

Trojan Nuclear Plant

Radioactive Effluent Release Report for 1995

PORTLAND GENERAL ELECTRIC COMPANY

PGE-1065-95

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Trojan Nuclear Plant
Docket 50-344
License NPF-1

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ANNUAL RADIOACTIVE
EFFLUENT RELEASE REPORT
of
TROJAN NUCLEAR PLANT
for 1995

Docket 50-344
License NPF-1

PORTLAND GENERAL ELECTRIC COMPANY
121 S. W. Salmon Street
Portland, Oregon 97204

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
of TROJAN NUCLEAR PLANT
for 1995

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
	TABLE OF CONTENTS	i
	SUMMARY	1
1.	EFFLUENT AND WASTE DISPOSAL REPORT	3
2.	OFFSITE RADIATION DOSES	24
3.	METEOROLOGICAL DATA	91
4.	CHANGES TO THE OFFSITE DOSE CALCULATION MANUAL	92
5.	ASSESSMENT OF DOSES WITHIN THE UNRESTRICTED AREA BOUNDARY	93
6.	DIRECT RADIATION DOSES FROM THE FACILITY	95

RADIOACTIVE EFFLUENT RELEASE REPORT SUMMARY

The Annual Radioactive Effluent Release Report for the Trojan Nuclear Plant for 1995 is submitted in accordance with Title 10 of the Code of Federal Regulations, Part 50.36(a), and Facility Operating License NPF-1. The report is divided into six sections: (1) effluent and waste disposal report; (2) offsite radiation doses; (3) meteorological data; (4) changes to the Offsite Dose Calculation Manual (ODCM); (5) assessment of doses within the unrestricted area boundary; and (6) direct radiation doses from the facility.

Requirement

Trojan Nuclear Plant Possession Only License NPF-1, Appendix A, Technical Specification 5.8.1.3, "Annual Radioactive Effluent Release Report," requires:

The Annual Radioactive Effluent Release Report covering the activities of the unit shall be submitted in accordance with 10 CFR 50.36a. The report shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit. The material provided shall be consistent with the objectives outlined in the ODCM and Process Control Program.

Offsite Dose Calculation Manual Control 5.1.2 requires:

The Radioactive Effluent Release Reports shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit as outlined in Regulatory Guide 1.21 (Rev. 1), "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," with data summarized on a quarterly basis following the format of Appendix B thereof.

The Radioactive Effluent Release Report shall include an assessment of the radiation doses from radioactive effluents to individuals due to their activities inside the UNRESTRICTED AREA boundary during the report period. All assumptions used in making these assessments (e.g., specific activity, exposure time and location) shall be included in these reports.

The Radioactive Effluent Release Report shall include a copy of all licensee event reports required by Controls 3.2.1.1 and 3.2.2.1.

The Radioactive Effluent Release Report shall include an assessment of radiation doses from the radioactive liquid and gaseous effluents released from the unit during each calendar quarter as outlined in Regulatory Guide 1.21. In addition, the UNRESTRICTED AREA boundary maximum noble gas gamma air and beta air doses shall be evaluated. The meteorological conditions concurrent with the releases of effluents shall be used for

determining the gaseous pathway doses. The assessment of radiation doses shall be performed in accordance with Part II of the ODCM

Title 10 of the Code of Federal Regulations, Part 50.36a(2) requires:

Each licensee shall submit a report to the Commission annually that specifies the quantity of each of the principal radionuclides released to unrestricted areas in liquid and in gaseous effluents during the previous 12 months of operation, including any other information as may be required by the Commission to estimate maximum potential annual radiation doses to the public resulting from effluent releases. The report must be submitted as specified in §50.4, and the time between submission of the reports must be no longer than 12 months. If quantities of radioactive materials released during the reporting period are significantly above design objectives, the report must cover this specifically. On the basis of these reports and any additional information the Commission may obtain from the licensee or others, the Commission may require the licensee to take action as the Commission deems appropriate.

Report

Data for the period January 1, 1995, through December 31, 1995, have been included.

No licensee event reports required by ODCM Controls 3.2.1.1 and 3.2.2.1 were submitted during 1995.

1. EFFLUENT AND WASTE DISPOSAL REPORT

This section contains a summary of the liquid and gaseous release limits; a list of the maximum permissible concentrations of the isotopes released; a summary of batch and abnormal release data; a summary of total liquid and gaseous releases; listings of isotopes released classified by pathway, gaseous or liquid, and type, continuous or batch; and a summary of solid radioactive waste shipments. This section represents releases during the period January 1, 1995, through December 31, 1995. The information for January 1, 1995, through December 31, 1995, is presented in Tables 1-1 through 1-15.

The "MDA" notation used in the following data tables indicates that no detectable activity was found when samples were analyzed using counting techniques which ensure compliance with the "Lower Limit of Detection" (LLD), values of ODCM Tables 4.2-1 and 4.2-2. The referenced LLD specifications are not used as limiting values for reporting activity; all measurable activity is reported. Gamma emitting isotopes, isotopes with measurable activity, together with those isotopes specified in ODCM Tables 4.2-1 and 4.2-2 are reported.

Liquids

There were 17 discharges with one abnormal release of Tritium to the storm drains during 1995.

Gaseous

Gaseous activity is assumed to be Kr 85 escaping from micropores in the fuel cladding. Other gaseous isotopes are gone due to their short half-lives. Tritium releases were from spent fuel pool water evaporation and should remain relatively constant with small variations due to seasonal temperature and humidity changes.

PRM-6 for condenser off-gas remains deenergized following plant closure.

PRM-1 monitors the containment purge releases.

PRM-2 currently monitors all gaseous releases from the Auxiliary/Fuel Building.

No unplanned gaseous releases occurred during 1995.

The following terms are used:

\overline{K}_γ = Average total body dose factor due to gamma emissions

\overline{L}_β = Average skin dose factor due to beta emissions

\overline{M}_β = Average air dose factor due to beta emissions

\overline{N}_γ = Average air dose factor due to gamma emissions

\overline{R}_γ = Average dose factor for nuclides other than noble gases at the controlling exposure locations

TABLE 1-1

SUPPLEMENTAL INFORMATION

January 1, 1995, through December 31, 1995

CONTROL LIMITSFission and Activation
Gas Release Rate Limits

<u>Unit</u>	<u>First</u> <u>Quarter</u>	<u>Second</u> <u>Quarter</u>	<u>Third</u> <u>Quarter</u>	<u>Fourth</u> <u>Quarter</u>
-------------	--------------------------------	---------------------------------	--------------------------------	---------------------------------

1. ODCM 3.2.2.1(a), Instantaneous

$$Q_{TV} \leq \frac{1}{2.0K_V}$$

Ci/sec	2.38E+0	2.38E+0	2.38E+0	2.38E+0
--------	---------	---------	---------	---------

$$Q_{TV} \leq \frac{1}{0.33(\bar{L}_V + 1.1\bar{N}_V)}$$

Ci/sec	1.71E-1	1.71E-1	1.71E-1	1.71E-1
--------	---------	---------	---------	---------

2. ODCM 3.2.2.2, Quarterly Average

$$Q_{TV} \leq \frac{1}{50\bar{N}_V}$$

Ci/sec	9.09E-2	9.09E-2	9.09E-2	9.09E-2
--------	---------	---------	---------	---------

$$Q_{TV} \leq \frac{1}{25\bar{M}_V}$$

Ci/sec	1.54E-3	1.54E-3	1.54E-3	1.54E-3
--------	---------	---------	---------	---------

3. ODCM 3.2.2.4, Quarterly Average
Requiring Use of the Gaseous
Radwaste Treatment System

$$Q_{TV} \leq \frac{1}{100\bar{N}_V}$$

Ci/sec	4.55E-2	4.55E-2	4.55E-2	4.55E-2
--------	---------	---------	---------	---------

$$Q_{TV} \leq \frac{1}{50\bar{M}_V}$$

Ci/sec	7.69E-4	7.69E-4	7.69E-4	7.69E-4
--------	---------	---------	---------	---------

TABLE 1-2

SUPPLEMENTAL INFORMATION

January 1, 1995, through December 31, 1995

CONTROL LIMITS

Gaseous Tritium, and Particulates
With > 8 Day T1/2 Limits

	<u>Unit</u>	<u>First</u> <u>Quarter</u>	<u>Second</u> <u>Quarter</u>	<u>Third</u> <u>Quarter</u>	<u>Fourth</u> <u>Quarter</u>
1. ODCM 3.2.2.1(b), Instantaneous					
$Q_v \leq \frac{1}{0.67\bar{R}_i}$	Ci/sec	6.97E-3	6.97E-3	6.97E-3	6.97E-3
2. ODCM 3.2.2.3, Quarterly Average					
$Q_v < \frac{1}{100\bar{R}_i}$	Ci/sec	4.67E-5	4.67E-5	4.67E-5	4.67E-5
3. ODCM 3.2.2.4, Quarterly Average Requiring Use of the Ventilation Exhaust Treatment System					
$Q_v < \frac{1}{200\bar{R}_i}$	Ci/sec	2.34E-5	2.34E-5	2.34E-5	2.34E-5

TABLE 1-3

SUPPLEMENTAL INFORMATION

January 1, 1995, through December 31, 1995

CONTROL LIMITS

- | | | |
|----|--|--|
| 1. | ODCM 3.2.1.1
Instantaneous | Instantaneous discharge concentrations less than the maximum permissible concentrations listed 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 is limited to 6×10^{-4} $\mu\text{Ci/ml}$ total activity. |
| 2. | ODCM 3.2.1.2
Quarterly Average | Gross release limit of 2.5 Ci per quarter excluding tritium and dissolved noble gases. If this limit is exceeded, cumulative dose due to liquid effluents will be limited to 1.5 mrem to the whole body and to 2.5 mrem to any organ, using isotope specific methodology in the Plant Offsite Dose Calculation Manual (ODCM). |
| 3. | ODCM 3.2.1.3
Quarterly Average
Requiring Use of the Liquid
Radwaste Treatment
System | The liquid radwaste treatment system shall be maintained and used when activity discharged (excluding tritium and dissolved noble gases) would exceed 1.25 Ci/Qtr. |
| 4. | Tech. Spec. 5.7.2.6
Storage Tank Radioactivity
Limit | The quantity of radioactive material contained in all outdoor liquid radwaste tanks that are not surrounded by liners, dikes, or walls capable of holding the tanks' contents and that do not have tank overflows and surrounding area drains connected to the liquid radwaste treatment system is less than limits of 10 CFR 20, Appendix B, at the nearest potable water supply and the nearest surface water supply in an unrestricted area, in the event of an uncontrolled release of the tanks' contents. For temporary storage tanks, a limit of 10 curies, excluding tritium and dissolved or entrained noble gases may be used. |
-

TABLE 1-4**SUPPLEMENTAL INFORMATION**

January 1, 1995, through December 31, 1995

MAXIMUM PERMISSIBLE CONCENTRATIONS (MPC)**Liquid**

(10 CFR 20, Appendix B, Table II, Col. 2)

<u>Isotope</u>	<u>MPC</u> <u>(μCi/cc)</u>	<u>Isotope</u>	<u>MPC</u> <u>(μCi/cc)</u>
Fluorine 18	8×10^{-4}	Iodine 131	3×10^{-7}
Chromium 51	2×10^{-3}	Iodine 132	8×10^{-6}
Manganese 54	1×10^{-4}	Iodine 133	1×10^{-6}
Iron 55	8×10^{-4}	Tellurium 132	2×10^{-5}
Cobalt 57	4×10^{-4}	Cesium 134	9×10^{-6}
Cobalt 58	9×10^{-5}	Cesium 137	2×10^{-5}
Iron 59	5×10^{-5}	Cesium 138	3×10^{-6}
Cobalt 60	3×10^{-5}	Barium 140	2×10^{-5}
Strontium 89	3×10^{-6}	Lanthanum 140	2×10^{-5}
Strontium 90	3×10^{-7}	Cerium 141	9×10^{-5}
Zirconium 95	6×10^{-5}	Cerium 144	1×10^{-5}
Niobium 95	1×10^{-4}	Tungstun 187	6×10^{-5}
Molybdenum 99	4×10^{-5}	Alpha	3×10^{-8}
Technetium 99m	3×10^{-3}	Unidentified	3×10^{-8}
Ruthenium 103	8×10^{-5}	Tritium	3×10^{-3}
Ruthenium 106	1×10^{-5}	Krypton 85m	2×10^{-4}
Silver 110m	3×10^{-5}	Krypton 87	2×10^{-4}
Tin 113	8×10^{-5}	Krypton 88	2×10^{-4}
Antimony 124	2×10^{-5}	Xenon 131m	2×10^{-4}
Antimony 125	1×10^{-4}	Xenon 133	2×10^{-4}
Antimony 127	3×10^{-6}	Xenon 133m	2×10^{-4}
		Xenon 135	2×10^{-4}
		Xenon 135m	2×10^{-4}

Gaseous

Gaseous MPCs are not used in effluent calculations at Trojan.

TABLE 1-5

SUPPLEMENTAL INFORMATION

January 1, 1995, through December 31, 1995

AVERAGE ENERGY

Effluent release limits are not based upon \bar{E} , hence, reporting \bar{E} is not required.

MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

Gaseous Releases

Fission and Activation Gases: Gamma spectrometric analysis of gaseous grab samples define radionuclide distribution at least monthly on monitored gaseous release points. Using the known nuclide distributions and process radiation monitor readings, the actual quantities of gaseous releases are calculated.

Particulates: Weekly composite filter samples are analyzed by gamma spectroscopy to determine the concentration of particulate isotopes. Weekly composite samples are analyzed for alpha-emitting isotopes by counting with a gas flow proportional counter. Quarterly composite filters are analyzed for Sr-89/90 using gas proportional beta counting and chemical separation techniques when necessary.

Tritium: Tritium is collected on dry silica gel in monthly composite samples and counted using liquid scintillation spectroscopy.

Liquid Releases

Fission and Activation Products: Gamma spectrometric analysis of each batch is performed. Monthly and quarterly composites are prepared for batch releases for specified activity determinations.

Tritium: Monthly composite samples are distilled and deionized as necessary to remove contamination and counted by liquid scintillation techniques.

Dissolved and Entrained Gases: Gaseous isotopes are determined by gamma spectrometric analysis of each batch.

