSRC after consideration of the facility design, and the Plant shall provide the Commission with written notification of its determination of applicability including any necessary revisions to reflect facility design.

RESPONSIBILITIES FOR THE PROCESSING OF LIQUID
WASTES AND THEIR BY-PRODUCT WASTES

PROCESS	PERFORMED BY	PROCEDURES FOR PROCESS MAINTAINED BY	SUPERVISED AND/OR VERIFIED BY
Operate Rad Waste Evaporator	Operations	Operations	Shift Supervisor/Ass. SS - Operations
Transfer Evaporator Bottoms	Operations	Operations	Shift Supervisor/Ass. SS - Operations
Monitor Chemical and Rad Activity Parameters of Rad Waste Demineralizers	Chemistry	Chemistry	Chemistry Supervisor/ Rad Material Control
Operate Rad Waste Demineralizers	Rad Material Control	Rad Material Control	Rad Material Control
Monitor Rad Activity Parameters of Rad Waste Demineralizers	Chemistry	Chemistry	Chemistry Supervisor/ Rad Material Control
Sluice Rad Waste Demineralizer Resins	Rad Material Control	Rad Material Control	Rad Material Control
Packaging of Rad Waste Demineralizer Resins	Rad Material Control	Rad Material Control	Rad Material Control
Packaging of Waste Evaporator Bottoms	Rad Material Control	Rad Material Control	Rad Material Control
Solidification of Waste Evaporator Bottoms	Rad Material Control	Rad Material Control	Rad Material Control
Test Solidifications	Rad Material Control	Rad Material Control	Rad Material Control
Verification of Test Solidifications	Rad Material Control	Rad Material Control	Rad Material Control
Verification of Solidifications	Rad Material Control	Rad Material Control	Rad Material Control
Determine Curie Content of Packages	Rad Material Control	Rad Material Control	Rad Material Control

A3.0-14

RESPONSIBILITIES FOR THE TRANSFER
AND PROCESSING OF SPENT RESINS

PROCESS	PERFORMED BY	PROCEDURES FOR PROCESS MAINTAINED BY	SUPERVISED AND/OR VERIFIED BY
Sluice Resin from Plant Demineralizer to SRST	Operations	Operations	S - Operations V - Radiation Prot.
Sluice Resin from Plant Demineralizer to a HIC	Operations	Operations	S - Operations V - Radiation Prot./ Rad Material Control
Sluice Resin from SRST to a HIC	Rad Material Control	Rad Material Control	Rad Material Control
Dewatering Using Installed Drain System	Rad Material Control	Rad Material Control	Rad Material Control
Dewatering Using Heat Enhanced Method	Rad Material Control	Rad Material Control	Rad Material Control
Dewatering Verifications	Rad Material Control	Rad Material Control	Rad Material Control
Sampling of Resin	Rad Material Control	Rad Material Control	Rad Material Control
Quantitative and Qualitative Isotopic Analysis of Waste Resin	Chemistry	Chemistry	Chemistry
Determine Curie Content of the Packages	Rad Material Control	Rad Material Control	Rad Material Control

A3.0-15

RESPONSIBILITIES FOR THE PROCESSING
OF COMPRESSIBLE AND NON-COMPRESSIBLE WASTES

PROCESS	PERFORMED BY	PROCEDURES FOR PROCESS MAINTAINED BY	SUPERVISED AND/OR VERIFIED BY
Collection and Transfer of Control/RP Waste to Processing Area	Rad Material Control/RP	Rad Material Control/RP	Rad Material
Segregation of Non-Compliance Materials	Rad Material Control	Rad Material Control	Rad Material Control
Compaction of Compressible Waste	Rad Material Control	Rad Material Control	Rad Material Control
Packaging for Shipment to a Processor	Rad Material Control	Rad Material Control	Rad Material Control
Packaging of Non-Compressibles for Burial	Rad Material Control	Rad Material Control	Rad Material Control
Isotopic Analysis of Waste	Chemistry/RP	Chemistry/RP	Chemistry/RP
Determine Curie Content of Package	Rad Material Control	Rad Material Control	Rad Material Control

