

QUARTERLY CUMULATIVE DOSE CONTRIBUTIONS FROM RADIOACTIVE EFFLUENTS

FIRST QUARTER, 1993

<u>I. LIQUID EFFLUENTS:</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (mREM)</u>
Batch:	1.26E-02	1.66E-02
Continuous:	<u>1.80E-03</u>	<u>6.90E-06</u>
Totals:	1.44E-02	1.66E-02
ODCM Annual Objective:	3.00E+00	1.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.48%	0.17%
Year to Date:	0.48%	0.17%
<u>II. GASEOUS EFFLUENTS:</u>	<u>TOTAL BODY GAMMA DOSE (mREM)</u>	<u>TOTAL BODY BETA DOSE (mREM)</u>
A. Noble Gas Air Dose	6.17E-07	4.19E-07
ODCM Annual Objective:	1.00E+01	2.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.00%	0.00%
Year to Date:	0.00%	0.00%
B. <u>I-131, H-3, and Particulates with Half-Lives > 8 Days</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (Thyroid, mREM)</u>
* Inhalation:	3.96E-08	1.50E-06
* Ground and Food:	<u>5.56E-07</u>	<u>2.55E-04</u>
Totals:	5.96E-07	2.56E-04
ODCM Annual Objective:	1.50E+01	1.50E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.00%	0.00%
Year to Date:	0.00%	0.00%

* Using Highest of Infant or Child Dose Factors

QUARTERLY CUMULATIVE DOSE CONTRIBUTIONS FROM RADIOACTIVE EFFLUENTS

SECOND QUARTER, 1993

<u>I. LIQUID EFFLUENTS:</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (mREM)</u>
Batch:	2.35E-02	3.16E-02
Continuous:	<u>3.65E-04</u>	<u>2.98E-04</u>
Totals:	2.39E-02	3.19E-02
ODCM Annual Objective:	3.00E+00	1.00E+00
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.80%	0.32%
Year to Date:	1.28%	0.49%
<u>II. GASEOUS EFFLUENTS:</u>	<u>TOTAL BODY GAMMA DOSE (mREM)</u>	<u>TOTAL BODY BETA DOSE (mREM)</u>
A. Noble Gas Air Dose	5.97E-07	4.77E-07
ODCM Annual Objective:	1.00E+01	2.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.00%	0.00%
Year to Date:	0.00%	0.00%
B. <u>I-131, H-3, and Particulates with Half-Lives > 8 Days</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (Thyroid, mREM)</u>
* Inhalation:	1.15E-07	1.76E-06
* Ground and Food:	<u>2.19E-05</u>	<u>3.05E-04</u>
Totals:	2.20E-05	3.07E-04
ODCM Annual Objective:	1.50E+01	1.50E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.00%	0.00%
Year to Date:	0.00%	0.00%

* Using Highest of Infant or Child Dose Factors

QUARTERLY CUMULATIVE DOSE CONTRIBUTIONS FROM RADIOACTIVE EFFLUENTS

THIRD QUARTER, 1993

<u>I. LIQUID EFFLUENTS:</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (mREM)</u>
Batch:	1.86E-02	2.61E-02
Continuous:	<u>4.95E-06</u>	<u>9.24E-11</u>
Totals:	1.86E-02	2.61E-02
ODCM Annual Objective:	3.00E+00	1.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.62%	0.26%
Year to Date:	1.90%	0.75%
<u>II. GASEOUS EFFLUENTS:</u>	<u>TOTAL BODY GAMMA DOSE (mREM)</u>	<u>TOTAL BODY BETA DOSE (mREM)</u>
A. Noble Gas Air Dose	1.07E-03	1.32E-03
ODCM Annual Objective:	1.00E+01	2.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.01%	0.01%
Year to Date:	0.01%	0.01%
B. <u>I-131, H-3, and Particulates with Half-Lives > 8 Days</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (Thyroid, mREM)</u>
* Inhalation:	1.04E-04	1.04E-04
* Ground and Food:	<u>8.13E-04</u>	<u>7.40E-04</u>
Totals:	9.17E-04	8.44E-04
ODCM Annual Objective:	1.50E+01	1.50E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.01%	0.01%
Year to Date:	0.01%	0.01%

* Using Highest of Infant or Child Dose Factors

QUARTERLY CUMULATIVE DOSE CONTRIBUTIONS FROM RADIOACTIVE EFFLUENTS

FOURTH QUARTER, 1993

<u>I. LIQUID EFFLUENTS:</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (mREM)</u>
Batch:	2.29E-02	3.23E-02
Continuous:	<u>1.29E-04</u>	<u>1.99E-04</u>
Totals:	2.30E-02	3.25E-02
ODCM Annual Objective:	3.00E+00	1.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.77%	0.32%
Year to Date:	2.67%	1.07%
<u>II. GASEOUS EFFLUENTS:</u>	<u>TOTAL BODY GAMMA DOSE (mREM)</u>	<u>TOTAL BODY BETA DOSE (mREM)</u>
A. Noble Gas Air Dose	2.90E-04	4.42E-04
ODCM Annual Objective:	1.00E+01	2.00E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.00%	0.00%
Year to Date:	0.01%	0.01%
B. <u>I-131, H-3, and Particulates with Half-Lives > 8 Days</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (Thyroid, mREM)</u>
* Inhalation:	1.36E-04	1.83E-04
* Ground and Food:	<u>1.01E-03</u>	<u>9.73E-03</u>
Totals:	1.15E-03	9.91E-03
ODCM Annual Objective:	1.50E+01	1.50E+01
<u>Percent of ODCM Annual Objective:</u>		
This Quarter:	0.01%	0.07%
Year to Date:	0.02%	0.08%