TABLE 1-6

SUPPLEMENTAL INFORMATION

January 1, 1995, through December 31, 1995

BATCH RELEASES

	<u>Unit</u>	<u>1-1-95 to 6-30-95</u>		<u>7-1-95 to 12-31-95</u>	
		<u>Liquid</u>	<u>Gaseous</u>	<u>Liquid</u>	<u>Gaseous</u>
Number of Batch Releases		8	0	9	0
Total time period for Batch Releases	Hours	30.69	NA	60.79	NA
Maximum time period for Batch Releases	Hours	6.67	NA	11.58	NA
Average time period for Batch Releases	Hours	3.84	NA	6.75	NA
Minimum time period for Batch Releases	Hours	2.27	NA	2.83	NA
Average dilution flow during Batch Releases	GPM	14288	NA	13933	NA

ABNORMAL RELEASES

Number of Abnormal Releases		1	0	0	0
Total Activity Released	Ci	1.232E-03	0	0	0

TABLE 1-7**SUPPLEMENTAL INFORMATION**

January 1, 1995, through December 31, 1995

ESTIMATION OF TOTAL PERCENT ERROR

The estimated total error is calculated as follows:

$$\text{Total Percent Error} = (E_1^2 + E_2^2 + E_3^2 + \dots E_n^2)^{\frac{1}{2}}$$

Where E_n = Percent error associated with each contributing parameter.

The following values (percent) were used for error calculations:

GASEOUS EFFLUENTS

	<u>Fission & Act Gases</u>	<u>Particu- lates</u>	<u>Tritium</u>
Sample Counting Error	25	25	25
Counting System Calibration Error	10	10	10
Counting System Source Error	5	5	5
Temperature/Volume Correction Error	20	NA	NA
Process Flow Measuring Device	10	10	10
Sample Flow Measuring Device	NA	10	10
Plateout Error	NA	10	NA

LIQUID EFFLUENTS

	<u>Fission & Act Products</u>	<u>Tritium</u>	<u>Dissolved & Entr. Gases</u>	<u>Gross Alpha</u>
Sample Counting Error	25	25	25	25
Counting System Calibration Error	10	10	10	10
Counting System Source Error	5	5	5	5
Process Flow Measuring Device	10	10	10	10
Sample Flow Measuring Device	10	10	10	10

TABLE 1-8

Sheet 1 of 2

**GASEOUS EFFLUENTS
SUMMATION OF RELEASES**

January 1, 1995, through December 31, 1995

FISSION AND ACTIVATION GASES

	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Estimated Error (%)
Total Activity Released	Ci	6.01E+0	1.49E+0	1.58E+0	2.13E+0	+3.5E+1
Average Release Rate for Quarter	$\mu\text{Ci/sec}$	7.58E-1	1.88E-1	2.00E-1	2.68E-1	
Percent of Limit:						
ODCM 3.2.2.1(a) - Instantaneous	%	1.76E-3	3.44E-4	1.50E-3	1.21E-3	
ODCM 3.2.2.2 - Quarterly Average	%	4.93E-2	1.22E-2	1.30E-2	1.74E-2	
ODCM 3.2.2.4 - Quarterly Average Requiring Processing	%	9.86E-2	2.45E-2	2.60E-2	3.49E-2	

PARTICULATES

Total with Half-lives >8 days	Ci	MDA	MDA	MDA	MDA	+3.2E+1
Average Release Rate for Quarter	$\mu\text{Ci/sec}$	NA	NA	NA	NA	
Total Gross Alpha Released	Ci	MDA	MDA	MDA	MDA	

TABLE 1-8

Sheet 2 of 2

GASEOUS EFFLUENTS
SUMMATION OF RELEASES

January 1, 1995, through December 31, 1995

	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Estimated Error (%)
<u>TRITIUM</u>						
Total Released	Ci	2.09E+1	2.15E+1	9.34E+0	4.60E+0	+3.1E+1
Average Release Rate for Quarter	μCi/sec	2.63E+0	2.71E+0	1.18E+0	5.79E-1	
<u>PARTICULATES WITH > 8 DAY T1/2 AND TRITIUM</u>						
Total Released	Ci	2.09E+1	2.15E+1	9.34E+0	4.60E+0	+3.2E+1
Average Release Rate for Quarter	μCi/sec	2.63E+0	2.71E+0	1.18E+0	5.79E-1	
Percent of Limit						
ODCM 3.2.2.1(b) Instantaneous	%	3.78E-2	3.89E-2	1.69E-2	8.31E-3	
ODCM 3.2.2.3 Quarterly Average	%	5.64E+0	5.81E+0	2.52E+0	1.24E+0	
ODCM 3.2.2.4 Quarterly Average Requiring Processing	%	1.13E+1	1.16E+1	5.04E+0	2.48E+0	

TABLE 1-9

Sheet 1 of 2

GASEOUS EFFLUENTS
GROUND LEVEL RELEASES

January 1, 1995, through December 31, 1995

NUCLIDES RELEASED

Fission Gases	Unit	Continuous Mode				Batch Mode ^(a)
		First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Krypton 85m	Ci	MDA	MDA	MDA	MDA	NA
Krypton 85	Ci	6.01E+0	1.49E+0	1.58E+0	2.13E+0	NA
Krypton 87	Ci	MDA	MDA	MDA	MDA	NA
Krypton 88	Ci	MDA	MDA	MDA	MDA	NA
Xenon 131m	Ci	MDA	MDA	MDA	MDA	NA
Xenon 133m	Ci	MDA	MDA	MDA	MDA	NA
Xenon 133	Ci	MDA	MDA	MDA	MDA	NA
Xenon 135m	Ci	MDA	MDA	MDA	MDA	NA
Xenon 135	Ci	MDA	MDA	MDA	MDA	NA
Xenon 137	Ci	MDA	MDA	MDA	MDA	NA
Xenon 138	Ci	MDA	MDA	MDA	MDA	NA
Argon 41	Ci	MDA	MDA	MDA	MDA	NA
TOTAL FOR QUARTER	Ci	6.01E+0	1.49E+0	1.58E+0	2.13E+0	NA

^(a) Information is for all four quarters of 1995.

TABLE 1-9

Sheet 2 of 2

GASEOUS EFFLUENTS
GROUND LEVEL RELEASES

January 1, 1995, through December 31, 1995

NUCLIDES RELEASED		Continuous Mode				Batch Mode ^[a]
Particulates > 8 Day T1/2	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Manganese 54	Ci	MDA	MDA	MDA	MDA	NA
Cobalt 58	Ci	MDA	MDA	MDA	MDA	NA
Iron 59	Ci	MDA	MDA	MDA	MDA	NA
Cobalt 60	Ci	MDA	MDA	MDA	MDA	NA
Zinc 65	Ci	MDA	MDA	MDA	MDA	NA
Strontium 89	Ci	MDA	MDA	MDA	MDA	NA
Strontium 90	Ci	MDA	MDA	MDA	MDA	NA
Niobium 95	Ci	MDA	MDA	MDA	MDA	NA
Molybdenum 99	Ci	MDA	MDA	MDA	MDA	NA
Ruthenium 106	Ci	MDA	MDA	MDA	MDA	NA
Cesium 134	Ci	MDA	MDA	MDA	MDA	NA
Cesium 137	Ci	MDA	MDA	MDA	MDA	NA
Barium 140	Ci	MDA	MDA	MDA	MDA	NA
Cerium 141	Ci	MDA	MDA	MDA	MDA	NA
Cerium 144	Ci	MDA	MDA	MDA	MDA	NA
Neodymium 147	Ci	MDA	MDA	MDA	MDA	NA
Cobalt 57	Ci	MDA	MDA	MDA	MDA	NA
TOTAL FOR QUARTER	Ci	MDA	MDA	MDA	MDA	NA

^[a] Information is for all four quarters of 1995.

TABLE 1-10

GASEOUS EFFLUENTS
ELEVATED RELEASES

January 1, 1995, through December 31, 1995

No Elevated Release Points

TABLE 1-11GASEOUS EFFLUENTS
LOWER LEVEL OF DETECTION

January 1, 1995, through December 31, 1995

<u>NUCLIDE</u>	<u>UNIT</u>	<u>CONTINUOUS RELEASE</u>	<u>BATCH RELEASE</u>
Krypton 85m	μCi/ml	1.00E-6	1.00E-4
Krypton 85	μCi/ml	1.00E-6	1.00E-4
Krypton 87	μCi/ml	1.00E-6	1.00E-4
Krypton 88	μCi/ml	1.00E-6	1.00E-4
Xenon 131m	μCi/ml	1.00E-6	1.00E-4
Xenon 133m	μCi/ml	1.00E-6	1.00E-4
Xenon 133	μCi/ml	1.00E-6	1.00E-4
Xenon 135m	μCi/ml	1.00E-6	1.00E-4
Xenon 135	μCi/ml	1.00E-6	1.00E-4
Xenon 137	μCi/ml	1.00E-6	1.00E-4
Xenon 138	μCi/ml	1.00E-6	1.00E-4
Argon 41	μCi/ml	1.00E-6	1.00E-4
Manganese 54	μCi/ml	1.00E-11	1.00E-4
Cobalt 57	μCi/ml	1.00E-11	1.00E-4
Cobalt 58	μCi/ml	1.00E-11	1.00E-4
Cobalt 60	μCi/ml	1.00E-11	1.00E-4
Iron 59	μCi/ml	1.00E-11	1.00E-4
Zinc 65	μCi/ml	1.00E-11	1.00E-4
Strontium 89	μCi/ml	1.00E-6	1.00E-4
Strontium 90	μCi/ml	1.00E-6	1.00E-4
Niobium 95	μCi/ml	1.00E-11	1.00E-4
Molybdenum 99	μCi/ml	1.00E-11	1.00E-4
Ruthenium 106	μCi/ml	1.00E-11	1.00E-4
Cesium 134	μCi/ml	1.00E-11	1.00E-4
Cesium 137	μCi/ml	1.00E-11	1.00E-4
Barium 140	μCi/ml	1.00E-11	1.00E-4
Cerium 141	μCi/ml	1.00E-11	1.00E-4
Cerium 144	μCi/ml	1.00E-11	1.00E-4
Neodymium 147	μCi/ml	1.00E-11	1.00E-4
Unidentified	μCi/ml	1.00E-11	1.00E-4

TABLE 1-12**LIQUID EFFLUENTS
SUMMATION OF RELEASES**

Sheet 1 of 2

January 1, 1995, through December 31, 1995

FISSION AND ACTIVATION PRODUCTS

	<u>Unit</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>Estimated Error (%)</u>
Total Activity Released (excluding gases, tritium, and alpha)	Ci	3.43E-3	9.60E-2	4.15E-3	6.76E-3	+3.1E+1
Average Diluted Concentration	μCi/ml	5.76E-10	1.28E-8	5.53E-10	1.20E-9	
Percent of Limit						
ODCM 3.2.1.1 - Instantaneous	%	2.86E-2	2.29E+0	1.62E-2	7.55E-1	
ODCM 3.2.1.2 - Quarterly Limit	%	1.38E-1	3.85E+0	1.66E-1	2.71E-1	
ODCM 3.2.1.3 - Quarterly Limit Requiring Processing	%	2.75E-1	7.69E+0	3.33E-1	5.43E-1	

TRITIUM

Total Released	Ci	7.49E-1	1.53E+0	2.39E-1	3.35E-1	+3.1E+1
Average Diluted Concentration	μCi/ml	1.26E-7	2.04E-7	3.19E-8	5.93E-8	
Percent of MPC	%	4.19E-2	6.79E-3	1.06E-3	1.98E-3	

DISSOLVED AND ENTRAINED GASES

Total Activity Released	Ci	MDA	MDA	MDA	MDA	+3.1E+1
Average Diluted Concentration	μCi/ml	NA	NA	NA	NA	
Percent of MPC	%	NA	NA	NA	NA	

TABLE 1-12

LIQUID EFFLUENTS
SUMMATION OF RELEASES

Sheet 2 of 2

January 1, 1995, through December 31, 1995

GROSS ALPHA RADIOACTIVITY

	<u>Unit</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>Estimated Error (%)</u>
Total Activity Released	Ci	8.59E-6	1.88E-4	5.85E-6	1.54E-5	+3.1E+1
<u>UNDILUTED VOLUME OF WASTE RELEASES</u>	Liters	9.24E+4	2.68E+5	2.05E+5	1.30E+5	+5.0
<u>VOLUME OF DILUTION WATER</u>	Liters	5.96E+9	7.51E+9	7.50E+9	5.65E+9	+1.5E+1

TABLE 1-13

Sheet 1 of 2

LIQUID EFFLUENTS

January 1, 1995, through December 31, 1995

NUCLIDES RELEASED

	Unit	Continuous Mode ^[a]	Batch Mode			
			First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Chromium 51	Ci	NA	MDA	MDA	MDA	MDA
Manganese 54	Ci	NA	1.84E-5	6.57E-4	1.35E-4	7.76E-5
Iron 55	Ci	NA	2.20E-3	1.36E-2	8.74E-4	2.02E-3
Cobalt 57	Ci	NA	2.96E-6	5.87E-5	MDA	MDA
Cobalt 58	Ci	NA	MDA	MDA	4.38E-5	MDA
Iron 59	Ci	NA	MDA	MDA	MDA	MDA
Cobalt 60	Ci	NA	9.54E-4	1.83E-2	1.87E-3	2.61E-3
Zinc 65	Ci	NA	MDA	MDA	MDA	MDA
Strontium 89	Ci	NA	MDA	9.58E-3	MDA	4.63E-6
Strontium 90	Ci	NA	2.24E-6	4.69E-2	6.57E-5	4.01E-5
Zirconium 95	Ci	NA	MDA	MDA	MDA	MDA
Niobium 95	Ci	NA	MDA	MDA	MDA	MDA
Molybdenum 99	Ci	NA	MDA	MDA	MDA	MDA
Rubidium 88	Ci	NA	MDA	MDA	MDA	MDA
Technetium 99m	Ci	NA	MDA	MDA	MDA	MDA
Ruthenium 103	Ci	NA	MDA	MDA	MDA	MDA
Ruthenium 106	Ci	NA	1.33E-4	2.17E-3	MDA	1.95E-4
Silver 110m	Ci	NA	2.11E-5	5.86E-5	MDA	2.88E-5
Tin 113	Ci	NA	MDA	MDA	MDA	MDA
Antimony 124	Ci	NA	MDA	MDA	MDA	3.25E-5
Antimony 125	Ci	NA	4.41E-5	6.79E-4	4.46E-5	4.45E-5
Iodine 131	Ci	NA	MDA	MDA	MDA	MDA
Iodine 132	Ci	NA	MDA	MDA	MDA	MDA
Tellurium 132	Ci	NA	MDA	MDA	MDA	MDA

^[a] Information is for all four quarters of 1995.