RESPONSIBILITIES FOR THE PROCESSING
OF CONTAMINATED WASTE OIL

PROCESS	PERFORMED BY	PROCEDURES FOR PROCESS MAINTAINED BY	SUPERVISED AND/OR VERIFIED BY
Transfer of Oil to Heating Boiler Storage Tank	Rad Material Control/ Maintenance/ Construction	Rad Material Control	Rad Material Control
Isotopic Analysis of Oil	Chemistry	Chemistry	Chemistry
Activity Released Determination	Rad Material Control	Rad Material Control	Rad Material Control

A3.0-17

RESPONSIBILITIES FOR THE PROCESSING
OF WASTE FILTERS

PROCESS	PERFORMED BY	PROCEDURES FOR PROCESS MAINTAINED BY	SUPERVISED AND/OR VERIFIED BY
Venting and Draining of Filter Housing	Operations	Operations	Operations
Changeout and Transfer of Filter	RP	RP	RP/ Radiation Protection
Packaging of Filters for Shipment	Rad Material Control	Rad Material Control	Rad Material Control
Isotopic Analysis of Filter	Chemistry/RP	Chemistry/RP	Chemistry/RP
Verification of Filter Drainage	Rad Material Control	Rad Material Control	Rad Material Control
Determine Curie Content of Package	Rad Material Control	Rad Material Control	Rad Material Control

A3.0-18

MIXED WASTE PROGRAM

Purpose

- 1.1 This program is designed to establish guidelines and procedural requirements which will provide adequate assurance that the plant is in compliance with current restrictions on the burial of low-level radioactive waste mixed with hazardous materials. These requirements are applicable to all radioactive wastes packaged for burial.

Policy

- 2.1 All chemicals used within the controlled area of the plant will be utilized in accordance with PMI-2160, which includes restrictions on their disposal.

Definitions

- 3.1 Mixed Waste - Mixed low-level radioactive and hazardous waste (mixed waste) is waste that satisfies the definition of low-level radioactive waste (LLW) in the Low-Level Radioactive Waste Policy Amendments Act of 1985 (LLRWPA) and contains hazardous waste that either (1) is listed as a hazardous waste in Subpart D of 40 CFR Part 261 or (2) causes the LLW to exhibit any of the hazardous waste characteristics identified in Subpart C of 40 CFR Part 261.
- 3.2 Hazardous Characteristics - The four characteristics that a waste may exhibit that result in it being classified as a hazardous waste are: ignitability (Part 261.21); corrosivity (Part 261.22); reactivity (Part 261.23); and EP toxicity (Part 261.24).

Identification of Mixed Waste

- 4.1 Determine which waste streams have the potential for containing mixed waste. This determination should be done by applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used.

- 4.2 Determine whether the radioactive waste contains any hazardous wastes specifically listed in Subpart D of 40 CFR Part 261, from PMI-2160, Chemical Permits.
- 4.3 Determine whether the radioactive waste contains hazardous waste that causes the waste to exhibit any of the hazardous waste characteristics identified in Subpart C of 40 CFR 261 by collecting representative samples for testing.
- 4.4 Samples shall be processed into their normal form for transportation and burial. For example, sludges are solidified for burial so the sample should be solidified prior to testing. The parameters used to solidify the sample should be the same as would be used for full scale processing.
- 4.5 Have the final waste form samples analyzed for a particular hazardous chemical if one has been identified in 4.3, or for the hazardous characteristics of 4.4.
- 4.6 If the analysis results in the waste not being classified as a mixed waste it may be disposed under normal plant procedures.
- 4.7 If the analysis results in the waste being classified as a mixed waste it should be held on site until such time that an appropriate disposal facility is available, unless approved per Section 6.0.

5.0 Sampling Frequency

- 5.1 As a minimum, samples of radwaste resin, evaporator concentrates and sludges, if available, should be collected annually and sent offsite for RCRA Waste Characterization.

6.0 Exceptions

- 6.1 The Barnwell burial site (licensee: Chem. Nuclear) may receive waste that has been treated by acceptable methods to render it non-hazardous and therefore not subject to the jurisdiction of the Resources Conservation and Recovery Act (RCRA). Waste which may contain discreet quantities of hazardous or toxic materials may be evaluated for disposal by Chem-Nuclear and such evaluations provided to the South Carolina Department of Health and Environmental Control (DHEC) for consideration of approval.