* Using Highest of Infant or Child Dose Factors

Radioactive Effluent Releases - First, Second, Third, and Fourth Quarters 1993

GASEOUS EFFLUENTS

Radioactive gaseous releases for the reporting period totaled $9.25\text{E}+00$ Curies of inert gas. The gross gaseous activity release rates were $2.16\text{E}-04$ $\mu\text{Ci/sec}$ for the first quarter, $2.67\text{E}-04$ $\mu\text{Ci/sec}$ for the second quarter, $8.64\text{E}-01$ $\mu\text{Ci/sec}$ for the third quarter, and $3.00\text{E}-01$ $\mu\text{Ci/sec}$ for the fourth quarter.

Radioactive halogens and particulates with half-lives greater than eight days released during the reporting period totaled $2.34\text{E}-05$ Curies. The halogen release rates were $7.33\text{E}-08$ $\mu\text{Ci/sec}$ for the first quarter, $8.56\text{E}-08$ $\mu\text{Ci/sec}$ for the second quarter, $0.00\text{E}+00$ $\mu\text{Ci/sec}$ for the third quarter, and $2.52\text{E}-06$ $\mu\text{Ci/sec}$ for the fourth quarter. The release rate for particulates with half lives greater than 8 days were $0.00\text{E}+00$ $\mu\text{Ci/sec}$ for the first quarter, $1.10\text{E}-07$ $\mu\text{Ci/sec}$ for the second quarter, $1.16\text{E}-07$ $\mu\text{Ci/sec}$ for the third quarter and $5.00\text{E}-08$ $\mu\text{Ci/sec}$ for the fourth quarter.

Total radioactive tritium released during the reporting period totaled $1.19\text{E}+00$ Curies. Gross alpha radioactivity released during the reporting period totaled $5.67\text{E}-06$ Curies.

TABLE 1A
EFFLUENT AND WASTE DISPOSAL REPORT
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES
SECOND QUARTER, 1993

<u>Nuclides(Ci)</u>	<u>Cont</u>	<u>WGDT</u>	<u>RM-060</u>	<u>RM-041</u>	<u>RM-057</u>	<u>Total</u>
A. Fission & Activation Gases						
Total Release (Ci):	2.10E-03	1.51E-07	0.00E+00	0.00E+00	0.00E+00	2.10E-03
Avg. Release Rate for period (uCi/sec):	2.67E-04	1.93E-08	0.00E+00	0.00E+00	0.00E+00	2.67E-04
Percent of ODCM Limit (%):						*
B. Iodines						
Total Release (Ci):	0.00E+00	0.00E+00	3.49E-07	3.24E-07	0.00E+00	6.73E-07
Avg. Release Rate for period (uCi/sec):	0.00E+00	0.00E+00	4.44E-08	4.12E-08	0.00E+00	8.56E-08
Percent of ODCM Limit (%):						*
C. Particulates						
Total Release (Ci):	0.00E+00	0.00E+00	0.00E+00	8.63E-07	0.00E+00	8.63E-07
Avg. Release Rate for period (uCi/sec):	0.00E+00	0.00E+00	0.00E+00	1.10E-07	0.00E+00	1.10E-07
Percent of ODCM Limit (%):						*
D. Gross Alpha						
	0.00E+00	0.00E+00	1.81E-06	1.68E-07	0.00E+00	1.98E-06
E. Tritium						
Total Release (Ci):	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
Avg. Release Rate for period (uCi/sec):	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
Percent of ODCM Limit (%):						*

NOTE: Applicable Limits are expressed in terms of Dose. See Tables on pages I-3 through I-6 of this report.

TABLE 1A
EFFLUENT AND WASTE DISPOSAL REPORT
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES
FOURTH QUARTER, 1993

<u>Nuclides(Ci)</u>	<u>Cont</u>	<u>WGDT</u>	<u>RM-060</u>	<u>RM-041</u>	<u>RM-057</u>	<u>Total</u>
A. Fission & Activation Gases						
Total Release (Ci):	2.01E+00	3.80E-01	0.00E+00	0.00E+00	0.00E+00	2.39E+00
Avg. Release Rate for period (uCi/sec):	2.52E-01	4.79E-02	0.00E+00	0.00E+00	0.00E+00	3.00E-01
Percent of ODCM Limit (%):						*
B. Iodines						
Total Release (Ci):	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05
Avg. Release Rate for period (uCi/sec):	0.00E+00	0.00E+00	2.52E-06	0.00E+00	0.00E+00	2.52E-06
Percent of ODCM Limit (%):						*
C. Particulates						
Total Release (Ci):	0.00E+00	0.00E+00	2.44E-07	1.54E-07	0.00E+00	3.97E-07
Avg. Release Rate for period (uCi/sec):	0.00E+00	0.00E+00	3.07E-08	1.93E-08	0.00E+00	5.00E-08
Percent of ODCM Limit (%):						*
D. Gross Alpha						
	0.00E+00	0.00E+00	2.52E-06	2.49E-08	0.00E+00	2.54E-06
E. Tritium						
Total Release (Ci):	6.75E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-01
Avg. Release Rate for period (uCi/sec):	8.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-02
Percent of ODCM Limit (%):						*

NOTE: Applicable Limits are expressed in terms of Dose. See Tables on pages I-3 through I-6 of this report.