TABLE 1-13

Sheet 2 of 2

LIQUID EFFLUENTS

January 1, 1995, through December 31, 1995

	Unit	Continuous Mode ^[a]	Batch Mode			
			First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Iodine 133	Ci	NA	MDA	MDA	MDA	MDA
Cesium 134	Ci	NA	3.75E-6	2.91E-4	1.15E-4	1.34E-4
Cesium 137	Ci	NA	4.98E-5	3.32E-3	1.01E-3	1.56E-3
Barium 140	Ci	NA	MDA	MDA	MDA	MDA
Lanthanum 140	Ci	NA	MDA	MDA	MDA	MDA
Cerium 141	Ci	NA	MDA	MDA	MDA	MDA
Cerium 144	Ci	NA	MDA	3.97E-4	MDA	MDA
Tungsten 187	Ci	NA	MDA	MDA	MDA	MDA
Unidentified	Ci	NA	MDA	MDA	MDA	2.61E-5
Sodium 22	Ci	NA	MDA	1.96E-5	MDA	MDA
TOTAL	Ci	NA	3.43E-3	9.60E-2	4.15E-3	6.76E-3

NUCLIDES RELEASED

DISSOLVED AND ENTRAINED GASES

Krypton 85	Ci	NA	MDA	MDA	MDA	MDA
Krypton 88	Ci	NA	MDA	MDA	MDA	MDA
Xenon 131m	Ci	NA	MDA	MDA	MDA	MDA
Xenon 133m	Ci	NA	MDA	MDA	MDA	MDA
Xenon 133	Ci	NA	MDA	MDA	MDA	MDA
Xenon 135	Ci	NA	MDA	MDA	MDA	MDA
Xenon 138	Ci	NA	MDA	MDA	MDA	MDA
TOTAL	Ci	NA	MDA	MDA	MDA	MDA

^[a] Information for all four quarters of 1995.

TABLE 1-14

LIQUID EFFLUENTS
LOWER LEVEL OF DETECTION

January 1, 1995, through December 31, 1995

<u>LOWER LEVEL OF DETECTION</u>			
<u>NUCLIDE</u>	<u>UNIT</u>	<u>CONTINUOUS RELEASE</u>	<u>BATCH RELEASE</u>
Chromium 51	μCi/ml	5.00E-7	5.00E-7
Manganese 54	μCi/ml	5.00E-7	5.00E-7
Iron 55	μCi/ml	1.00E-6	1.00E-6
Cobalt 57	μCi/ml	5.00E-7	5.00E-7
Cobalt 58	μCi/ml	5.00E-7	5.00E-7
Iron 59	μCi/ml	5.00E-7	5.00E-7
Cobalt 60	μCi/ml	5.00E-7	5.00E-7
Zinc 65	μCi/ml	5.00E-7	5.00E-7
Rubidium 88	μCi/ml	5.00E-7	5.00E-7
Strontium 89	μCi/ml	5.00E-8	5.00E-8
Strontium 90	μCi/ml	5.00E-8	5.00E-8
Zirconium 95	μCi/ml	5.00E-7	5.00E-7
Niobium 95	μCi/ml	5.00E-7	5.00E-7
Molybdenum 99	μCi/ml	5.00E-7	5.00E-7
Technetium 99m	μCi/ml	5.00E-7	5.00E-7
Ruthenium 103	μCi/ml	5.00E-7	5.00E-7
Ruthenium 106	μCi/ml	5.00E-7	5.00E-7
Silver 110m	μCi/ml	5.00E-7	5.00E-7
Tin 113	μCi/ml	5.00E-7	5.00E-7
Antimony 124	μCi/ml	5.00E-7	5.00E-7
Antimony 125	μCi/ml	5.00E-7	5.00E-7
Iodine 131	μCi/ml	1.00E-6	1.00E-6
Iodine 132	μCi/ml	5.00E-7	5.00E-7
Tellurium 132	μCi/ml	5.00E-7	5.00E-7
Iodine 133	μCi/ml	5.00E-7	5.00E-7
Cesium 134	μCi/ml	5.00E-7	5.00E-7
Cesium 137	μCi/ml	5.00E-7	5.00E-7
Barium 140	μCi/ml	5.00E-7	5.00E-7
Lanthanum 140	μCi/ml	5.00E-7	5.00E-7
Cerium 141	μCi/ml	5.00E-7	5.00E-7
Cerium 144	μCi/ml	5.00E-7	5.00E-7
Tungsten 187	μCi/ml	5.00E-7	5.00E-7
Unidentified	μCi/ml	5.00E-8	5.00E-8
Krypton 85	μCi/ml	1.00E-5	1.00E-5
Krypton 88	μCi/ml	1.00E-5	1.00E-5
Xenon 131m	μCi/ml	1.00E-5	1.00E-5
Xenon 133m	μCi/ml	1.00E-5	1.00E-5
Xenon 133	μCi/ml	1.00E-5	1.00E-5
Xenon 135	μCi/ml	1.00E-5	1.00E-5
Xenon 138	μCi/ml	1.00E-5	1.00E-5

TABLE 1-15**SOLID WASTE AND IRRADIATED FUEL SHIPMENTS**

Sheet 1 of 2

January 1, 1995, through December 31, 1995

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not Irradiated Fuel) - Type of Waste		Activity During 1-1 to 6-30	Volume During 1-1 to 6-30	Activity During 7-1 to 12-31	Volume During 7-1 to 12-31	Estimated* Total Error (%)
1.	Spent Resin, Filters, Sludges, Evaporator Bottoms, etc.	0	0	0	0	NA
2.	Dry Compressible Waste, Contam- inated Equipment, etc.	1.57 Ci	268.23 m ³	1.27E+3	1093.8 m ³	2.5E+1
3.	Irradiated Components, Control Rods, etc.	0	0	0	0	NA
4.	Other	0	0	0	0	NA

*Basis: Instrument inaccuracies (portable and multi-channel analyzer)

ESTIMATE OF MAJOR NUCLIDE DISTRIBUTION BY TYPE OF WASTENuclide

1. N/A
2. See attached list
3. N/A
4. N/A

TABLE 1-15

Sheet 2 of 2

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

January 1, 1995, through December 31, 1995

SOLID WASTE DISPOSITIONNumber of ShipmentsMode of TransportationDestination

10 - 1/1/95 through 6/30/95
 10 - 7/1/95 through 12/31/95

Exclusive Use Truck

U.S. Ecology, Inc.
 P.O. Box 638
 Richland, WA 99352

IRRADIATED FUEL SHIPMENTSNumber of ShipmentsMode of TransportationDestination

0

NA

NA

ESTIMATE OF MAJOR NUCLIDE DISTRIBUTION BY TYPE OF WASTE

Nuclide	1-1-95 to 6-30-95		Nuclide	7-1-95 to 12-31-95	
	Percent	Curies		Percent	Curies
H-3	42.4	6.66E-1	H-3	<0.1	8.14E-1
C-14	40.1	6.30E-1	C-14	<0.1	9.28E-1
Mn-54	0.3	4.26E-3	Mn-54	2.2	2.88E+0
Fe-55	4.4	6.95E-2	Fe-55	22.0	2.88E+2
Co-60	6.4	1.00E-1	Co-60	59.0	7.74E+2
Ni-63	1.7	2.60E-2	Ni-63	11.3	1.48E+2
Sr-90	0.2	3.61E-3	Sr-90	0.4	5.72E+0
Ru-106	0.4	6.82E-3	Sb-125	2.1	1.73E+1
Sb-125	0.2	2.78E-3	Cs-134	<0.1	1.84E-3
Cs-134	0.2	2.82E-3	Cs-137	<0.1	2.52E-2
Cs-137	2.0	3.18E-2	Ce-144	0.1	1.76E+0
Ce-144	0.2	2.71E-3	Pu-238	<0.1	5.00E-1
Pu-238	<0.1	2.45E-4	Pu-239	<0.1	5.52E-1
Pu-239	<0.1	2.92E-4	Pu-241	2.5	3.31E+1
Pu-241	1.4	2.21E-2			
Total		1.57E+0	Total		1.27E+3

2. OFFSITE RADIATION DOSES

Offsite radiation doses from gaseous and liquid effluents for 1995 are presented in this section. Included are quarterly doses to individuals at locations of maximum exposure and quarterly doses to the 50-mile population. Doses are presented separately for batch and continuous releases from gaseous effluents.

For gaseous effluents, doses were calculated using conservative meteorological data. The highest χ/Q and D/Q values established for each receptor, from 1976 through 1994, were used to calculate population doses. All other doses due to gaseous effluents were conservatively calculated using meteorological data established for the site boundary.

TABLE 2-1

Sheet 1 of 2

PARAMETERS USED IN CALCULATING DOSES FROM GASEOUS EFFLUENTS
FIRST AND SECOND HALVES 1995

Parameter	Value
Accumulation and Decay Times (days)	
Harvest of leafy vegetables to consumption by man	1.0
Harvest of pasture grass to consumption by animals	0.0
Harvest of stored feed to consumption by animals	90.0
Harvest of produce to consumption by man	60.0
Animal butchering to consumption	20.0
Food ingestion by animal to milking	2.0
Accumulation time on ground	5,480.0
Human Consumption Rates (kg/yr)	
Leafy vegetables by adult	64.0
Produce by adult	456.0
Meat by adult	110.0
Milk by adult	310.0
Milk by infant	330.0
Breathing Rates (m ³ /yr)	
Adult	8,000.0
Infant	1,400.0
Animal Consumption Rates (kg/day)	
Animal feed by meat animal	50.0
Animal feed by milk cow	50.0
Animal feed by milk goat	6.0
Exposure Periods During Growing Season (days)	
Leafy vegetables	60.0
Pasture vegetation	30.0
Produce	60.0
Residential Structure Shielding Factor	0.7
Fraction of Particulates Initially Deposited on Leafy Vegetation	0.2
Fraction of Particulates Initially Deposited on Produce	0.2

TABLE 2-1

Sheet 2 of 2

PARAMETERS USED IN CALCULATING DOSES FROM GASEOUS EFFLUENTS

Parameter	Value
Fraction of Iodine Deposited on Leafy Vegetation	1.0
Fraction of Iodine Deposited on Produce	1.0
Surface Density of Soil for Root Zone (kg/m ²)	240.0
Field Decay Half Life (days)	14.0
Agricultural Productivity (kg/m ²)	
Leafy vegetables	2.0
Pasture grass	0.7
Produce	2.0
Period of Long-Term Buildup for Activity in Soil (days)	5,480.0
Fraction of Leafy Vegetables Grown in Garden of Interest	1.0
Fraction of Produce Grown in Garden of Interest	1.0
Fraction of Year Animal Grazes on Pasture	0.5
Fraction of Daily Feed that is Pasture Grass when Animal Grazes	1.0

TABLE 2-2

Sheet 1 of 3

PARAMETERS USED IN CALCULATING DOSES FROM LIQUID EFFLUENTS

Parameter	Value		Value	
	First Quarter 1995	Second Quarter 1995	Third Quarter 1995	Fourth Quarter 1995
Plant Dilution Flow Rate (gpm)	12,164	15,127	14,947	11,266
Columbia River Flow Rate (cfs)	193,117	374,293	155,507	205,777
Dilution Factors				
Drinking water	7,126	11,107	4,670	8,198
Swimming water	1,568	2,443	1,027	1,804
Aquatic biota	1,568	2,443	1,027	1,804
Shoreline sediment	1,568	2,443	1,027	1,804
Irrigation water	7,126	11,107	4,670	8,198
Milk and meat animal water	7,126	11,107	4,670	8,198
Decay Times (days)				
Discharge to drinking water	0.68	0.59	0.72	0.67
Discharge to swimming water	0.0	0.0	0.0	0.0
Discharge to aquatic biota consumption	1.0	1.0	1.0	1.0
Discharge to deposition on shoreline sediment	0.0	0.0	0.0	0.0
Discharge to irrigation water withdrawal	0.68	0.59	0.72	0.67
Discharge to milk and meat animal water withdrawal	0.68	0.59	0.72	0.67
Leafy vegetable harvest to consumption by man	1	1	1	1
Produce harvest to consumption by man	60	60	60	60
Stored feed harvest to consumption by animals	90	90	90	90
Pasture grass to consumption by animal's	0	0	0	0
Animal butchering to consumption	20	20	20	20
Food and water ingestion by cow/goat to milking	2	2	2	2

TABLE 2-2

Sheet 2 of 3

PARAMETERS USED IN CALCULATING DOSES FROM LIQUID EFFLUENTS

Parameter	Value		Value	
	First Quarter 1995	Second Quarter 1995	Third Quarter 1995	Fourth Quarter 1995
Accumulation Times (days)				
Shoreline sediment	5,480	5,480	5,480	5,480
Irrigated soil	5,480	5,480	5,480	5,480
Irrigated vegetables	60	60	60	60
Pasture grass	30	30	30	30
Adult Consumption Rates (kg/yr)				
Drinking water	730	730	730	730
Fish	21	21	21	21
Invertebrates (crayfish)	5	5	5	5
Irrigated leafy vegetables	64	64	64	64
Irrigated produce	456	456	456	456
Cow's milk from irrigated pastureland	310	310	310	310
Goat's milk from irrigated pastureland	310	310	310	310
Meat from irrigated pastureland	110	110	110	110
Annual Exposure Times (hr/yr)				
Swimming and boating	12	12	12	12
Shoreline activities	12	12	12	12
Irrigated pasture	2,190	2,190	2,190	2,190
Infant Consumption Rates (kg/yr)				
Drinking water	330	330	330	330
Cow's milk from irrigated pastureland	330	330	330	330
Fraction of Year Animals				
Graze on Pasture	0.5	0.5	0.5	0.5
Fraction of Year Crops are Irrigated	0.5	0.5	0.5	0.5
Field (Weathering) Half-Life (days)	14	14	14	14
Irrigation Rate (liters/m ² -hr)	0.104	0.104	0.104	0.104
Fractional Concentration of Water in Soil (g/g)	0.2	0.2	0.2	0.2