PARAMETERS FOR THE OPERATION OF THE
WASTE EVAPORATOR SYSTEM

The limit of volume reduction for the Waste Evaporator System is dependent on the concentration of various chemical and radiochemical parameters.

The boron concentration should be kept within the limits listed in Table 1, to prevent crystallization of boron in the evaporator package. If the boron concentration increases above this limit, sodium hydroxide should be added to maintain an acceptable pH and to convert the boric acid to a more soluble form.

The concentration of chlorides should be kept below the limit listed in Table 1. Chlorides must be controlled to prevent corrosion of the evaporator's internal components.

The gross $\beta\gamma$ activity of the evaporator bottoms should be kept below the limit listed in Table 1. The activity is maintained, to insure that the evaporator bottoms may be solidified and shipped in compliance with applicable regulations.

Samples will be taken periodically by the Chemistry Section during waste evaporator operation to monitor these chemical and radiochemical parameters.

Prior to attempting solidification of waste evaporator bottoms, the bottoms should be sampled and found to be within the limits listed in Table 2.

TABLE 1

Boron Concentration	- $\leq 25,000$ ppm
pH	- 7.4 - 9.2
Gross $\beta\gamma$ Total	- $< 0.2 \mu\text{Ci/cc}$
Chlorides	- $\leq 10,000$ ppm

TABLE 2

Boron Concentration	- 0 - 40,000 ppm
pH	- 7.4 - 9.2 or > 11.5
*Radionuclides with $A < 0.05$	- $1.0\text{E-}4 \mu\text{Ci/gm}$
*Radionuclides with $A > 0.05$ and < 1.0	- $5.0\text{E-}3 \mu\text{Ci/gm}$
*Radionuclides with $A > 1.0$	- $3.0\text{E-}1 \mu\text{Ci/gm}$
Chlorides	- 0 - 10,000 ppm

*A defined in 10 CFR 71, Appendix A.

APPENDIX 4.0

Offsite Dose Calculation Manual (ODCM) Changes

Offsite Dose Calculation Manual (ODCM)

The Offsite Dose Calculation Manual, PMP 6010.OSD.001, was changed during the report period. The reasons for the changes and the PNSRC approval are documented on the procedure change sheets. These changes did not reduce the accuracy or reliability of dose calculations or setpoint determinations.

INDIANA MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
INSTRUCTION AND PROCEDURE CHANGE SHEET

CONTROLLED
DOCUMENT

INSTRUCTION OR PROCEDURE NO.: PMP 6010 OSD.001 REVISION NO.: 6 CHANGE SHEET 1
TITLE: Off-Site Dose Calculation Manual PAGE 1 OF 1

ORIGINATED BY: <u>D. Jones</u>	DATE: <u>2/24/93</u>
MANAGEMENT STAFF: <u>Long, N. Jones, G. H. Jones</u>	DATE: <u>2/24/93</u>
SENIOR REACTOR OPERATOR: <u>W. H. Jones</u>	DATE: <u>2-24-93</u>
50.59 REVIEWS COMPLETED: <u>D. Jones</u>	DATE: <u>2/24/93</u>
Q.A. SUPERINTENDENT: <u>B. Jones</u>	DATE: <u>2/24/93</u>
PNSRC: <u>Meeting # 2683</u>	DATE: <u>3/2/93</u>
APPROVED BY: <u>W. H. Jones</u>	DATE: <u>3/8/93</u>

EXPIRATION DATE: N/A

DESCRIPTION OF CHANGE

Updated Attachment 3.11, RRS-1000 efficiencies, to correct for rounding errors, also corrected nonconservative MPC values. Corrected typo on Attachment 3.12. Updated Attachment 3.17 to reflect 1992 average annual X/Q and D/Q values.

REASON(S) FOR CHANGE

Review of data supplied in Watts-Bar Jones report and to provide consistency.
Review of new X/Q and D/Q values.

INSTRUCTIONS FOR INCORPORATING CHANGE

Replace the following:

List of Effective Pages, Page 5 of 6, Rev. 6 with Page 5 of 6, Rev. 6, CS-1.

Attachment 3.11, Page 1 of 1, Rev. 6 with Page 1 of 1, Rev. 6, CS-1.

Attachment 3.12, Page 1 of 1, Rev. 6 with Page 1 of 1, Rev. 6, CS-1.