TABLE 1C

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SECOND QUARTER, 1993

Nuclides(Ci)	Cont	WGDT	RM-060	RM-041	RM-057	Total
Fission & Activation Gases						
Argon-41	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
Krypton-85	0.00E+00	1.51E-07	0.00E+00	0.00E+00	0.00E+00	1.51E-07
Krypton-85M	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-07
Xenon-133	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
Xenon-133M	5.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06
Xenon-135	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
Total for Period:	2.10E-03	1.51E-07	0.00E+00	0.00E+00	0.00E+00	2.10E-03
Iodines						
Iodine-131	0.00E+00	0.00E+00	3.49E-07	3.24E-07	0.00E+00	6.73E-07
Total for Period:	0.00E+00	0.00E+00	3.49E-07	3.24E-07	0.00E+00	6.73E-07
Particulates						
Cesium-137	0.00E+00	0.00E+00	0.00E+00	7.34E-07	0.00E+00	7.34E-07
Strontium-90	0.00E+00	0.00E+00	0.00E+00	6.44E-08	0.00E+00	6.44E-08
Yttrium-90	0.00E+00	0.00E+00	0.00E+00	6.44E-08	0.00E+00	6.44E-08
Total for Period:	0.00E+00	0.00E+00	0.00E+00	8.63E-07	0.00E+00	8.63E-07
Tritium and Gross Alpha						
Tritium	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
Gross Alpha	0.00E+00	0.00E+00	1.81E-06	1.68E-07	0.00E+00	1.98E-06

NOTE: Nuclides not displayed or reported as 0.00E+00 were determined to be below the Lower Limit of Detection (LLD) values.

TABLE 1C

EFFLUENT AND WASTE DISPOSAL REPORT
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES
FOURTH QUARTER, 1993

Nuclides(Ci)	Cont	WGDT	RM-060	RM-041	RM-057	Total
Fission & Activation Gases						
Argon-41	1.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-01
Krypton-85M	7.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04
Xenon-131M	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	3.41E-03
Xenon-133	1.86E+00	3.76E-01	0.00E+00	0.00E+00	0.00E+00	2.24E+00
Xenon-133M	6.09E-03	1.09E-03	0.00E+00	0.00E+00	0.00E+00	7.18E-03
Xenon-135	2.90E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-02
Total for Period:	2.01E+00	3.80E-01	0.00E+00	0.00E+00	0.00E+00	2.39E+00
Iodines						
Iodine-131	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05
Total for Period:	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05
Particulates						
Strontium-90	0.00E+00	0.00E+00	1.22E-07	7.68E-08	0.00E+00	1.99E-07
Yttrium-90	0.00E+00	0.00E+00	1.22E-07	7.68E-08	0.00E+00	1.99E-07
Total for Period:	0.00E+00	0.00E+00	2.44E-07	1.54E-07	0.00E+00	3.97E-07
Tritium and Gross Alpha						
Tritium	6.75E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-01
Gross Alpha	0.00E+00	0.00E+00	2.52E-06	2.49E-08	0.00E+00	2.54E-06

NOTE: Nuclides not displayed or reported as 0.00E+00 were determined to be below the Lower Limit of Detection (LID) values.

Radioactive Effluent Releases - First, Second, Third, and Fourth Quarters 1993

LIQUID EFFLUENTS

During the reporting period, a total of $5.19\text{E-}01$ Curies of radioactive liquid materials less tritium, dissolved noble gases, and alpha were released to the Missouri River at an average concentration of $4.27\text{E-}10$ $\mu\text{Ci/ml}$. This represents $4.27\text{E-}02\%$ of the limits specified in Appendix B to 10 CFR Part 20 ($1.0\text{E-}06$ $\mu\text{Ci/ml}$ for unrestricted areas). $2.39\text{E+}02$ Curies of tritium were discharged at an average diluted concentration $1.96\text{E-}07$ $\mu\text{Ci/ml}$ or $1.96\text{E-}02\%$ of WEC ($1.0\text{E-}03$ $\mu\text{Ci/ml}$). Gross alpha radioactivity released during the reporting period totaled $2.76\text{E-}03$ Curies.

Dilution water during the period amounted to $1.22\text{E+}12$ liters, while radioactive liquid waste volume was $1.35\text{E+}08$ liters.