TABLE 2-2

Sheet 3 of 3

PARAMETERS USED IN CALCULATING DOSES FROM LIQUID EFFLUENTS

Parameter	Value		Value	
	First Quarter 1995	Second Quarter 1995	Third Quarter 1995	Fourth Quarter 1995
Fraction of Leafy Vegetables Grown in Garden of Interest	1	1	1	1
Fraction of Produce Grown in Garden of Interest	0.7	0.7	0.7	0.7
Irrigated Soil Self-Shielding Factor	2.5	2.5	2.5	2.5
Fraction of Isotope in Irrigation Water That is Initially Retained by Leafy Vegetables	0.25	0.25	0.25	0.25
Fraction of Isotope in Irrigation Water That is Initially Retained by Produce	0.25	0.25	0.25	0.25
Pasture Grass Yield (kg/m ²)	0.7	0.7	0.7	0.7
Vegetable Yield (kg/m ²)	2	2	2	2
Surface Density of Soil (kg/m ²)	240	240	240	240
Animal Consumption Rates (kg/day)				
Water by milk cow	60	60	60	60
Water by milk goat	8	8	8	8
Water by beef	50	50	50	50
Pasture vegetation by milk cow	50	50	50	50
Pasture vegetation by milk goat	6	6	6	6
Pasture vegetation by beef	50	50	50	50

TABLE 2-3

SUMMARY OF DOSES RESULTING FROM RADIOACTIVE RELEASES
IN LIQUID WASTES (MREM/YR) [MAXIMUM COMBINATION OF PATHWAYS:
AQUATIC PLUS IRRIGATION (GOAT OR COW MILK CONSUMPTION)]

1995

FIRST QUARTER 1995

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	9.91E-6	1.00E-5	1.23E-5	1.71E-5	2.03E-6	4.62E-6	5.77E-6	1.55E-5
TEEN	7.64E-6	7.85E-6	1.35E-5	1.31E-5	2.42E-6	5.57E-6	6.36E-6	1.68E-5
CHILD	5.92E-6	5.96E-6	1.72E-5	7.36E-6	2.26E-6	5.16E-6	5.89E-6	1.61E-5
INFANT	2.25E-6	2.25E-6	1.94E-6	2.15E-6	1.93E-6	2.18E-6	2.45E-6	4.60E-6

SECOND QUARTER 1995

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	3.01E-3	3.01E-3	1.16E-2	5.18E-4	9.04E-6	5.18E-5	1.29E-4	3.73E-4
TEEN	2.80E-3	2.80E-3	1.11E-2	4.45E-4	1.41E-5	6.67E-5	1.42E-4	4.00E-4
CHILD	3.64E-3	3.64E-3	1.46E-2	2.54E-4	4.81E-6	5.08E-5	1.22E-4	3.73E-4
INFANT	7.30E-4	7.30E-4	2.94E-3	4.08E-5	2.05E-6	9.21E-6	1.95E-5	6.98E-5

TABLE 2-3

Page 2 of 2

SUMMARY OF DOSES RESULTING FROM RADIOACTIVE RELEASES
IN LIQUID WASTES (MREM/YR) [MAXIMUM COMBINATION OF PATHWAYS
AQUATIC PLUS IRRIGATION (GOAT OR COW MILK CONSUMPTION)]

THIRD QUARTER 1995

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	1.85E-4	1.85E-4	2.14E-4	5.27E-5	2.71E-6	3.15E-5	9.05E-5	2.66E-4
TEEN	1.13E-4	1.14E-4	2.30E-4	3.87E-5	4.14E-6	3.98E-5	9.72E-5	2.83E-4
CHILD	5.76E-5	5.77E-5	3.04E-4	1.45E-5	1.56E-6	3.22E-5	8.67E-5	2.68E-4
INFANT	7.06E-6	7.06E-6	4.95E-5	1.29E-6	7.66E-7	6.07E-6	1.38E-5	5.00E-5

FOURTH QUARTER 1995

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	2.00E-4	2.00E-4	2.21E-4	4.26E-5	2.91E-6	3.61E-5	1.00E-4	2.93E-4
TEEN	1.20E-4	1.20E-4	2.40E-4	3.25E-5	4.44E-6	4.56E-5	1.08E-4	3.13E-4
CHILD	5.51E-5	5.52E-5	3.18E-4	1.40E-5	1.66E-6	3.71E-5	9.68E-5	2.98E-4
INFANT	6.27E-6	6.27E-6	5.04E-5	1.46E-6	8.11E-7	6.85E-6	1.56E-5	5.70E-5

TABLE 2-4

FIRST QUARTER 1995
 POPULATION DOSE (50-MILE) FROM
 LIQUID EFFLUENTS
 (MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	1.6E-06	1.3E-06
FISH CONSUMPTION	4.5E-04	3.7E-06
INVERTEBRATE CONSUMPTION	5.8E-07	4.1E-09
EXPOSURE TO CONTAMINATED SEDIMENT	8.8E-07	8.8E-07
SWIMMING AND BOATING	4.3E-09	4.3E-09
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	4.6E-09	2.3E-09
PRODUCE CONSUMPTION	2.3E-08	1.1E-08
MEAT CONSUMPTION	1.7E-07	8.3E-08
MILK CONSUMPTION	1.2E-06	8.2E-07
EXPOSURE TO CONTAMINATED SOIL	7.4E-08	7.4E-08
TOTAL	4.5E-04	6.9E-06
AVERAGE DOSE (MREM/PERSON)	2.2E-07	3.4E-09

TABLE 2-5

SECOND QUARTER 1995
 POPULATION DOSE (50-MILE) FROM
 LIQUID EFFLUENTS
 (MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	7.7E-04	1.4E-06
FISH CONSUMPTION	8.6E-02	4.8E-06
INVERTEBRATE CONSUMPTION	2.7E-04	6.4E-09
EXPOSURE TO CONTAMINATED SEDIMENT	9.2E-06	9.2E-06
SWIMMING AND BOATING	4.2E-08	4.2E-08
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	8.2E-06	2.4E-09
PRODUCE CONSUMPTION	4.0E-05	1.2E-08
MEAT CONSUMPTION	1.9E-05	9.1E-08
MILK CONSUMPTION	2.7E-04	9.2E-07
EXPOSURE TO CONTAMINATED SOIL	7.8E-07	7.8E-07
TOTAL	8.7E-02	1.7E-05
AVERAGE DOSE (MREM/PERSON)	4.2E-05	8.4E-09

TABLE 2-6

THIRD QUARTER 1995
 POPULATION DOSE (50-MILE) FROM
 LIQUID EFFLUENTS
 (MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	5.1E-06	5.3E-07
FISH CONSUMPTION	1.2E-02	1.5E-06
INVERTEBRATE CONSUMPTION	8.1E-06	1.6E-09
EXPOSURE TO CONTAMINATED SEDIMENT	2.6E-06	2.6E-06
SWIMMING AND BOATING	1.1E-08	1.1E-08
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	4.9E-08	8.9E-10
PRODUCE CONSUMPTION	2.4E-07	4.4E-09
MEAT CONSUMPTION	4.7E-07	3.3E-08
MILK CONSUMPTION	1.0E-05	3.3E-07
EXPOSURE TO CONTAMINATED SOIL	2.2E-07	2.2E-07
TOTAL	1.2E-02	5.2E-06
AVERAGE DOSE (MREM/PERSON)	5.6E-06	2.5E-09

TABLE 2-7

FOURTH QUARTER 1995
 POPULATION DOSE (50-MILE) FROM
 LIQUID EFFLUENTS
 (MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	4.0E-06	5.6E-07
FISH CONSUMPTION	1.3E-02	1.6E-06
INVERTEBRATE CONSUMPTION	8.0E-06	1.7E-09
EXPOSURE TO CONTAMINATED SEDIMENT	2.8E-06	2.8E-06
*SWIMMING AND BOATING	1.1E-08	1.1E-08
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	3.7E-08	9.5E-10
PRODUCE CONSUMPTION	1.8E-07	4.7E-09
MEAT CONSUMPTION	5.1E-07	3.5E-08
MILK CONSUMPTION	1.1E-05	3.5E-07
EXPOSURE TO CONTAMINATED SOIL	2.4E-07	2.4E-07
TOTAL	1.3E-02	5.6E-06
AVERAGE DOSE (MREM/PERSON)	6.2E-06	2.7E-09

TABLE 2-8

**BATCH RELEASES
FIRST, SECOND, THIRD, AND FOURTH QUARTERS 1995**

**DOSES FROM NOBLE GASES AT
SITE BOUNDARY AND RESIDENCE OF
HIGHEST CONCENTRATION**

	Site Boundary ^[a]	Residence ^[b]
Beta Air Dose (mrad)	0.00E+00	0.00E+00
Gamma Air Dose (mrad)	0.00E+00	0.00E+00
Beta + Gamma Skin Dose (mrem)	-	0.00E+00
Gamma Total Body Dose (mrem)	-	0.00E+00

[a] All Sectors

[b] All Sectors

TABLE 2-9

CONTINUOUS RELEASES
FIRST, SECOND, THIRD, AND FOURTH QUARTERS 1995

DOSES FROM NOBLE GASES AT
SITE BOUNDARY AND RESIDENCE OF
HIGHEST CONCENTRATION

	Site	
<u>FIRST QUARTER 1995</u>	Boundary ^[a]	Residence ^[b]
Beta Air Dose (mrad)	4.65E-03	4.65E-03
Gamma Air Dose (mrad)	4.10E-05	2.87E-05
Beta + Gamma Skin Dose (mrem)	-	3.23E-03
Gamma Total Body Dose (mrem)	-	2.69E-05
 <u>SECOND QUARTER 1995</u>		
Beta Air Dose (mrad)	1.15E-03	1.15E-03
Gamma Air Dose (mrad)	1.02E-05	7.12E-06
Beta + Gamma Skin Dose (mrem)	-	8.00E-04
Gamma Total Body Dose (mrem)	-	6.66E-06
 <u>THIRD QUARTER 1995</u>		
Beta Air Dose (mrad)	1.22E-03	1.22E-03
Gamma Air Dose (mrad)	1.08E-05	7.55E-06
Beta + Gamma Skin Dose (mrem)	-	8.45E-04
Gamma Total Body Dose (mrem)	-	7.07E-06
 <u>FOURTH QUARTER 1995</u>		
Beta Air Dose (mrad)	1.65E-03	1.65E-03
Gamma Air Dose (mrad)	1.45E-05	1.02E-05
Beta + Gamma Skin Dose (mrem)	-	1.11E-03
Gamma Total Body Dose (mrem)	-	9.52E-06

[a] N Sector at 663 meters

[b] N Sector at 663 meters

TABLE 2-10

BATCH + CONTINUOUS RELEASES
FIRST, SECOND, THIRD, AND FOURTH QUARTERS 1995

DOSES FROM NOBLE GASES AT
SITE BOUNDARY AND RESIDENCE OF
HIGHEST CONCENTRATION

	Site Boundary ^[a]	Residence ^[b]
<u>FIRST QUARTER 1995</u>		
Beta Air Dose (mrad)	4.65E-03	4.65E-03
Gamma Air Dose (mrad)	4.10E-05	2.87E-05
Beta + Gamma Skin Dose (mrem)	-	3.23E-03
Gamma Total Body Dose (mrem)	-	2.69E-05
<u>SECOND QUARTER 1995</u>		
Beta Air Dose (mrad)	1.15E-03	1.15E-03
Gamma Air Dose (mrad)	1.02E-05	7.12E-06
Beta + Gamma Skin Dose (mrem)	-	8.00E-04
Gamma Total Body Dose (mrem)	-	6.66E-06
<u>THIRD QUARTER 1995</u>		
Beta Air Dose (mrad)	1.22E-03	1.22E-03
Gamma Air Dose (mrad)	1.08E-05	7.55E-06
Beta + Gamma Skin Dose (mrem)	-	8.45E-04
Gamma Total Body Dose (mrem)	-	7.07E-06
<u>FOURTH QUARTER 1995</u>		
Beta Air Dose (mrad)	1.65E-03	1.65E-03
Gamma Air Dose (mrad)	1.45E-05	1.02E-05
Beta + Gamma Skin Dose (mrem)	-	1.14E-03
Gamma Total Body Dose (mrem)	-	9.52E-06

[a] N Sector at 663 meters

[b] N Sector at 663 meters

TABLE 2-11

1 QUARTER 1995 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(PREM)

EXPOSURE LOCATION AND PATHWAY	BOUNE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-12

1 QUARTER 1995 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
TOTAL	0.00E+00	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
MEAT CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
TOTAL	0.00E+00	2.91E-02	2.91E-02	2.91E-02	2.91E-02	2.91E-02	2.91E-02	2.91E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
MEAT CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
COW MILK CONSUMPTION	0.00E+00	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03
TOTAL	0.00E+00	3.55E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
MEAT CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
GOAT MILK CONSUMPTION	0.00E+00	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02
TOTAL	0.00E+00	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.21E-02

TABLE 2-13

1 QUARTER 1995 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
TOTAL	0.00E+00	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
MEAT CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
TOTAL	0.00E+00	2.91E-02	2.91E-02	2.91E-02	2.91E-02	2.91E-02	2.91E-02	2.91E-02
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02
MEAT CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
COW MILK CONSUMPTION	0.00E+00	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03
TOTAL	0.00E+00	3.55E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03	9.53E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-03	9.53E-03	9.53E-03
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.63E-03	2.63E-03	2.63E-03	2.63E-03	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	1.43E-02	1.43E-02	1.43E-02	1.43E-02	2.63E-03	2.63E-03	2.63E-03
MEAT CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	1.43E-02	1.43E-02	1.43E-02
GOAT MILK CONSUMPTION	0.00E+00	1.30E-02	1.30E-02	1.30E-02	1.30E-02	2.71E-03	2.71E-03	2.71E-03
TOTAL	0.00E+00	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.21E-02

TABLE 2-14

1 QUARTER 1995 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-15

1 QUARTER 1995 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
TOTAL	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
MEAT CONSUMPTION	0.00E+00	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03
TOTAL	0.00E+00	3.15E-02	3.15E-02	3.15E-02	3.15E-02	3.15E-02	3.15E-02	3.15E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
MEAT CONSUMPTION	0.00E+00	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03
COW MILK CONSUMPTION	0.00E+00	8.31E-03	8.31E-03	8.31E-03	8.31E-03	8.31E-03	8.31E-03	8.31E-03
TOTAL	0.00E+00	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
MEAT CONSUMPTION	0.00E+00	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03
GOAT MILK CONSUMPTION	0.00E+00	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02
TOTAL	0.00E+00	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02