Attachment 3.17, Pages 1 and 2 of 2, Rev. 6 with Pages 1 and 2 of 2, Rev. 6, CS-1.

MAR 19 1993

Form No. 5329
(Rev. 10/91)

CONTROLLED
DOCUMENT

INDIANA MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
INSTRUCTION AND PROCEDURE CHANGE SHEET

PROCEDURE NO.: 12 PMP 6010.OSD.001 REVISION NO.: 6 CHANGE SHEET NO.: 2
E: Off-Site Dose Calculation Manual PAGE 1 OF 1

ORIGINATED BY: DL Noble DATE: 3/9/93
MANAGEMENT STAFF: DL Noble DATE: 3/10/93
SENIOR REACTOR OPERATOR: Chas. A. Heston DATE: 3-10-93
NO.59 REVIEWS COMPLETED: MARTIN NOBLE DATE: 3-9-93
D.A. SUPERINTENDENT: Meeting #2685 DATE: 3/11/93
NSRC: Meeting #2685 DATE: 3/18/93
APPROVED BY: Meeting #2685 DATE: 3/18/93

EXPIRATION DATE: N/A

DESCRIPTION OF CHANGE

Moved the word "continuous" down in Attachment 3.7 to coincide with the Noble Gas Monitor. Added nominal value term to flow rate section of Attachment 3.10.

REASON(S) FOR CHANGE

- ① Corporate direction to comply with how technical specification was written. Quality Assurance Department desired clarification of these terms.

- ① Actual change on Att. 3.7 was to clarify "continuous" by moving it next to the noble gas monitoring parameter. Compliance with Technical Specifications was never a question. Editorial correction. Chas Noble 3/18/93

INSTRUCTIONS FOR INCORPORATING CHANGE

Replace the following:

List of Effective Pages, Page 4 of 6, Rev. 6 with Page 4 of 6, Rev. 6, CS-2.

Attachment 3.7. Page 1 of 3, Rev. 6 with Page 1 of 3, Rev. 6, CS-2.

Attachment 3.10. Page 1 of 1, Rev. 6 with page 1 of 1, Rev. 6, CS-2.

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Revision 6

VOLUMETRIC DETECTION EFFICIENCIES AND MPC
OF PRINCIPLE GAMMA EMITTING RADIONUCLIDES

<u>ISOTOPE</u>	<u>MPC</u> <u>(μCi/cc)</u>	<u>EFFICIENCY</u> <u>(cpm/μCi/cc)</u>
I-131	3.00E-7	3.78E7
Cs-137	2.00E-5	3.00E7
Cs-134	9.00E-6	7.93E7
Co-60	3.00E-5	5.75E7
Co-58	9.00E-5	4.58E7
Cr-51	2.00E-3	3.60E6
Mn-54	1.00E-4	3.30E7
Zn-65	1.00E-4	1.58E7
Ag-110m	3.00E-5	9.93E7
Ba-133	3.00E-6	4.85E7
Ba-140	2.00E-5	1.92E7
Cd-109	2.00E-4	9.58E5
Ce-139	3.00E-6	3.28E7
Ce-141	9.00E-5	1.92E8
Ce-144	1.00E-5	4.83E6
Co-57	4.00E-4	3.80E7
Cs-136	6.00E-5	1.07E8
Fe-59	5.00E-5	2.83E7
Sb-124	2.00E-5	5.93E7
I-133	1.00E-6	3.40E7
I-134	2.00E-5	7.23E7
I-135	4.00E-6	3.95E7
Mo-99	4.00E-5	8.68E6
Na-24	3.00E-5	4.45E7
Nb-95	1.00E-4	3.28E7
Nb-97	9.00E-4	3.50E7
Rb-89	3.00E-6	5.00E7
Ru-103	8.00E-5	3.48E7
Ru-106	1.00E-5	1.23E7
Sb-122	3.00E-5	2.55E7
Sb-125	1.00E-4	3.15E7
Sn-113	8.00E-5	7.33E5
Sr-85	1.00E-4	3.70E7
Sr-89	3.00E-6	2.88E3
Sr-92	6.00E-5	3.67E7
Tc-99m	3.00E-3	3.60E7
Y-88	3.00E-6	5.25E7
Zr-95	6.00E-5	3.38E7
Zr-97	2.00E-5	3.10E7
Kr-85	N/A	1.56E5
Kr-85M	N/A	3.53E7
Kr-88	N/A	4.10E7
Xe-131m	N/A	8.15E5
Xe-133	N/A	7.78E6
Xe-133m	N/A	5.75E6
Xe-135 .	N/A	3.83E7

NOTE: MPC value for the total dissolved gas concentration shall be limited to 2.00E-4 μ Ci/cc.