TABLE 2A
EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES
JANUARY THROUGH DECEMBER 1993

	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
A. Fission & Activation Products				
Total Release (No Tritium, Gas, Alpha) (Ci):	1.29E-02	2.52E-02	1.08E-01	3.73E-01
Avg Diluted Concentration (uCi/ml):	3.50E-11	7.37E-11	2.95E-10	2.67E-09
Percent of Limit 10 CFR 20, App. B = 1.0E-06 (%):	3.50E-03	7.37E-03	2.95E-02	2.67E-01
B. Tritium				
Total Release (Ci):	4.02E+01	8.52E+01	7.94E+01	3.39E+01
Avg Diluted Concentration (uCi/ml):	1.10E-07	2.49E-07	2.16E-07	2.43E-07
Percent of Limit 10 CFR 20, App. B = 1.0E-03 (%):	1.10E-02	2.49E-02	2.16E-02	2.43E-02
C. Dissolved & Entrained Gases				
Total Release (Ci):	2.22E-03	1.27E-02	7.94E-02	1.10E-02
Avg Diluted Concentration (uCi/ml):	6.07E-12	3.71E-11	2.16E-10	7.88E-11
Percent of Limit ODCM = 2.0E-04 (%):	3.03E-06	1.86E-05	1.08E-04	3.94E-05
D. Gross Alpha Radioactivity				
Total Release (Ci):	2.99E-06	1.42E-04	3.52E-04	2.26E-03
E. Volume of Waste Released				
Prior to Dilution (Liters):	3.88E+07	3.90E+07	3.76E+07	1.95E+07
F. Volume of Dilution Water				
This Period (Liters):	3.67E+11	3.42E+11	3.67E+11	1.39E+11

TABLE 2B

EFFLUENT AND WASTE DISPOSAL REPORT

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

FIRST QUARTER, 1993

<u>Nuclides(Ci)</u>	<u>Continuous</u>	<u>Batch</u>
Fission & Activation Products		
Silver-110M	0.00E+00	2.75E-04
Beryllium-7	0.00E+00	7.02E-05
Carbon-14	0.00E+00	2.03E-04
Cobalt-58	0.00E+00	2.48E-04
Cobalt-60	0.00E+00	2.96E-04
Chromium-51	0.00E+00	2.13E-05
Cesium-134	0.00E+00	4.67E-04
Cesium-137	0.00E+00	1.13E-03
Iron-55	0.00E+00	5.41E-03
Iodine-131	0.00E+00	7.14E-05
Lanthanum-140	0.00E+00	3.45E-06
Manganese-54	0.00E+00	2.90E-05
Niobium-95	0.00E+00	7.36E-05
Rhodium-106	0.00E+00	8.47E-06
Ruthenium-106	0.00E+00	8.47E-06
Antimony-122	0.00E+00	1.37E-06
Antimony-124	0.00E+00	6.69E-06
Antimony-125	0.00E+00	3.27E-03
Tin-113	0.00E+00	4.07E-06
Strontium-89	0.00E+00	4.19E-05
Strontium-90	5.89E-04	0.00E+00
Yttrium-90	5.89E-04	0.00E+00
Zirconium-95	0.00E+00	3.82E-05
Total for Period:	1.18E-03	1.17E-02
Dissolved & Entrained Gases		
Argon-41	0.00E+00	4.65E-06
Krypton-85M	0.00E+00	2.99E-06
Krypton-87	0.00E+00	5.16E-06
Krypton-88	0.00E+00	8.42E-06
Xenon-133	0.00E+00	2.17E-03
Xenon-135	0.00E+00	2.89E-05
Xenon-135M	0.00E+00	7.48E-06
Total for Period:	0.00E+00	2.22E-03
Other, Tritium and Alpha		
Tritium	4.70E-02	4.02E+01
Alpha	0.00E+00	2.99E-06

NOTE: Nuclides not displayed or reported as 0.00E+00 were determined to be below the Lower Limit of Detection (LLD) values.

TABLE 2B
EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES
SECOND QUARTER, 1993

Nuclides(Ci)	Continuous	Batch
Fission & Activation Products		
Silver-110M	0.00E+00	1.07E-03
Beryllium-7	0.00E+00	9.22E-06
Carbon-14	0.00E+00	2.14E-04
Cobalt-57	0.00E+00	2.18E-05
Cobalt-58	0.00E+00	1.08E-03
Cobalt-60	0.00E+00	2.40E-03
Chromium-51	0.00E+00	1.73E-04
Cesium-134	0.00E+00	3.92E-04
Cesium-137	4.07E-05	1.80E-03
Iron-55	0.00E+00	1.09E-02
Iodine-129	0.00E+00	7.43E-06
Iodine-131	0.00E+00	4.39E-05
Iodine-133	0.00E+00	1.21E-06
Lanthanum-140	0.00E+00	1.18E-05
Manganese-54	0.00E+00	9.61E-05
Molybdenum-99	0.00E+00	1.22E-06
Niobium-95	0.00E+00	2.62E-04
Rhodium-106	0.00E+00	9.72E-05
Ruthenium-106	0.00E+00	9.72E-05
Antimony-122	0.00E+00	1.14E-06
Antimony-124	0.00E+00	5.04E-06
Antimony-125	0.00E+00	6.01E-03
Strontium-89	0.00E+00	2.02E-05
Strontium-90	8.44E-05	2.89E-05
Technetium-99M	0.00E+00	1.22E-06
Yttrium-90	8.44E-05	2.89E-05
Zirconium-95	0.00E+00	2.03E-04
Total for Period:	2.70E-04	2.50E-02
Dissolved & Entrained Gases		
Xenon-133	0.00E+00	1.26E-02
Xenon-133M	0.00E+00	1.18E-05
Xenon-135	0.00E+00	4.58E-05
Total for Period:	0.00E+00	1.27E-02
Other, Tritium and Alpha		
Tritium	1.63E-02	8.52E+01
Alpha	0.00E+00	1.42E-04

NOTE: Nuclides not displayed or reported as 0.00E+00 were determined to be below the Lower Limit of Detection (LLD) values.