TABLE 2-16

1 QUARTER 1995 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
TOTAL	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
MEAT CONSUMPTION	0.00E+00	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03
TOTAL	0.00E+00	3.15E-02	3.15E-02	3.15E-02	3.15E-02	3.15E-02	3.15E-02	3.15E-02
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
MEAT CONSUMPTION	0.00E+00	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03
COW MILK CONSUMPTION	0.00E+00	8.31E-03	8.31E-03	8.31E-03	8.31E-03	8.31E-03	8.31E-03	8.31E-03
TOTAL	0.00E+00	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03	9.59E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03
PRODUCE CONSUMPTION	0.00E+00	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
MEAT CONSUMPTION	0.00E+00	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03	1.62E-03
GOAT MILK CONSUMPTION	0.00E+00	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02
TOTAL	0.00E+00	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02

TABLE 2-17

1 QUARTER 1995 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-18

1 QUARTER 1995 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
TOTAL	0.00E+00	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT CONSUMPTION	0.00E+00	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
TOTAL	0.00E+00	4.24E-02	4.24E-02	4.24E-02	4.24E-02	4.24E-02	4.24E-02	4.24E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT CONSUMPTION	0.00E+00	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
COW MILK CONSUMPTION	0.00E+00	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02
TOTAL	0.00E+00	5.55E-02	5.55E-02	5.55E-02	5.55E-02	5.55E-02	5.55E-02	5.55E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT CONSUMPTION	0.00E+00	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
GOAT MILK CONSUMPTION	0.00E+00	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02
TOTAL	0.00E+00	6.91E-02	6.91E-02	6.91E-02	6.91E-02	6.91E-02	6.91E-02	6.91E-02

TABLE 2-19

1 QUARTER 1995 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
TOTAL	0.00E+00	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT CONSUMPTION	0.00E+00	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
TOTAL	0.00E+00	4.24E-02	4.24E-02	4.24E-02	4.24E-02	4.24E-02	4.24E-02	4.24E-02
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT CONSUMPTION	0.00E+00	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
COW MILK CONSUMPTION	0.00E+00	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02
TOTAL	0.00E+00	5.55E-02	5.55E-02	5.55E-02	5.55E-02	5.55E-02	5.55E-02	5.55E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03	2.07E-03
PRODUCE CONSUMPTION	0.00E+00	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02	2.99E-02
MEAT CONSUMPTION	0.00E+00	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
GOAT MILK CONSUMPTION	0.00E+00	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02
TOTAL	0.00E+00	6.91E-02	6.91E-02	6.91E-02	6.91E-02	6.91E-02	6.91E-02	6.91E-02

TABLE 2-20

1 QUARTER 1995 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
MOBILE CASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MBREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-21

1 QUARTER 1995 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
MOBILE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02
TOTAL	0.00E+00	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	4.06E-02	4.06E-02	4.06E-02	4.06E-02	4.06E-02	4.06E-02	4.06E-02
TOTAL	0.00E+00	4.55E-02	4.55E-02	4.55E-02	4.55E-02	4.55E-02	4.55E-02	4.55E-02

TABLE 2-22

1 QUARTER 1995 BATCH + CONTINUOUS RELEASES

INFANT

 DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
 NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
 (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02
TOTAL	0.00E+00	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	4.06E-02	4.06E-02	4.06E-02	4.06E-02	4.06E-02	4.06E-02	4.06E-02
TOTAL	0.00E+00	4.55E-02	4.55E-02	4.55E-02	4.55E-02	4.55E-02	4.55E-02	4.55E-02

TABLE 2-23

2 QUARTER 1995 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MBREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-24

2 QUARTER 1995 CONTINUOUS RELEASES

ADULT

DOSES FROM CASEOUS EFFLUENTS (EXCLUDING
NOBLE CASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
TOTAL	0.00E+00	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
MEAT CONSUMPTION	0.00E+00	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03
TOTAL	0.00E+00	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
MEAT CONSUMPTION	0.00E+00	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03
COW MILK CONSUMPTION	0.00E+00	6.56E-03	6.56E-03	6.56E-03	6.56E-03	6.56E-03	6.56E-03	6.56E-03
TOTAL	0.00E+00	3.65E-02	3.65E-02	3.65E-02	3.65E-02	3.65E-02	3.65E-02	3.65E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
MEAT CONSUMPTION	0.00E+00	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03
GOAT MILK CONSUMPTION	0.00E+00	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02
TOTAL	0.00E+00	4.33E-02	4.33E-02	4.33E-02	4.33E-02	4.33E-02	4.33E-02	4.33E-02

TABLE 2-25

2 QUARTER 1995 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
TOTAL	0.00E+00	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
MEAT CONSUMPTION	0.00E+00	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03
TOTAL	0.00E+00	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
MEAT CONSUMPTION	0.00E+00	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03
COW MILK CONSUMPTION	0.00E+00	6.56E-03	6.56E-03	6.56E-03	6.56E-03	6.56E-03	6.56E-03	6.56E-03
TOTAL	0.00E+00	3.65E-02	3.65E-02	3.65E-02	3.65E-02	3.65E-02	3.65E-02	3.65E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03	9.80E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03	2.71E-03
PRODUCE CONSUMPTION	0.00E+00	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
MEAT CONSUMPTION	0.00E+00	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03	2.79E-03
GOAT MILK CONSUMPTION	0.00E+00	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02
TOTAL	0.00E+00	4.33E-02	4.33E-02	4.33E-02	4.33E-02	4.33E-02	4.33E-02	4.33E-02

TABLE 2-26

2 QUARTER 1995 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-27

2 QUARTER 1995 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MBEM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
TOTAL	0.00E+00	3.08E-02	3.08E-02	3.08E-02	3.08E-02	3.08E-02	3.08E-02	3.08E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
MEAT CONSUMPTION	0.00E+00	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03
TOTAL	0.00E+00	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
MEAT CONSUMPTION	0.00E+00	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03
COW MILK CONSUMPTION	0.00E+00	8.54E-03	8.54E-03	8.54E-03	8.54E-03	8.54E-03	8.54E-03	8.54E-03
TOTAL	0.00E+00	4.10E-02	4.10E-02	4.10E-02	4.10E-02	4.10E-02	4.10E-02	4.10E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
MEAT CONSUMPTION	0.00E+00	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03
GOAT MILK CONSUMPTION	0.00E+00	1.74E-02	1.74E-02	1.74E-02	1.74E-02	1.74E-02	1.74E-02	1.74E-02
TOTAL	0.00E+00	4.98E-02	4.98E-02	4.98E-02	4.98E-02	4.98E-02	4.98E-02	4.98E-02

TABLE 2-28

2 QUARTER 1995 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
TOTAL	0.00E+00	3.08E-02	3.08E-02	3.08E-02	3.08E-02	3.08E-02	3.08E-02	3.08E-02
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
MEAT CONSUMPTION	0.00E+00	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03
TOTAL	0.00E+00	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
MEAT CONSUMPTION	0.00E+00	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03
COW MILK CONSUMPTION	0.00E+00	8.54E-03	8.54E-03	8.54E-03	8.54E-03	8.54E-03	8.54E-03	8.54E-03
TOTAL	0.00E+00	4.10E-02	4.10E-02	4.10E-02	4.10E-02	4.10E-02	4.10E-02	4.10E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03	9.86E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03
PRODUCE CONSUMPTION	0.00E+00	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
MEAT CONSUMPTION	0.00E+00	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03
GOAT MILK CONSUMPTION	0.00E+00	1.74E-02	1.74E-02	1.74E-02	1.74E-02	1.74E-02	1.74E-02	1.74E-02
TOTAL	0.00E+00	4.98E-02	4.98E-02	4.98E-02	4.98E-02	4.98E-02	4.98E-02	4.98E-02

TABLE 2-29

2 QUARTER 1995 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-30

2 QUARTER 1995 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN {NORTH SECTOR AT 663. METERS}								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
TOTAL	0.00E+00	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02
MEAT ANIMAL {NORTH SECTOR AT 663. METERS}								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
MEAT CONSUMPTION	0.00E+00	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03
TOTAL	0.00E+00	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02
MILK COW {NORTH SECTOR AT 663. METERS}								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
MEAT CONSUMPTION	0.00E+00	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03
COW MILK CONSUMPTION	0.00E+00	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02
TOTAL	0.00E+00	5.71E-02	5.71E-02	5.71E-02	5.71E-02	5.71E-02	5.71E-02	5.71E-02
MILK COAT {NORTH SECTOR AT 663. METERS}								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
MEAT CONSUMPTION	0.00E+00	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03
GOAT MILK CONSUMPTION	0.00E+00	2.75E-02	2.75E-02	2.75E-02	2.75E-02	2.75E-02	2.75E-02	2.75E-02
TOTAL	0.00E+00	7.11E-02	7.11E-02	7.11E-02	7.11E-02	7.11E-02	7.11E-02	7.11E-02

TABLE 2-31

2 QUARTER 1995 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MBREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
TOTAL	0.00E+00	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
MEAT CONSUMPTION	0.00E+00	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03
TOTAL	0.00E+00	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
MEAT CONSUMPTION	0.00E+00	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03
COW MILK CONSUMPTION	0.00E+00	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02
TOTAL	0.00E+00	5.71E-02	5.71E-02	5.71E-02	5.71E-02	5.71E-02	5.71E-02	5.71E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03	8.72E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03
PRODUCE CONSUMPTION	0.00E+00	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02	3.07E-02
MEAT CONSUMPTION	0.00E+00	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03	2.01E-03
GOAT MILK CONSUMPTION	0.00E+00	2.75E-02	2.75E-02	2.75E-02	2.75E-02	2.75E-02	2.75E-02	2.75E-02
TOTAL	0.00E+00	7.11E-02	7.11E-02	7.11E-02	7.11E-02	7.11E-02	7.11E-02	7.11E-02

TABLE 2-32

2 QUARTER 1995 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-33

2 QUARTER 1995 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MBREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02
TOTAL	0.00E+00	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	4.18E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02
TOTAL	0.00E+00	4.68E-02	4.68E-02	4.68E-02	4.68E-02	4.68E-02	4.68E-02	4.68E-02

TABLE 2-34

2 QUARTER 1995 BATCH + CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02
TOTAL	0.00E+00	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03	5.01E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	4.18E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02
TOTAL	0.00E+00	4.68E-02	4.68E-02	4.68E-02	4.68E-02	4.68E-02	4.68E-02	4.68E-02

TABLE 2-35

3 QUARTER 1995 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-36

3 QUARTER 1995 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
TOTAL	0.00E+00	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
MEAT CONSUMPTION	0.00E+00	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03
TOTAL	0.00E+00	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
MEAT CONSUMPTION	0.00E+00	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03
COW MILK CONSUMPTION	0.00E+00	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03
TOTAL	0.00E+00	1.59E-02	1.59E-02	1.59E-02	1.59E-02	1.59E-02	1.59E-02	1.59E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
MEAT CONSUMPTION	0.00E+00	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03
GOAT MILK CONSUMPTION	0.00E+00	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03
TOTAL	0.00E+00	1.88E-02	1.88E-02	1.88E-02	1.88E-02	1.88E-02	1.88E-02	1.88E-02

TABLE 2-37

3 QUARTER 1995 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
TOTAL	0.00E+00	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
MEAT CONSUMPTION	0.00E+00	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03
TOTAL	0.00E+00	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
MEAT CONSUMPTION	0.00E+00	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	6.37E-03
COW MILK CONSUMPTION	0.00E+00	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	1.21E-03
TOTAL	0.00E+00	1.59E-02	1.59E-02	1.59E-02	1.59E-02	1.59E-02	1.59E-02	1.59E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03	4.26E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
PRODUCE CONSUMPTION	0.00E+00	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03	6.37E-03
MEAT CONSUMPTION	0.00E+00	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03	1.21E-03
GOAT MILK CONSUMPTION	0.00E+00	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03
TOTAL	0.00E+00	1.88E-02	1.88E-02	1.88E-02	1.88E-02	1.88E-02	1.88E-02	1.88E-02

TABLE 2-38

3 QUARTER 1995 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-39

3 QUARTER 1995 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
TOTAL	0.00E+00	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
MEAT CONSUMPTION	0.00E+00	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04
TOTAL	0.00E+00	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
MEAT CONSUMPTION	0.00E+00	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04
COW MILK CONSUMPTION	0.00E+00	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03
TOTAL	0.00E+00	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
MEAT CONSUMPTION	0.00E+00	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04
GOAT MILK CONSUMPTION	0.00E+00	7.57E-03	7.57E-03	7.57E-03	7.57E-03	7.57E-03	7.57E-03	7.57E-03
TOTAL	0.00E+00	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02

TABLE 2-40

3 QUARTER 1995 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
TOTAL	0.00E+00	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
MEAT CONSUMPTION	0.00E+00	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04
TOTAL	0.00E+00	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
MEAT CONSUMPTION	0.00E+00	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04
COW MILK CONSUMPTION	0.00E+00	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03
TOTAL	0.00E+00	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04	7.80E-04
PRODUCE CONSUMPTION	0.00E+00	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03	8.30E-03
MEAT CONSUMPTION	0.00E+00	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04	7.22E-04
GOAT MILK CONSUMPTION	0.00E+00	7.57E-03	7.57E-03	7.57E-03	7.57E-03	7.57E-03	7.57E-03	7.57E-03
TOTAL	0.00E+00	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02

TABLE 2-41

3 QUARTER 1995 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY (NORTH SECTOR AT 663. METERS)	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-42

3 QUARTER 1995 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<hr/>								
GARDEN (NORTH SECTOR AT 663. METERS)								
<hr/>								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
TOTAL	0.00E+00	1.81E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
<hr/>								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
MEAT CONSUMPTION	0.00E+00	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
TOTAL	0.00E+00	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02
MILK COW (NORTH SECTOR AT 663. METERS)								
<hr/>								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
MEAT CONSUMPTION	0.00E+00	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
COW MILK CONSUMPTION	0.00E+00	5.86E-03	5.86E-03	5.86E-03	5.86E-03	5.86E-03	5.86E-03	5.86E-03
TOTAL	0.00E+00	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
<hr/>								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
MEAT CONSUMPTION	0.00E+00	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
GOAT MILK CONSUMPTION	0.00E+00	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02
TOTAL	0.00E+00	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02