Isotopes Released in Liquid Effluents

<u>Isotope</u>	<u>MPC</u> <u>(μCi/ml)</u>
Cr-51	2.00E-04
Mn-54	1.00E-04
Fe-55	8.00E-04
Fe-59	5.00E-05
Co-57	5.00E-04
Co-58	9.00E-05
Co-60	3.00E-05
Zn-65	1.00E-04
Kr-85	**
Sr-85	1.00E-04
Sr-90	3.00E-07
Sr-92	6.00E-05
Zr-95	6.00E-05
Zr-97	2.00E-05
Nb-95	1.00E-04
Ag-110m	3.00E-05
Sn-113	8.00E-05
Sb-122	3.00E-05
Sb-124	2.00E-05
Sb-125	1.00E-04
I-131	3.00E-07
I-132	8.00E-06
I-133	1.00E-06
I-135	4.00E-06
Xe-131m	**
Xe-133	**
Xe-133m	**
Xe-135	**
Cs-134	9.00E-06
Cs-136	6.00E-05
Cs-137	2.00E-05
Ce-144	1.00E-05

Note: MPC value for the total dissolved gas
concentration shall be limited to 2.00E-04 μ Ci/ml.

$\overline{X/Q}$ GROUND AVERAGE (sec/m³)

01JAN92 - 31DEC92

DISTANCE (METERS)

DIRECTION (WIND TO)	594	2416	4020	5630	7240
S	3.8798E-06	4.4014E-07	2.0395E-07	1.2036E-07	8.3857E-08
SSW	3.2050E-06	3.7045E-07	1.7934E-07	1.0877E-07	7.6731E-08
SW	3.5990E-06	4.2292E-07	2.0587E-07	1.2525E-07	8.8500E-08
WSW	5.5670E-06	6.2306E-07	3.1102E-07	1.9226E-07	1.3718E-07
W	8.3813E-06	9.0224E-07	4.5955E-07	2.8778E-07	2.0660E-07
WNW	8.8042E-06	9.6989E-07	4.9016E-07	3.0543E-07	2.1873E-07
NW	1.0604E-05	1.1631E-06	5.9011E-07	3.6858E-07	2.6428E-07
NNW	7.1653E-06	7.8818E-07	3.9705E-07	2.4687E-07	1.7677E-07
N	9.5418E-06	1.0810E-06	5.3677E-07	3.3067E-07	2.3559E-07
NNE	4.4821E-06	4.9972E-07	2.4413E-07	1.4896E-07	1.0565E-07
NE	3.3597E-06	3.7018E-07	1.7946E-07	1.0901E-07	7.7241E-08
ENE	2.6252E-06	2.8937E-07	1.3852E-07	8.3533E-08	5.8871E-08
E	3.2837E-06	3.6316E-07	1.7171E-07	1.0268E-07	7.2007E-08
ESE	3.0817E-06	3.3515E-07	1.5561E-07	9.2042E-08	6.4036E-08
SE	3.7516E-06	4.0791E-07	1.9692E-07	1.1956E-07	8.4344E-08
SSE	3.0878E-06	3.4255E-07	1.5871E-07	9.3673E-08	6.5326E-08

DISTANCE.