TABLE 2B

EFFLUENT AND WASTE DISPOSAL REPORT

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

THIRD QUARTER, 1993

Nuclides(Ci)	Continuous	Batch
Fission & Activation Products		
Silver-110M	0.00E+00	5.17E-05
Barium-140	0.00E+00	4.28E-05
Carbon-14	0.00E+00	4.06E-04
Cobalt-58	0.00E+00	4.95E-04
Cobalt-60	0.00E+00	4.88E-04
Chromium-51	0.00E+00	2.35E-05
Cesium-134	0.00E+00	2.27E-04
Cesium-137	0.00E+00	1.59E-03
Iron-55	0.00E+00	9.48E-02
Iodine-129	0.00E+00	3.82E-05
Iodine-131	0.00E+00	5.24E-03
Iodine-133	0.00E+00	1.44E-04
Lanthanum-140	0.00E+00	1.17E-04
Manganese-54	0.00E+00	5.11E-05
Molybdenum-99	0.00E+00	7.50E-06
Niobium-95	0.00E+00	1.62E-05
Nickel-63	0.00E+00	4.54E-04
Phosphorus-32	0.00E+00	1.19E-05
Antimony-122	0.00E+00	6.51E-07
Antimony-125	0.00E+00	3.69E-03
Strontium-89	1.31E-04	1.11E-04
Strontium-90	0.00E+00	1.66E-05
Technetium-99M	0.00E+00	7.50E-06
Yttrium-90	0.00E+00	1.66E-05
Zirconium-95	0.00E+00	1.13E-05
Total for Period:	1.31E-04	1.08E-01
Dissolved & Entrained Gases		
Krypton-85M	0.00E+00	2.39E-06
Xenon-131M	0.00E+00	3.77E-05
Xenon-133	0.00E+00	7.80E-02
Xenon-133M	0.00E+00	6.52E-04
Xenon-135	0.00E+00	6.23E-04
Total for Period:	0.00E+00	7.94E-02
Other, Tritium and Alpha		
Tritium	0.00E+00	7.94E+01
Alpha	0.00E+00	3.52E-04

NOTE: Nuclides not displayed or reported as 0.00E+00 were determined to be below the Lower Limit of Detection (LLD) values.

TABLE 2B

EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES
FOURTH QUARTER, 1993

Nuclides(Ci)	Batch	
	Continuous	Batch
Fission & Activation Products		
Silver-110M	0.00E+00	3.06E-03
Barium-140	0.00E+00	1.20E-04
Carbon-14	0.00E+00	7.08E-04
Cerium-141	0.00E+00	1.10E-04
Cerium-144	0.00E+00	1.86E-04
Cobalt-57	0.00E+00	1.51E-04
Cobalt-58	0.00E+00	1.19E-01
Cobalt-60	0.00E+00	2.82E-03
Chromium-51	0.00E+00	1.43E-02
Cesium-134	0.00E+00	2.05E-04
Cesium-137	2.09E-05	1.74E-03
Iron-55	0.00E+00	1.27E-01
Iron-59	0.00E+00	2.36E-04
Hafnium-181	0.00E+00	4.82E-05
Iodine-129	0.00E+00	3.62E-05
Iodine-131	0.00E+00	2.54E-03
Iodine-132	0.00E+00	2.06E-05
Iodine-133	0.00E+00	9.28E-05
Lanthanum-140	0.00E+00	7.56E-04
Lanthanum-141	0.00E+00	4.52E-05
Manganese-54	0.00E+00	6.69E-04
Molybdenum-99	0.00E+00	2.39E-05
Niobium-95	0.00E+00	5.68E-03
Nickel-63	0.00E+00	1.67E-05
Praseodymium-144	0.00E+00	1.86E-04
Rhodium-103M	0.00E+00	2.77E-04
Ruthenium-103	0.00E+00	2.77E-04
Antimony-122	0.00E+00	2.92E-04
Antimony-124	0.00E+00	1.88E-02
Antimony-125	0.00E+00	6.76E-02
Antimony-126	0.00E+00	4.65E-04
Selenium-75	0.00E+00	1.01E-03
Tin-113	0.00E+00	2.04E-04
Strontium-89	0.00E+00	3.01E-04
Strontium-90	0.00E+00	5.04E-05
Technetium-99M	0.00E+00	2.39E-05
Tellurium-132	0.00E+00	2.11E-05
Yttrium-90	0.00E+00	5.04E-05
Zinc-65	0.00E+00	4.07E-05
Zirconium-95	0.00E+00	3.68E-03
Total for Period:	2.09E-05	3.73E-01
Dissolved & Entrained Gases		
Xenon-133	0.00E+00	1.10E-02
Xenon-133M	0.00E+00	3.35E-05
Total for Period:	0.00E+00	1.10E-02

IV-7

R2, 12-12-94

Other, Tritium and Alpha

Tritium

Alpha

4.99E-02

0.00E+00

3.38E+01

2.26E-03

NOTE: Nuclides not displayed or reported as 0.00E+00 were determined to be below the Lower Limit of Detection (LLD) values.