TABLE 2-43

3 QUARTER 1995 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-03	3.79E-03	3.79E-03
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	9.24E-04	9.24E-04	9.24E-04
TOTAL	0.00E+00	1.81E-02	1.81E-02	1.81E-02	1.81E-02	1.33E-02	1.33E-02	1.33E-02
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
MEAT CONSUMPTION	0.00E+00	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
TOTAL	0.00E+00	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
MEAT CONSUMPTION	0.00E+00	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
COW MILK CONSUMPTION	0.00E+00	5.86E-03	5.86E-03	5.86E-03	5.86E-03	5.86E-03	5.86E-03	5.86E-03
TOTAL	0.00E+00	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02	2.48E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03	3.79E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04	9.24E-04
PRODUCE CONSUMPTION	0.00E+00	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02	1.33E-02
MEAT CONSUMPTION	0.00E+00	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
GOAT MILK CONSUMPTION	0.00E+00	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02
TOTAL	0.00E+00	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02

TABLE 2-44

3 QUARTER 1995 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-ILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-45

3 QUARTER 1995 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
MEAT ANIMAL								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
MILK COW								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	8.90E-03	8.90E-03	8.90E-03	8.90E-03	8.90E-03	8.90E-03	8.90E-03
TOTAL	0.00E+00	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02
MILK GOAT								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02
TOTAL	0.00E+00	2.03E-02	2.03E-02	2.03E-02	2.03E-02	2.03E-02	2.03E-02	2.03E-02

TABLE 2-46

3 QUARTER 1995 BATCH + CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MBREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	8.90E-03	8.90E-03	8.90E-03	8.90E-03	8.90E-03	8.90E-03	8.90E-03
TOTAL	0.00E+00	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03	2.18E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02
TOTAL	0.00E+00	2.03E-02	2.03E-02	2.03E-02	2.03E-02	2.03E-02	2.03E-02	2.03E-02

TABLE 2-47

4 QUARTER 1995 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LL I	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-48

4 QUARTER 1995 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
MOBILE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
TOTAL	0.00E+00	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
MEAT CONSUMPTION	0.00E+00	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04
TOTAL	0.00E+00	6.41E-03	6.41E-03	6.41E-03	6.41E-03	6.41E-03	6.41E-03	6.41E-03
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
MEAT CONSUMPTION	0.00E+00	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04
COW MILK CONSUMPTION	0.00E+00	1.40E-03	1.40E-03	1.40E-03	1.40E-03	1.40E-03	1.40E-03	1.40E-03
TOTAL	0.00E+00	7.81E-03	7.81E-03	7.81E-03	7.81E-03	7.81E-03	7.81E-03	7.81E-03
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
MEAT CONSUMPTION	0.00E+00	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04
GOAT MILK CONSUMPTION	0.00E+00	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.86E-03
TOTAL	0.00E+00	9.27E-03	9.27E-03	9.27E-03	9.27E-03	9.27E-03	9.27E-03	9.27E-03

TABLE 2-49

4 QUARTER 1995 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
TOTAL	0.00E+00	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03	5.81E-03
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
MEAT CONSUMPTION	0.00E+00	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04
TOTAL	0.00E+00	6.41E-03	6.41E-03	6.41E-03	6.41E-03	6.41E-03	6.41E-03	6.41E-03
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
MEAT CONSUMPTION	0.00E+00	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04
COW MILK CONSUMPTION	0.00E+00	1.40E-03	1.40E-03	1.40E-03	1.40E-03	1.40E-03	1.40E-03	1.40E-03
TOTAL	0.00E+00	7.81E-03	7.81E-03	7.81E-03	7.81E-03	7.81E-03	7.81E-03	7.81E-03
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03	2.10E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04
PRODUCE CONSUMPTION	0.00E+00	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
MEAT CONSUMPTION	0.00E+00	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04	5.96E-04
GOAT MILK CONSUMPTION	0.00E+00	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.86E-03
TOTAL	0.00E+00	9.27E-03	9.27E-03	9.27E-03	9.27E-03	9.27E-03	9.27E-03	9.27E-03

TABLE 2-50

4 QUARTER 1995 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-ILLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-51

4 QUARTER 1995 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
TOTAL	0.00E+00	6.58E-03	6.58E-03	6.58E-03	6.58E-03	6.58E-03	6.58E-03	6.58E-03
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
MEAT CONSUMPTION	0.00E+00	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04
TOTAL	0.00E+00	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
MEAT CONSUMPTION	0.00E+00	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04
COW MILK CONSUMPTION	0.00E+00	1.83E-03	1.83E-03	1.83E-03	1.83E-03	1.83E-03	1.83E-03	1.83E-03
TOTAL	0.00E+00	8.76E-03	8.76E-03	8.76E-03	8.76E-03	8.76E-03	8.76E-03	8.76E-03
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
MEAT CONSUMPTION	0.00E+00	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04
GOAT MILK CONSUMPTION	0.00E+00	3.73E-03	3.73E-03	3.73E-03	3.73E-03	3.73E-03	3.73E-03	3.73E-03
TOTAL	0.00E+00	1.07E-02	1.07E-02	1.07E-02	1.07E-02	1.07E-02	1.07E-02	1.07E-02

TABLE 2-52

4 QUARTER 1995 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
TOTAL	0.00E+00	6.58E-03	6.58E-03	6.58E-03	6.58E-03	6.58E-03	6.58E-03	6.58E-03
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
MEAT CONSUMPTION	0.00E+00	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04
TOTAL	0.00E+00	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
MEAT CONSUMPTION	0.00E+00	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04
COW MILK CONSUMPTION	0.00E+00	1.83E-03	1.83E-03	1.83E-03	1.83E-03	1.83E-03	1.83E-03	1.83E-03
TOTAL	0.00E+00	8.76E-03	8.76E-03	8.76E-03	8.76E-03	8.76E-03	8.76E-03	8.76E-03
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04	3.84E-04
PRODUCE CONSUMPTION	0.00E+00	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03	4.09E-03
MEAT CONSUMPTION	0.00E+00	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04	3.55E-04
GOAT MILK CONSUMPTION	0.00E+00	3.73E-03	3.73E-03	3.73E-03	3.73E-03	3.73E-03	3.73E-03	3.73E-03
TOTAL	0.00E+00	1.07E-02	1.07E-02	1.07E-02	1.07E-02	1.07E-02	1.07E-02	1.07E-02

TABLE 2-53

4 QUARTER 1995 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-54

4 QUARTER 1995 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
MOBILE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
TOTAL	0.00E+00	8.89E-03	8.89E-03	8.89E-03	8.89E-03	8.89E-03	8.89E-03	8.89E-03
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
MEAT CONSUMPTION	0.00E+00	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04
TOTAL	0.00E+00	9.32E-03	9.32E-03	9.32E-03	9.32E-03	9.32E-03	9.32E-03	9.32E-03
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
MEAT CONSUMPTION	0.00E+00	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04
COW MILK CONSUMPTION	0.00E+00	2.89E-03	2.89E-03	2.89E-03	2.89E-03	2.89E-03	2.89E-03	2.89E-03
TOTAL	0.00E+00	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
MEAT CONSUMPTION	0.00E+00	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04
GOAT MILK CONSUMPTION	0.00E+00	5.89E-03	5.89E-03	5.89E-03	5.89E-03	5.89E-03	5.89E-03	5.89E-03
TOTAL	0.00E+00	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02

TABLE 2-55

4 QUARTER 1995 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
TOTAL	0.00E+00	8.89E-03	8.89E-03	8.89E-03	8.89E-03	8.89E-03	8.89E-03	8.89E-03
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
MEAT CONSUMPTION	0.00E+00	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04
TOTAL	0.00E+00	9.32E-03	9.32E-03	9.32E-03	9.32E-03	9.32E-03	9.32E-03	9.32E-03
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
MEAT CONSUMPTION	0.00E+00	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04
COW MILK CONSUMPTION	0.00E+00	2.89E-03	2.89E-03	2.89E-03	2.89E-03	2.89E-03	2.89E-03	2.89E-03
TOTAL	0.00E+00	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04	4.55E-04
PRODUCE CONSUMPTION	0.00E+00	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03	6.57E-03
MEAT CONSUMPTION	0.00E+00	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04	4.29E-04
GOAT MILK CONSUMPTION	0.00E+00	5.89E-03	5.89E-03	5.89E-03	5.89E-03	5.89E-03	5.89E-03	5.89E-03
TOTAL	0.00E+00	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02

TABLE 2-56

4 QUARTER 1975 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 2-57

4 QUARTER 1995 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GILL	SKIN
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03
TOTAL	0.00E+00	5.45E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	8.94E-03	8.94E-03	8.94E-03	8.94E-03	8.94E-03	8.94E-03	8.94E-03
TOTAL	0.00E+00	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02

TABLE 2-58

4 QUARTER 1995 BATCH + CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
MEAT ANIMAL MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
MILK COW MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03
TOTAL	0.00E+00	5.45E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03
MILK GOAT MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	8.94E-03	8.94E-03	8.94E-03	8.94E-03	8.94E-03	8.94E-03	8.94E-03
TOTAL	0.00E+00	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02

TABLE 2-59

FIRST QUARTER 1995
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM
GASEOUS EFFLUENTS
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	1.6E-04	1.6E-04
AIR INHALATION	5.8E-02	5.7E-02
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	3.8E-04	3.8E-04
PRODUCE CONSUMPTION	2.0E-03	2.0E-03
MEAT CONSUMPTION	3.1E-03	3.1E-03
MILK CONSUMPTION	3.0E-02	3.1E-02
TOTAL	9.3E-02	9.4E-02
AVERAGE DOSE (MREM/PERSON)	4.5E-05	4.6E-05

TABLE 2-60

SECOND QUARTER 1995
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM
GASEOUS EFFLUENTS
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	3.9E-05	3.9E-05
AIR INHALATION	5.9E-02	5.9E-02
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	3.9E-04	3.9E-04
PRODUCE CONSUMPTION	2.1E-03	2.1E-03
MEAT CONSUMPTION	3.1E-03	3.1E-03
MILK CONSUMPTION	3.1E-02	3.2E-02
TOTAL	9.6E-02	9.7E-02
AVERAGE DOSE (MREM/PERSON)	4.7E-05	4.7E-05

TABLE 2-61

THIRD QUARTER 1995
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM
GASEOUS EFFLUENTS
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	2E-05	4.2E-05
AIR INHALATION	2.6E-02	2.6E-02
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	1.7E-04	1.7E-04
PRODUCE CONSUMPTION	9.1E-04	9.1E-04
MEAT CONSUMPTION	1.4E-03	1.4E-03
MILK CONSUMPTION	1.3E-02	1.4E-02
TOTAL	4.2E-02	4.2E-02
AVERAGE DOSE (MREM/PERSON)	2.0E-05	2.0E-05

TABLE 2-62

FOURTH QUARTER 1995
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM
GASEOUS EFFLUENTS
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	5.6E-05	5.6E-05
AIR INHALATION	1.3E-02	1.3E-02
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	8.3E-05	8.3E-05
PRODUCE CONSUMPTION	4.5E-04	4.5E-04
MEAT CONSUMPTION	6.7E-04	6.7E-04
MILK CONSUMPTION	6.6E-03	6.8E-03
TOTAL	2.1E-02	2.1E-02
AVERAGE DOSE (MREM/PERSON)	1.0E-05	1.0E-05

3. METEOROLOGICAL DATA

Meteorological models and assumptions used in performing the analyses are presented in PGE-1021, "Offsite Dose Calculation Manual."

4. CHANGES TO THE OFFSITE DOSE CALCULATION MANUAL (ODCM)

Requirement

The Offsite Dose Calculation Manual is no longer required by Trojan Facility Operating License NPF-1, Appendix A, Permanently Defueled Technical Specifications, to be submitted as part of, or concurrent with, the Annual Radioactive Effluent Release Report. The ODCM will be submitted with, or as part of, the Radiological Environmental Monitoring Report in accordance with Technical Specification 5.7.2.3.2.

5. ASSESSMENT OF DOSES WITHIN THE UNRESTRICTED AREA BOUNDARY

An assessment of doses to individuals utilizing controlled areas within the Trojan Nuclear Plant Site Exclusion Area Boundary was performed for 1995. Specific locations considered included occupational areas outside the restricted area boundary and recreational (i.e., public access) areas located at the site. The methodology contained in Appendix D of PGE-1021, "Offsite Dose Calculation Manual (ODCM)," was followed. Occupancies of 2,000 hours per year for occupational locations and 1,530 hours per year for recreational locations were assumed. Recreational activities (daytime only) are hiking, picnicking, swimming, fishing, and nature observation. Location directions and downwind distances are tabulated below:

TABLE 5-1

ONSITE DOSE LOCATIONS CONSIDERED

<u>SECTOR</u>	<u>DISTANCE</u> <u>(meters)</u>	<u>LOCATION</u>	<u>ASSUMED</u> <u>OCCUPANCY</u> <u>(hours/year)</u>	<u>OCCUPANCY</u> <u>FACTOR</u> <u>(hours/8760)</u>
SSE	286	South Cooling Tower	1530	0.17
S	414	Sewage Plant	2000	0.23
SSW	305	Park	1530	0.17
SW	122	Administration Bldg	2000	0.23
WSW	686	Visitor Center	1530	0.17
W	398	Warehouse	2000	0.23
WNW	300	Trojan North Bldg.	2000	0.23

The methodology described in Appendix D of the ODCM allows for the use of a correction factor when performing an assessment of doses to individuals within the Unrestricted Area boundary. The correction factor is the highest ratio of the gamma air dose at a location within the Unrestricted Area to the gamma air dose at the site boundary. Based on historical data, the highest correction factor for continuous releases is equal to 4.0. The gamma air dose for all locations within the Unrestricted Area boundary was determined by multiplying the gamma air dose at the site boundary by 4.0. This same methodology was also used to determine the beta air dose for all locations listed in Table 5-1.

The gamma and beta air dose at each location within the Unrestricted Area boundary is given in Table 5-2.

TABLE 5-2

GAMMA AND BETA AIR DOSE AT EACH LOCATION

<u>Quarter</u>	<u>Gamma Air Dose (mrad)</u>	<u>Beta Air Dose (mrad)</u>
First	1.64E-04	1.86E-02
Second	4.08E-05	4.60E-02
Third	4.32E-05	4.88E-03
Fourth	5.80E-05	6.60E-03

6. DIRECT RADIATION DOSES FROM THE FACILITY

Controlled/Unrestricted Area Thermoluminescent Dosimeter (TLD) measurements are used to assess the impact of operational activities of the Trojan Nuclear Plant on ambient radiation levels. For sources of direct radiation from the facility, TLD measurements indicate that total body doses to individuals in Unrestricted Areas are zero.