DIRECTION (WIND TO)	12067	24135	40225	56315	80500
S	4.1366E-08	1.5884E-08	7.8979E-09	5.0672E-09	3.1740E-09
SSW	3.8614E-08	1.5266E-08	7.6063E-09	4.8699E-09	3.0781E-09
SW	4.4682E-08	1.7766E-08	8.8864E-09	5.7062E-09	3.6161E-09
WSW	7.0448E-08	2.8542E-08	1.4301E-08	9.1742E-09	5.8703E-09
W	1.0716E-07	4.3980E-08	2.2099E-08	1.4188E-08	9.1392E-09
WNW	1.1303E-07	4.6208E-08	2.3235E-08	1.4936E-08	9.6014E-09
NW	1.3685E-07	5.6087E-08	2.8218E-08	1.8142E-08	1.1676E-08
NNW	9.1361E-08	3.7303E-08	1.8743E-08	1.2042E-08	7.7386E-09
N	1.2073E-07	4.8793E-08	2.4461E-08	1.5704E-08	1.0034E-08
NNE	5.3725E-08	2.1450E-08	1.0692E-08	6.8422E-09	4.3541E-09
NE	3.9256E-08	1.5641E-08	7.8059E-09	5.0028E-09	3.1871E-09
ENE	2.9616E-08	1.1669E-08	5.8157E-09	3.7262E-09	2.3606E-09
E	3.5896E-08	1.3967E-08	6.9326E-09	4.4355E-09	2.7988E-09
ESE	3.1420E-08	1.1966E-08	5.8886E-09	3.7477E-09	2.3407E-09
SE	4.2453E-08	1.6814E-08	8.4122E-09	5.4041E-09	3.4342E-09
SSE	3.2286E-08	1.2405E-08	6.1653E-09	3.9528E-09	2.4808E-09

DIRECTION - SECTOR

N - A	E - E	S - J	W - N
NNE - B	ESE - F	SSW - K	WNW - P
NE - C	SE - G	SW - L	NW - Q
ENE - D	SSE - H	WSW - M	NNW - R

Current $\overline{X/Q}$ - 1.06E-05 sec/m³ in Sector Q

D/Q GROUND AVERAGE (1/m²)01JAN92 - 31DEC92
DISTANCE (METERS)DIRECTION
(WIND TO)

	594	2416	4020	5630	7240
S	3.0427E-08	2.9385E-09	1.3324E-09	6.9908E-10	4.4599E-10
SSW	1.1111E-08	1.0731E-09	4.8656E-10	2.5528E-10	1.6286E-10
SW	1.1038E-08	1.0660E-09	4.8334E-10	2.5359E-10	1.6178E-10
WSW	1.5453E-08	1.4923E-09	6.7668E-10	3.5503E-10	2.2650E-10
W	1.9610E-08	1.8938E-09	8.5874E-10	4.5056E-10	2.8744E-10
WNW	2.1155E-08	2.0431E-09	9.2641E-10	4.8606E-10	3.1009E-10
NW	2.2664E-08	2.1888E-09	9.9246E-10	5.2072E-10	3.3220E-10
NNW	1.9316E-08	1.8654E-09	8.4585E-10	4.4379E-10	2.8312E-10
N	3.3334E-08	3.2192E-09	1.4597E-09	7.6586E-10	4.8859E-10
NNE	2.0052E-08	1.9365E-09	8.7807E-10	4.6070E-10	2.9391E-10
NE	1.8874E-08	1.8228E-09	8.2651E-10	4.3365E-10	2.7665E-10
ENE	1.6924E-08	1.6345E-09	7.4112E-10	3.8885E-10	2.4807E-10
E	1.9279E-08	1.8619E-09	8.4424E-10	4.4295E-10	2.8258E-10
ESE	2.0972E-08	2.0253E-09	9.1835E-10	4.8183E-10	3.0739E-10
SE	1.8433E-08	1.7801E-09	8.0718E-10	4.2350E-10	2.7018E-10
SSE	2.3363E-08	2.2563E-09	1.0231E-09	5.3678E-10	3.4244E-10

DIRECTION
(WIND TO)