TABLE VII-A-1

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 1 RES, VEG
AT 4.58 MILES N

ANNUAL BETA AIR DOSE = 5.33E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.73E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.68E-05	1.68E-05	1.68E-05	1.68E-05	1.68E-05	1.68E-05	1.73E-05	3.92E-05
GROUND	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.37E-07
VEGET								
ADULT	1.56E-05	1.49E-05	3.19E-06	1.48E-05	1.48E-05	2.87E-05	1.47E-05	1.47E-05
TEEN	1.80E-05	1.71E-05	4.24E-06	1.70E-05	1.70E-05	3.44E-05	1.69E-05	1.68E-05
CHILD	2.84E-05	2.63E-05	8.70E-06	2.64E-05	2.63E-05	5.90E-05	2.61E-05	2.61E-05
MEAT								
ADULT	2.13E-06	2.12E-06	5.43E-08	2.12E-06	2.12E-06	2.74E-06	2.11E-06	2.11E-06
TEEN	1.27E-06	1.26E-06	3.85E-08	1.27E-06	1.27E-06	1.72E-06	1.26E-06	1.26E-06
CHILD	1.54E-06	1.52E-06	6.29E-08	1.53E-06	1.53E-06	2.21E-06	1.52E-06	1.52E-06
COW MILK								
ADULT	5.09E-06	4.99E-06	2.66E-07	5.09E-06	5.08E-06	2.23E-05	4.97E-06	4.96E-06
TEEN	6.63E-06	6.50E-06	4.28E-07	6.69E-06	6.67E-06	3.39E-05	6.48E-06	6.47E-06
CHILD	1.05E-05	1.02E-05	9.47E-07	1.06E-05	1.06E-05	6.44E-05	1.02E-05	1.02E-05
INFANT	1.59E-05	1.55E-05	1.32E-06	1.63E-05	1.61E-05	1.47E-04	1.55E-05	1.55E-05
GOATMILK								
ADULT	1.04E-05	1.02E-05	5.74E-07	1.04E-05	1.03E-05	3.10E-05	1.02E-05	1.01E-05
TEEN	1.35E-05	1.32E-05	9.26E-07	1.37E-05	1.35E-05	4.61E-05	1.32E-05	1.32E-05
CHILD	2.14E-05	2.09E-05	2.05E-06	2.17E-05	2.14E-05	8.59E-05	2.09E-05	2.08E-05
INFANT	3.23E-05	3.17E-05	2.80E-06	3.34E-05	3.25E-05	1.90E-04	3.18E-05	3.16E-05
INHAL								
ADULT	8.16E-06	8.15E-06	1.55E-07	8.15E-06	8.15E-06	9.34E-06	8.18E-06	8.15E-06
TEEN	8.21E-06	8.20E-06	1.79E-07	8.21E-06	8.21E-06	9.67E-06	8.25E-06	8.20E-06
CHILD	7.27E-06	7.25E-06	2.09E-07	7.26E-06	7.26E-06	8.88E-06	7.29E-06	7.25E-06
INFANT	4.18E-06	4.17E-06	8.71E-08	4.18E-06	4.17E-06	5.66E-06	4.20E-06	4.17E-06

TABLE VII-A-2

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 2 RES, VEG
AT 1.86 MILES NNE

ANNUAL BETA AIR DOSE = 3.16E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.96E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIV'R	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.23E-04	1.23E-04	1.23E-04	1.23E-04	1.23E-04	1.23E-04	1.26E-04	2.66E-04
GROUND	6.71E-07	6.71E-07	6.71E-07	6.71E-07	6.71E-07	6.71E-07	6.71E-07	7.83E-07
VEGET								
ADULT	8.74E-05	8.33E-05	1.82E-05	8.29E-05	8.28E-05	1.62E-04	8.23E-05	8.22E-05
TEEN	1.01E-04	9.54E-05	2.42E-05	9.52E-05	9.50E-05	1.95E-04	9.42E-05	9.41E-05
CHILD	1.59E-04	1.47E-04	4.96E-05	1.48E-04	1.47E-04	3.34E-04	1.46E-04	1.46E-04
MEAT								
ADULT	1.19E-05	1.18E-05	3.10E-07	1.19E-05	1.19E-05	1.54E-05	1.18E-05	1.18E-05
TEEN	7.12E-06	7.06E-06	2.20E-07	7.10E-06	7.08E-06	9.66E-06	7.05E-06	7.05E-06
CHILD	8.61E-06	8.52E-06	3.58E-07	8.58E-06	8.55E-06	1.25E-05	8.52E-06	8.51E-06
COW MILK								
ADULT	2.85E-05	2.79E-05	1.52E-06	2.85E-05	2.84E-05	1.27E-04	2.78E-05	2.77E-05
TEEN	3.71E-05	3.63E-05	2.44E-06	3.74E-05	3.73E-05	1.93E-04	3.62E-05	3.61E-05
CHILD	5.87E-05	5.73E-05	5.40E-06	5.93E-05	5.91E-05	3.68E-04	5.73E-05	5.71E-05
INFANT	8.88E-05	8.68E-05	7.54E-06	9.14E-05	9.00E-05	8.41E-04	8.69E-05	8.66E-05
GOATMILK								
ADULT	5.82E-05	5.68E-05	3.27E-06	5.82E-05	5.77E-05	1.76E-04	5.67E-05	5.66E-05
TEEN	7.57E-05	7.41E-05	5.28E-06	7.66E-05	7.56E-05	2.62E-04	7.40E-05	7.37E-05
CHILD	1.19E-04	1.17E-04	1.17E-05	1.21E-04	1.20E-04	4.89E-04	1.17E-04	1.17E-04
INFANT	1.80E-04	1.77E-04	1.60E-05	1.87E-04	1.82E-04	1.08E-03	1.78E-04	1.77E-04
INHAL								
ADULT	4.56E-05	4.56E-05	9.58E-07	4.56E-05	4.56E-05	5.26E-05	4.57E-05	4.55E-05
TEEN	4.59E-05	4.59E-05	1.11E-06	4.59E-05	4.59E-05	5.45E-05	4.61E-05	4.58E-05
CHILD	4.06E-05	4.05E-05	1.30E-06	4.06E-05	4.06E-05	5.01E-05	4.08E-05	4.05E-05
INFANT	2.34E-05	2.33E-05	5.39E-07	2.33E-05	2.33E-05	3.21E-05	2.35E-05	2.33E-05