Trojan Nuclear Plant permits members of the public to have access to controlled areas of the site. Therefore, an assessment of the dose to a member of the public in the Controlled Area during the Large Component Removal (LCR) project was performed.

The highest exposure rates during the LCR project were measured at the North Industrial Area fence during the first week in October 1995. The exposure rate was 0.34 milliroentgen/hour.

The North Industrial Area fence is considered accessible to members of the public. Therefore, a prospective evaluation of the area was performed to establish occupancy. It was determined that a member of the public would not occupy this area for more than 24 hours in a year. Therefore, the annual dose to a member of the public, due to activity in the Controlled Area, is 8.16 millirem.

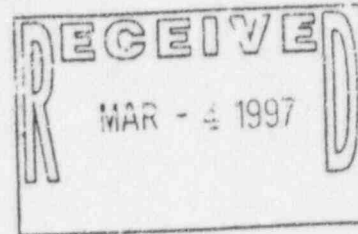


SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT □ 6201 S Street, P.O. Box 15830, Sacramento CA 95852-1830, (916) 452-3211
AN ELECTRIC SYSTEM SERVING THE HEART OF CALIFORNIA

MPC&D 97-037

February 27, 1997



U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington D.C. 20555

Docket No. 50-312
Rancho Seco Nuclear Station
License No. DPR-54

1996 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

Attention: Seymour Weiss:

In accordance with 10 CFR 50.36a(a)(2) and Rancho Seco Permanently
Defueled Technical Specification D6.9.3, the District submits the enclosed
Rancho Seco Annual Radioactive Effluent Release Report for the period
January 1 through December 31, 1996.

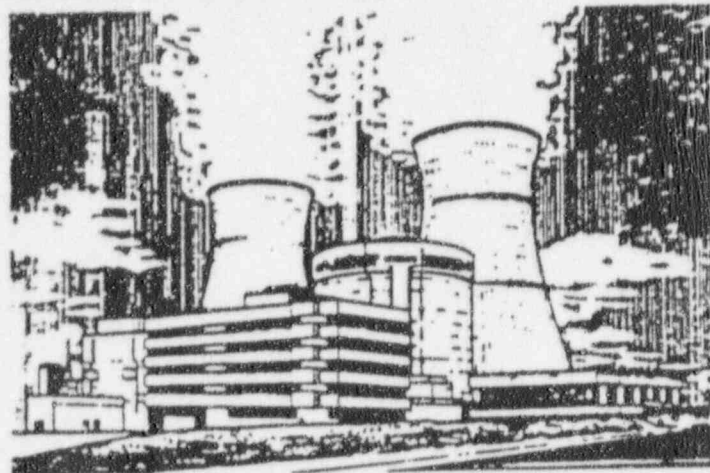
Members of your staff requiring additional information or clarification may
contact Einar Ronningen at (916) 452-3211, extension 4467.

Sincerely,

Steve J. Redeker
Manager
Plant Closure & Decommissioning

Attachment

cc w/atch: NRC Region IV Administrator, NRC, Arlington
R. Dudley, NRC, Rockville



RANCHO SECO
Nuclear Generating Station

LICENSE NUMBER DPR-54

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 1996

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE OF CONTENTS

INTRODUCTION.....	1
I. SUPPLEMENTAL INFORMATION.....	2
A. Regulatory Limits & Guidelines for Effluent Releases.....	2
B. Maximum Effluent Concentrations	3
C. Measurement Methods for Total Radioactivity.....	3
D. Batch Releases (via monitored pathways).....	4
E. Unplanned Releases	5
F. Radioactive Effluent Monitoring Instrumentation Inoperable for Greater Than 30 Days	5
II. ESTIMATION OF ERROR	6
III. GASEOUS EFFLUENTS	7
Table III-A Gaseous Effluents - Summation of All Releases.....	8
Table III-B Gaseous Effluents - Ground Level Releases	9
Table III-C Gaseous Effluents - Typical Lower Limits of Detection	10
Table III-D Radiological Impact on Man Due to Gaseous Effluents.....	11
IV. LIQUID EFFLUENTS.....	12
Table IV-A Liquid Effluents - Summation of All Releases	13
Table IV-B Liquid Effluents	14
Table IV-C Liquid Effluents - Typical Lower Limits of Detection.....	15
Table IV-D Liquid Effluents - Radiological Impact on Man Due to Liquid Effluents.....	16
V. SOLID WASTE	17

ADDENDA

Corrections To The 1995 ARERR

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

INTRODUCTION

Rancho Seco Nuclear Generating Station (RSNGS) Unit No. 1 is located in Sacramento County, California approximately 25 miles southeast of Sacramento and 26 miles north-northeast of Stockton. Rancho Seco Unit No. 1 began commercial operation on April 17, 1975. The single unit on the Rancho Seco site is a pressurized water reactor supplied by Babcock and Wilcox. The rated capacity is 963 gross megawatts electrical. Because of a public vote on June 6, 1989, the District shutdown the Rancho Seco Nuclear Generating Station and completed defueling operations on December 8, 1989.

This Annual Radioactive Effluent Release Report (ARERR) provides a summary of gaseous and liquid effluent releases made from Rancho Seco during the period January 1 through December 31, 1996. Also presented in this report is the projected radiological impact from these releases and a summary of solid radwaste shipments.

This report has been prepared by the Sacramento Municipal Utility District to meet the requirements of Rancho Seco Technical Specification D6.9.3 and Offsite Dose Calculation Manual (ODCM) Step 6.15. It is presented in accordance with the format of USNRC Regulatory Guide 1.21. The radiation doses reported in this ARERR are calculated for a hypothetical individual who receives the maximum possible exposure at or beyond the applicable Site Boundary.

Releases of radioactivity in gaseous and liquid effluents during this report period did not exceed the limits of 10 CFR 20 or the numerical guidelines of 10 CFR 50, Appendix I. A 40 CFR 190 dose evaluation is not required because radioactive effluent releases did not exceed twice the numerical guidelines of 10 CFR 50, Appendix I.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

I. SUPPLEMENTAL INFORMATION

A. REGULATORY LIMITS & GUIDELINES FOR EFFLUENT RELEASES

1. Gaseous Effluents

- a. Noble Gas dose rate limit at or beyond the Site Boundary for Gaseous Effluents (Offsite Dose Calculation Manual (ODCM) Technical Requirement 6.14.6):

500 mrem/year to the total body
3000 mrem/year to the skin

- b. Noble Gas air dose limit at or beyond the Site Boundary for Gaseous Effluents (ODCM Technical Requirement 6.14.7, numerical guidelines of 10 CFR 50, Appendix I):

5 mrad per calendar quarter for gamma radiation
10 mrad per calendar quarter for beta radiation
10 mrad per calendar year for gamma radiation
20 mrad per calendar year for beta radiation

- c. Dose rate limit at or beyond the Site Boundary for Gaseous Effluents for Tritium and radioactive material in particulate form with half-lives greater than 8 days (ODCM Technical Requirement 6.14.6):

1500 mrem/year to any organ

- d. Dose commitment to a member of the public at or beyond the Site Boundary for Gaseous Effluents from Tritium and radioactive material in particulate form with half-lives greater than 8 days (ODCM Technical Requirement 6.14.8, numerical guidelines of 10 CFR 50, Appendix I):

7.5 mrem per calendar quarter to any organ
15 mrem per calendar year to any organ

2. Liquid Effluents

- a. The concentration of radioactive material in liquid effluents released beyond the Site Boundary for Liquid Effluents shall not exceed the limits of 10 CFR 20, Appendix B, Table 2, Column 2. This applies to all radionuclides except dissolved or entrained noble gases (ODCM Technical Requirement 6.14.2).

- b. Dose commitment to a member of the public at or beyond the Site Boundary for Liquid Effluents from radioactive materials in liquid effluents shall be limited to (ODCM Technical Requirement 6.14.3, numerical guidelines of 10 CFR 50, Appendix I):

1.5 mrem per calendar quarter to the total body
5 mrem per calendar quarter to any organ
3 mrem per calendar year to the total body
10 mrem per calendar year to any organ

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

B. MAXIMUM EFFLUENT CONCENTRATIONS

1. Gaseous Effluents

The concentrations listed in 10 CFR 20, Appendix B, Table 2, Column 1 (air) are not directly used in calculations for determining permissible gaseous effluent release rates. The annual dose limits of 10 CFR 20 for unrestricted areas are the doses associated with the concentrations of 10 CFR 20, Appendix B, Table 2, Column 1. ODCM Technical Requirement dose rate limits (mrem/yr) for gaseous effluents are provided to ensure that the dose rate from gaseous effluents at any time at the Site Boundary for Gaseous Effluents will be within the annual dose limits of 10 CFR 20 for unrestricted areas. These dose rate limits (listed above in part A) are used for determining permissible gaseous effluent release rates.

2. Liquid Effluents

The concentration values listed in 10 CFR 20, Appendix B, Table 2, Column 2 are used in calculations to determine permissible liquid discharge flow rates. The most conservative Maximum Effluent Concentration (MEC) value for each radionuclide detected in the liquid effluent sample (excluding dissolved or entrained noble gases) is used in the calculations.

C. MEASUREMENT METHODS FOR TOTAL RADIOACTIVITY

1. Fission and Activation Gases

Gamma Spectroscopy (HPGe)

Liquid Scintillation (H-3)

2. Particulates

Gamma Spectroscopy (HPGe)

Beta Proportional (Sr-90, gross beta)

Alpha Proportional (gross alpha)

3. Liquid Effluents

Gamma Spectroscopy (HPGe)

Liquid Scintillation (H-3)

Beta Proportional (Sr-90, gross beta)

Alpha Proportional (gross alpha)

NOTE: HPGe refers to Hyper-Pure Germanium

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

D. BATCH RELEASES (via monitored pathways)

	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. Liquid (RHUT Releases)				
a. Number of batch releases	3	2	1	3
b. Total time period for batch releases (hours)	6	9	2	6
c. Maximum time period for a batch release (hours)	2	5	2	2
d. Average time period for a batch release (hours)	2	4	2	2
e. Minimum time period for a batch release (hours)	1	4	2	1
2. Liquid (Retention Basin Discharges)				
a. Number of batch releases	1	1	1	1
b. Total time period for batch releases (hours)	6	10	15	9
c. Maximum time period for a batch release (hours)	6	10	15	9
d. Average time period for a batch release (hours)	6	10	15	9
e. Minimum time period for a batch release (hours)	6	10	15	9
f. Average stream flow during periods of release of effluent into a flowing stream (cfs)	19.7	15.6	15.3	14.9

NOTE: The Regenerant Holdup Tanks (RHUTs) are released to the Retention Basins. The Retention Basins are discharged offsite. All 10 CFR 50, Appendix I dose calculations are based on the RHUT releases. All 10 CFR 20 calculations are based on the Retention Basin discharges.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

E. UNPLANNED RELEASES

This section describes unplanned releases of radioactivity in liquid and gaseous effluent.

Gaseous

None

Liquid

None

F. RADIOACTIVE EFFLUENT MONITORING INSTRUMENTATION INOPERABLE FOR GREATER THAN 30 DAYS

None

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

II. ESTIMATION OF ERROR

The methods for establishing error estimates included review of applicable station procedures, inspection of sampling equipment, engineering estimates, statistical applications, review of calibration setpoint data, and communication with plant personnel. The various sources of error (s) in reported values of gaseous effluents, liquid effluents, and solid waste are assumed to be independent, and thus the total error is calculated according to the formula:

$$\text{Total Error} = \sqrt{\sigma_1^2 + \sigma_2^2 + \sigma_3^2 \dots + \sigma_i^2}$$

where: σ_i = relative error associated with component i

Sources of error for gaseous effluents include fan error (flow), grab sampling, collection, filter efficiency, counting, and calibration.

Sources of error for liquid effluents include RHUT volume, dilution water flow rate, grab sampling, counting, and calibration.

Sources of error for solid waste include offsite lab smear analysis, dose rate meter calibration, dose rate meter reading, Wastetrak dose-to-curie calculation, sample volume measurement, gamma spec counting, gamma spec calibration, and waste volume determination.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

III. GASEOUS EFFLUENTS

Table III-A, Gaseous Effluents - Summation of All Releases, provides a detailed summary of gaseous effluent releases per quarter. This table summarizes releases of fission and activation gases, particulates with half-lives greater than 8 days, and tritium. The methodology used to calculate the Percent of ODCM Technical Requirement limit is as follows:

$$\% \text{ Tech Req Limit} = \frac{\sum_i [(F_i)(\text{Avg Rel Rate})(X/Q)(\text{Dose Factor})]}{(\text{Dose Rate Limit})} \times 100\%$$

where:

F_i = The fraction of the total number of Curies of nuclide i out of the total curies in that category for that quarter (unitless).

NOTE: F_i always equals 1.0 for H-3 because it is the only nuclide in the category.

$$\text{Avg Rel Rate} = \frac{(\text{Total Curies per category per quarter}) \left(\frac{1 \text{ E} + 06 \mu\text{Ci}}{\text{Ci}} \right)}{(\# \text{ seconds in the quarter})}$$

X/Q = A default dispersion factor determined to be conservative when compared to the use of actual data (sec/m³).

Dose Factor = The values derived for each nuclide i from NRC Regulatory Guide 1.109 (K_i , $Li+1.1Mi$, or $Raij$). [Units in (mrem/yr)/($\mu\text{Ci}/\text{m}^3$)]

Dose Rate Limit = The Technical Requirement (i.e., Regulatory) limits for dose rate listed in Section I of this report (mrem/yr).

NOTE: Particulates with half-lives less than 8 days are not included in this calculation.

The methodology used to calculate the Estimated Total Error (%) in Table III-A is presented in Section II of this report.

Table III-B, Gaseous Effluents - Ground Level Releases, provides a complete quarterly summary of the amount of radioactivity (Ci) released per radionuclide in each quarter. Data from continuous and batch releases are provided for fission gases, particulates, and tritium. Data reported for batch releases results only from unplanned releases.

Table III-C, Gaseous Effluents - Typical Lower Limits of Detection, provides a listing of the typical lower limit of detection (LLD) concentrations in $\mu\text{Ci}/\text{cc}$ for various radionuclides.