	12067	24135	40225	56315	80500
S	1.8628E-10	6.0653E-11	2.2331E-11	1.1919E-11	5.9782E-12
SSW	6.8026E-11	2.2149E-11	8.1548E-12	4.3525E-12	2.1831E-12
SW	6.7576E-11	2.2002E-11	8.1008E-12	4.3237E-12	2.1686E-12
WSW	9.4606E-11	3.0803E-11	1.1341E-11	6.0532E-12	3.0361E-12
W	1.2006E-10	3.9090E-11	1.4392E-11	7.6817E-12	3.8530E-12
WNW	1.2952E-10	4.2171E-11	1.5527E-11	8.2871E-12	4.1566E-12
NW	1.3876E-10	4.5178E-11	1.6634E-11	8.8780E-12	4.4530E-12
NNW	1.1826E-10	3.8504E-11	1.4176E-11	7.5664E-12	3.7951E-12
N	2.0408E-10	6.6446E-11	2.4464E-11	1.3057E-11	6.5493E-12
NNE	1.2276E-10	3.9971E-11	1.4716E-11	7.8547E-12	3.9397E-12
NE	1.1555E-10	3.7624E-11	1.3852E-11	7.3935E-12	3.7084E-12
ENE	1.0362E-10	3.3737E-11	1.2421E-11	6.6296E-12	3.3253E-12
E	1.1803E-10	3.8430E-11	1.4149E-11	7.5520E-12	3.7879E-12
ESE	1.2839E-10	4.1804E-11	1.5391E-11	8.2150E-12	4.1204E-12
SE	1.1285E-10	3.6744E-11	1.3528E-11	7.2205E-12	3.6216E-12
SSE	1.4304E-10	4.6571E-11	1.7147E-11	9.1518E-12	4.5903E-12

DIRECTION - SECTOR

N - A	E - E	S - J	W - N
NNE - B	ESE - F	SSW - K	WNW - P
NE - C	SE - G	SW - L	NW - Q
ENE - D	SSE - H	WSW - M	NNW - R

Current D/Q = 3.33E-08 1/m² in Sector A

RADIOACTIVE GASEOUS WASTE SAMPLING AND ANALYSIS PROGRAM

Gaseous Release Type	Frequency	Minimum Analysis Frequency	Type of Activity Analysis	Lower Limit of Detection ($\mu\text{Ci/ml}$)
a. Waste Gas Storage Tank	P Each Tank Grab Sample	P Each Tank	Principal Gamma Emitters ^a	1×10^{-4}
b. Containment Purge	P Each Purge Grab Sample ^b	P Each Purge ^b	Principal Gamma Emitters ^a	1×10^{-4}
			H-3	1×10^{-6}
c. Condenser Evacuation System and Gland Seal Exhaust*	W Grab Sample ^b	M ^b Particulate Sample	Principal Gamma Emitters ^a	1×10^{-4}
		M ^b	H-3	1×10^{-6}
		M ^b Iodine Adsorbing/Media	I-131	1×10^{-12}
	Continuous ^d	Noble Gas Monitor	Noble Gases ^c	1×10^{-6}
d. Auxiliary Building Vent	Continuous ^d	W ^c Iodine Adsorbing/Media	I-131	1×10^{-12}
	Continuous ^d	W ^c Particulate Sample	Principal Gamma Emitters ^a	1×10^{-11}
	Continuous ^d	M Composite Particulate Sample	Gross Alpha	1×10^{-11}
	Continuous ^d	M Composite	H-3	1×10^{-6}
	Continuous ^d	Q Particulate Sample	Sr-89, Sr-90	1×10^{-11}
	Continuous ^d	Noble Gas Monitor	Noble Gases	1×10^{-6}

PLANT LIQUID EFFLUENT PARAMETERS

SYSTEM	COMPONENTS		CAPACITY (EACH)	FLOW RATE (EACH)
	TANKS	PUMPS		
I <u>Waste Disposal System</u>				
+ Chemical Drain Tank	1	1	600 GAL.	20 GPM
+ Laundry & Hot Shower Tanks	2	1	600 GAL.	20 GPM
+ Monitor Tanks	4	2	21,600 GAL.	150 GPM
+ Waste Holdup Tanks	2		25,000 GAL.	
+ Waste Evaporators	3			30 GPM
+ Waste Evaporator Condensate Tanks	2	2	6,450 GAL.	150 GPM
II <u>Steam Generator Blowdown and Blowdown Treatment Systems</u>				
+ Start-up Flash Tank (Vented)	1		1,800 GAL.	500 GPM
+ Normal Flash Tank (Not Vented)	1		525 GAL.	100 GPM
+ Blowdown Treatment Pump		1		60 GPM
III <u>Essential Service Water System</u>				
+ Water Pumps		4		10,000 GPM
+ Containment Spray Heat Exchanger Outlet		4		3,300 GPM
IV <u>Circulating Water Pumps</u>				
		3 (Unit 1)		230,000 GPM
		4 (Unit 2)		

* Nominal values