TABLE VII-A-3

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 3 RES
 AT 1.47 MILES NE

ANNUAL BETA AIR DOSE = 4.78E-04 MILLRADS
 ANNUAL GAMMA AIR DOSE = 3.07E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.97E-04	4.12E-04
GROUND	9.70E-07	9.70E-07	9.70E-07	9.70E-07	9.70E-07	9.70E-07	9.70E-07	1.13E-06
VEGET								
ADULT	1.30E-04	1.25E-04	2.63E-05	1.24E-04	1.24E-04	2.39E-04	1.23E-04	1.23E-04
TEEN	1.50E-04	1.43E-04	3.50E-05	1.42E-04	1.42E-04	2.87E-04	1.41E-04	1.41E-04
CHILD	2.37E-04	2.20E-04	7.17E-05	2.21E-04	2.20E-04	4.91E-04	2.18E-04	2.18E-04
MEAT								
ADULT	1.78E-05	1.77E-05	4.48E-07	1.78E-05	1.77E-05	2.29E-05	1.77E-05	1.77E-05
TEEN	1.06E-05	1.06E-05	3.18E-07	1.06E-05	1.06E-05	1.43E-05	1.06E-05	1.05E-05
CHILD	1.29E-05	1.27E-05	5.19E-07	1.28E-05	1.28E-05	1.84E-05	1.27E-05	1.27E-05
COW MILK								
ADULT	4.25E-05	4.17E-05	2.19E-06	4.25E-05	4.25E-05	1.85E-04	4.16E-05	4.15E-05
TEEN	5.54E-05	5.44E-05	3.53E-06	5.59E-05	5.58E-05	2.82E-04	5.42E-05	5.41E-05
CHILD	8.77E-05	8.57E-05	7.81E-06	8.86E-05	8.83E-05	5.35E-04	8.56E-05	8.54E-05
INFANT	1.33E-04	1.30E-04	1.09E-05	1.37E-04	1.34E-04	1.22E-03	1.30E-04	1.30E-04
GOATMILK								
ADULT	8.70E-05	8.50E-05	4.73E-06	8.70E-05	8.62E-05	2.57E-04	8.49E-05	8.47E-05
TEEN	1.13E-04	1.11E-04	7.64E-06	1.14E-04	1.13E-04	3.83E-04	1.11E-04	1.10E-04
CHILD	1.79E-04	1.75E-04	1.69E-05	1.81E-04	1.79E-04	7.14E-04	1.75E-04	1.74E-04
INFANT	2.70E-04	2.65E-04	2.31E-05	2.79E-04	2.72E-04	1.58E-03	2.66E-04	2.64E-04
INHAL								
ADULT	6.83E-05	6.82E-05	1.46E-06	6.82E-05	6.82E-05	7.88E-05	6.84E-05	6.81E-05
TEEN	6.87E-05	6.86E-05	1.70E-06	6.86E-05	6.86E-05	8.16E-05	6.90E-05	6.86E-05
CHILD	6.08E-05	6.06E-05	1.98E-06	6.07E-05	6.07E-05	7.51E-05	6.11E-05	6.06E-05
INFANT	3.49E-05	3.49E-05	8.23E-07	3.49E-05	3.49E-05	4.81E-05	3.52E-05	3.49E-05