Table III-D, Radiological Impact on Man Due to Gaseous Effluent Releases, provides a summary of calculated radiation doses delivered to a maximum exposed hypothetical individual at the Site Boundary for Gaseous Effluents (actual doses will be assessed in the 1996 Annual REMP Report). The maximum calculated organ dose, gamma air dose, and beta air dose are listed for each quarter along with an annual total. The dose due to direct radiation based on Thermoluminescent Dosimeter (TLD) results is also listed. Presented in this table for each category is a comparison versus ODCM Technical Requirement dose limits with the exception of direct radiation measurements.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE III-A

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>Est. Total Error, %</u>
A. Fission & Activation Gases (i.e. Noble Gases)						
1. Total Release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	N/A
2. Average Release Rate for period	µCi/sec	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
3. Percent of Tech Req limit	%	N/A	N/A	N/A	N/A	
B. Particulates						
1. Particulates with half-lives>8 days	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	2.5 E+01
2. Average Release Rate for period	µCi/sec	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
3. Percent of Tech Req limit	%	N/A	N/A	N/A	N/A	
4. Gross Alpha radioactivity ¹	Ci	0.00 E-00	1.56 E-07	5.86 E-08	1.17 E-08	
C. Tritium						
1. Total Release	Ci	2.97 E-01	4.07 E-01	4.43 E-01	4.78 E-01	2.5 E+01
2. Average Release Rate for period	µCi/sec	3.82 E-02	5.18 E-02	5.57 E-01	6.01 E-02	
3. Percent of Tech Req limit	%	3.23 E-04	4.38 E-04	4.72 E-04	5.09 E-04	

Note 1: Gross alpha activity has been determined to be naturally occurring and not the result of the fuel cycle.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE III-B

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode			
		<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. Fission Gases (i.e., Noble Gases)					
None					
2. Particulates					
None					
3. Tritium					
H-3	Ci	2.97 E-01	4.07 E-01	4.43 E-01	4.78 E-01

NOTE: Batch releases of gaseous effluent are no longer planned to be made from Rancho Seco Nuclear Generating Station.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE III-C

GASEOUS EFFLUENTS - TYPICAL LOWER LIMITS OF DETECTION

<u>RADIONUCLIDES</u>	<u>LLD ($\mu\text{Ci/cc}$)</u>
1. Tritium (H-3)	2.27 E-10
2. Fission & Activation Gases:	
Krypton-85	3.47 E-06
3. Particulates:	
Manganese-54	2.08 E-12
Cobalt-58	2.29 E-12
Iron-59	5.89 E-12
Cobalt-60	3.11 E-12
Strontium-89	2.00 E-15
Strontium-90	5.00 E-15
Cesium-134	1.52 E-12
Cesium-137	1.88 E-12
Barium-140	3.06 E-12
Cerium-141	1.15 E-12
Cerium-144	3.69 E-12

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE III-D

RADIOLOGICAL IMPACT ON MAN DUE TO GASEOUS EFFLUENT RELEASES

CALCULATED RADIATION DOSES AT THE SITE BOUNDARY FOR GASEOUS EFFLUENTS:

	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>1996 Annual</u>
A. Tritium, Particulate						
1. Maximum Organ Dose	mrem	9.64 E-03	1.32 E-02	1.44 E-02	1.55 E-02	5.72E-02
		(a)	(a)	(a)	(a)	(a)
Percent Tech Req limit	%	1.29 E-01	.76 E-01	1.92 E-01	2.07 E-01	3.52E-01
B. Noble Gas						
1. Gamma Air Dose	mrad	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Percent Tech Req limit	%	N/A	N/A	N/A	N/A	N/A
2. Beta Air Dose	mrad	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Percent Tech Req limit	%	N/A	N/A	N/A	N/A	N/A
C. Direct Radiation						
1. Dose (TLD results)	mrem	0.00 E+00*	0.00 E+00*	0.00 E+00*	0.00 E+00*	0.00 E+00*
2. Percent of Tech Req limit	%	N/A	N/A	N/A	N/A	N/A

(a) Child - All Except Bone

NOTE: The quarterly doses listed above were calculated using dose factors from GASPAR and default meteorological data for each quarter. Annual doses are the sum of quarterly doses.

* Averages of all doses at TLD Indicator Stations are less than the averages for all control stations for this Period. None of the Indicator stations indicate significant radiation attributable to Plant operations.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

IV. LIQUID EFFLUENTS

Table IV-A, Liquid Effluents - Summation of All Releases, provides a detailed summary of liquid effluent releases per quarter. This table summarizes releases of fission and activation products, tritium, dissolved and entrained gases, and gross alpha radioactivity. Also listed is the volume of waste released prior to dilution and the volume of dilution water used during each quarter.

The following methodology is used to calculate the Average Diluted Concentration and the Percent of ODCM Technical Requirement Limit in Table IV-A:

$$\% \text{ Tech Req Limit} = \sum_i^n \left[\frac{C_i}{\text{MEC}_i} \right]$$

where: n = The total number of radionuclides identified
 C_i = The average diluted concentration of radionuclide i

$$= \frac{(\text{Total Release per Category per Quarter in } \mu\text{Ci})}{(\text{Total Release Volume (part F in Table IV - A) in ml})}$$

MEC_i = The MEC of the i th radionuclide, from 10 CFR 20, Appendix B, Table 2, Column 2

The methodology used to calculate the estimated total error in Table IV-A is presented in Section II of this report.

Table IV-B, Liquid Effluents, provides a complete quarterly summary of the amount of radioactivity (C_i) released per radionuclide in each quarter. Data is provided for fission and activation products, and for dissolved and entrained gases. Tritium and gross alpha are not included in this table (they are listed in Table IV-A). Since no continuous releases of liquid radioactive effluent are made from RSNGS, data is provided only for batch releases.

Table IV-C, Liquid Effluents - Typical Lower Limits of Detection, provides a listing of the typical lower limit of detection (LLD) concentrations in $\mu\text{Ci/ml}$ for various radionuclides.

Table IV-D, Radiological Impact on Man Due To Liquid Effluent Releases, provides a summary of calculated radiation doses delivered to a maximum exposed hypothetical individual at the Site Boundary for Liquid Effluents (actual doses will be assessed in the 1996 Annual REMP Report). The maximum calculated total body dose and organ dose are listed for each quarter along with an annual total. A comparison versus ODCM Technical Requirement dose limits is also presented.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE IV-A

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>Est. Total Error, %</u>
A. Fission & Activation Products						
1. Total Release (not including tritium, gases, alpha)	Ci	1.52 E-05	1.04 E-05	4.26 E-06	2.06 E-05	2.3 E+01
2. Average diluted concentration during period	µCi/ml	3.49 E-12	3.00 E-12	1.24 E-12	6.13 E-12	
3. Percent of Tech Req limit	%	3.42 E-04	2.97 E-04	1.24 E-04	6.13 E-04	
B. Tritium						
1. Total Release	Ci	1.73 E-03	5.98 E-04	0.00 E+00	1.07 E-03	2.3 E+01
2. Average diluted concentration during period	µCi/ml	3.99 E-10	1.72 E-10	0.00 E+00	3.19 E-10	
3. Percent of Tech Req limit	%	3.99E-05	1.72 E-05	N/A	3.19 E-05	
C. Dissolved and Entrained Gases (i.e., Noble Gases)						
1. Total Release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	N/A
2. Average diluted concentration during period	µCi/ml	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
D. Gross Alpha radioactivity						
1. Total Release	Ci	2.39 E-07	0.00E+00	0.00E+00	0.00E+00	2.3 E+01
E. Volume of Waste Released						
Retention Basins (prior to dilution)	Liters	1.04 E+06	1.12 E+06	1.17 E+06	1.37 E+06	5.0 E+00
RHUTs (prior to dilution)	Liters	7.19 E+05	3.94 E+05	1.65 E+05	8.48 E+05	5.0 E+00
F. Volume of dilution water used during period						
	Liters	4.34 E+09	3.48 E+09	3.44 E+09	3.36 E+09	2.0 E+01

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE IV-B
LIQUID EFFLUENTS

<u>Nuclides Released</u>	<u>Batch Mode</u>				
	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. <u>Fission and activation products</u> <u>(excluding tritium, gases alpha)</u>					
Co-60	Ci	4.56E-07	0.00 E+00	0.00 E+00	0.00 E+00
Sr-89 ¹	Ci	0.00 E+00	1.40 E-07	0.00 E+00	0.00 E+00
Sr-90	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Cs-134	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Cs-137	Ci	1.47 E-05	1.03 E-05	4.26 E-06	2.06 E-05
Total for period (above)	Ci	1.52 E-05	1.04 E-05	4.26 E-06	2.06 E-05
2. <u>Dissolved and entrained gases</u>					
None					

NOTE: No continuous releases of liquid radioactive effluent are made from Rancho Seco Nuclear Generating Station.

Note 1: The detection of Sr-89 is suspected to be a statistical anomaly due to the short half-life and lack of a production mechanism since 1989.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE IV-C

LIQUID EFFLUENTS - TYPICAL LOWER LIMITS OF DETECTION

<u>RADIONUCLIDES</u>	<u>BATCH MODE: LLD ($\mu\text{Ci}/\text{ml}$)</u>
1. Tritium (H-3)	2.60 E-06
2. Particulates:	
Manganese-54	2.11 E-09
Iron-59	3.71 E-09
Cobalt-57	2.12 E-09
Cobalt-58	1.93 E-09
Cobalt-60	1.98 E-09
Zinc-65	4.34 E-09
Strontium-90	5.00 E-10
Ruthenium-106	1.79 E-08
Silver-110m	1.94 E-09
Antimony-125	5.78 E-09
Cesium-134	1.93 E-09
Cesium-136	2.23 E-09
Cesium-137	2.30 E-09
Barium-140	7.75 E-09
Cerium-141	3.60 E-09
Cerium-144	1.59 E-08
3. Dissolved and Entrained Gases:	
Krypton-85	4.87 E-07

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

TABLE IV-D

RADIOLOGICAL IMPACT ON MAN DUE TO LIQUID EFFLUENT RELEASES

CALCULATED RADIATION DOSE COMMITMENTS FOR LIQUID EFFLUENTS:

	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>1996 Annual</u>
A. Maximum Total Body Dose	mrem	3.86 E-03	3.39 E-03	1.43 E-03	7.13 E-03	1.58 E-02
		(a)	(a)	(a)	(a)	(a)
Percent Tech Req limit	%	2.57 E-01	2.26 E-01	9.53 E-02	4.75 E-01	5.27 E-01
B. Maximum Organ Dose	mrem	8.20 E-03	7.27 E-03	3.06 E-03	1.52 E-02	3.37 E-02
		(b)	(b)	(b)	(b)	(b)
Percent Tech Req limit	%	1.64 E-01	1.45 E-01	6.12 E-02	3.04 E-01	3.37 E-01

- (a) Adult
(b) Child - Bone

Note: The quarterly doses listed above were calculated using dose factors from LADTAP and the average dilution flow (cfs) for each respective quarter. Annual doses are the sum of quarterly doses.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1996

V. SOLID WASTE

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

No shipments of radioactive waste were made to a disposal site during the reporting period.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments

None

ADDENDUM

CORRECTIONS TO THE 1995 ARERR

On February 9, 1995, the power supply for the flow dampers in one of the gaseous effluent flow paths was removed in error. A subsequent flow test of this pathway measured a flow rate greater than the default flow rate in use at the time. The power supply for the dampers has since been replaced, but the default flow rate, which is intended to be conservative, has been recalculated to account for the potential loss of the power supply. The new default flow rate was made retroactive to February 9, 1995, and the offsite impact has been reevaluated back to the same date. The effluent flow path involved was only operated intermittently during 1995, resulting in small changes to the effluent data previously reported. The release data affected by the new default flow rate, indicated by shading, is included in the attached pages.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1995

TABLE III-A

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>Est. Total Error, %</u>
A. Fission & Activation Gases (i.e. Noble Gases)						
1. Total Release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	N/A
2. Average Release Rate for period	μCi/sec	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
3. Percent of Tech Req limit	%	N/A	N/A	N/A	N/A	
B. Particulates						
1. Particulates with half-lives>8 days	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	2.5 E+01
2. Average Release Rate for period	μCi/sec	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
3. Percent of Tech Req limit	%	N/A	N/A	N/A	N/A	
4. Gross Alpha radioactivity ¹	Ci	4.24E-08	1.26E-07	4.70E-08	3.78E-07	
C. Tritium						
1. Total Release	Ci	6.95E-01	7.04E-01	2.28E+00	3.91E-01	2.5 E+01
2. Average Release Rate for period	μCi/sec	8.94E-02	8.95E-02	2.87E-01	4.92E-02	
3. Percent of Tech Req limit	%	7.57E-04	7.58E-04	2.43E-03	4.16E-04	

Note 1: Gross alpha activity has been determined to be naturally occurring and not the result of the fuel cycle.

RSNGS ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY - DECEMBER 1995

TABLE III-B

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode			
		<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. Fission Gases (i.e., Noble Gases)					
None					
2. Particulates					
None					
3. Tritium					
H-3	Ci	6.95E-01	7.04E-01	2.28E+00	3.91E-01

NOTE: Batch releases of gaseous effluent are no longer planned to be made from Rancho Seco Nuclear Generating Station.

TABLE III-D

RADIOLOGICAL IMPACT ON MAN DUE TO GASEOUS EFFLUENT RELEASES

CALCULATED RADIATION DOSES AT THE SITE BOUNDARY FOR GASEOUS EFFLUENTS:

	<u>Unit</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>1995 Annual</u>
A. Tritium, Particulate						
1. Maximum Organ Dose	mrem	2.25E-02	2.29E-02	7.38E-02	1.27E-02	1.32E-01
		(a)	(a)	(a)	(a)	(a)
Percent Tech Req limit	%	3.00E-01	3.05E-01	9.84E-01	1.69E-01	8.79E-01
B. Noble Gas						
1. Gamma Air Dose	mrads	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Percent Tech Req limit	%	N/A	N/A	N/A	N/A	N/A
2. Beta Air Dose	mrads	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Percent Tech Req limit	%	N/A	N/A	N/A	N/A	N/A
C. Direct Radiation						
1. Dose (TLD results)	mrem	0.00 E+00*	0.00 E+00*	0.00 E+00*	0.00 E+00*	0.00 E+00*
2. Percent of Tech Req limit	%	N/A	N/A	N/A	N/A	N/A

(a) Child - All Except Bone

NOTE: The quarterly doses listed above were calculated using dose factors from GASPAR and default meteorological data for each quarter. Annual doses are the sum of quarterly doses.

* Averages of all doses at TLD Indicator Stations are less than the averages for all control stations for this Period. None of the Indicator stations indicate significant radiation attributable to Plant operations.