TABLE VII-A-4

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 4 VEG
AT 3.32 MILES NE

ANNUAL BETA AIR DOSE = 8.24E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.40E-05 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.72E-05	2.72E-05	2.72E-05	2.72E-05	2.72E-05	2.72E-05	2.80E-05	6.23E-05
GROUND	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.63E-07
VEGET								
ADULT	2.35E-05	2.27E-05	3.80E-06	2.26E-05	2.26E-05	3.91E-05	2.25E-05	2.24E-05
TEEN	2.71E-05	2.60E-05	5.05E-06	2.59E-05	2.59E-05	4.66E-05	2.57E-05	2.57E-05
CHILD	4.26E-05	4.00E-05	1.03E-05	4.02E-05	4.01E-05	7.90E-05	3.98E-05	3.98E-05
MEAT								
ADULT	3.25E-06	3.23E-06	6.46E-08	3.24E-06	3.23E-06	3.98E-06	3.23E-06	3.23E-06
TEEN	1.94E-06	1.93E-06	4.58E-08	1.93E-06	1.93E-06	2.47E-06	1.93E-06	1.92E-06
CHILD	2.34E-06	2.33E-06	7.48E-08	2.34E-06	2.33E-06	3.14E-06	2.33E-06	2.32E-06
COW MILK								
ADULT	7.72E-06	7.61E-06	3.16E-07	7.73E-06	7.71E-06	2.82E-05	7.59E-06	7.58E-06
TEEN	1.01E-05	9.91E-06	5.10E-07	1.01E-05	1.01E-05	4.26E-05	9.89E-06	9.87E-06
CHILD	1.59E-05	1.56E-05	1.13E-06	1.61E-05	1.60E-05	8.01E-05	1.56E-05	1.56E-05
INFANT	2.41E-05	2.37E-05	1.57E-06	2.47E-05	2.44E-05	1.80E-04	2.37E-05	2.37E-05
GOATMILK								
ADULT	1.58E-05	1.55E-05	6.82E-07	1.58E-05	1.57E-05	4.03E-05	1.55E-05	1.55E-05
TEEN	2.05E-05	2.02E-05	1.10E-06	2.07E-05	2.05E-05	5.94E-05	2.02E-05	2.01E-05
CHILD	3.24E-05	3.19E-05	2.44E-06	3.28E-05	3.25E-05	1.09E-04	3.19E-05	3.18E-05
INFANT	4.90E-05	4.83E-05	3.33E-06	5.04E-05	4.93E-05	2.36E-04	4.84E-05	4.83E-05
INHAL								
ADULT	1.25E-05	1.24E-05	2.46E-07	1.24E-05	1.24E-05	1.43E-05	1.25E-05	1.24E-05
TEEN	1.25E-05	1.25E-05	2.85E-07	1.25E-05	1.25E-05	1.48E-05	1.26E-05	1.25E-05
CHILD	1.11E-05	1.11E-05	3.33E-07	1.11E-05	1.11E-05	1.36E-05	1.11E-05	1.11E-05
INFANT	6.37E-06	6.36E-06	1.39E-07	6.37E-06	6.37E-06	8.68E-06	6.42E-06	6.36E-06

TABLE VII-A-5

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 5 RES. VEG
 AT 4.79 MILES ENE

ANNUAL BETA AIR DOSE = 4.61E-05 MILLRADS
 ANNUAL GAMMA AIR DOSE = 1.98E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.24E-05	3.01E-05
GROUND	4.91E-08	4.91E-08	4.91E-08	4.91E-08	4.91E-08	4.91E-08	4.91E-08	5.73E-08
VEGET								
ADULT	1.37E-05	1.34E-05	1.33E-06	1.34E-05	1.34E-05	1.91E-05	1.33E-05	1.33E-05
TEEN	1.58E-05	1.54E-05	1.77E-06	1.53E-05	1.53E-05	2.26E-05	1.53E-05	1.53E-05
CHILD	2.46E-05	2.37E-05	3.63E-06	2.38E-05	2.37E-05	3.73E-05	2.36E-05	2.36E-05
MEAT								
ADULT	1.92E-06	1.92E-06	2.27E-08	1.92E-06	1.92E-06	2.18E-06	1.92E-06	1.92E-06
TEEN	1.15E-06	1.14E-06	1.61E-08	1.15E-06	1.14E-06	1.33E-06	1.14E-06	1.14E-06
CHILD	1.39E-06	1.38E-06	2.63E-08	1.39E-06	1.38E-06	1.67E-06	1.38E-06	1.38E-06
COW MILK								
ADULT	4.55E-06	4.51E-06	1.11E-07	4.55E-06	4.55E-06	1.17E-05	4.50E-06	4.50E-06
TEEN	5.93E-06	5.87E-06	1.79E-07	5.95E-06	5.95E-06	1.72E-05	5.87E-06	5.86E-06
CHILD	9.37E-06	9.27E-06	3.95E-07	9.42E-06	9.40E-06	3.17E-05	9.27E-06	9.26E-06
INFANT	1.42E-05	1.41E-05	5.50E-07	1.44E-05	1.43E-05	6.87E-05	1.41E-05	1.40E-05
GOATMILK								
ADULT	9.29E-06	9.20E-06	2.39E-07	9.30E-06	9.25E-06	1.78E-05	9.19E-06	9.18E-06
TEEN	1.21E-05	1.20E-05	3.86E-07	1.22E-05	1.21E-05	2.56E-05	1.20E-05	1.20E-05
CHILD	1.91E-05	1.89E-05	8.55E-07	1.93E-05	1.91E-05	4.59E-05	1.89E-05	1.89E-05
INFANT	2.89E-05	2.87E-05	1.17E-06	2.94E-05	2.90E-05	9.42E-05	2.87E-05	2.87E-05
INHAL								
ADULT	7.40E-06	7.39E-06	1.40E-07	7.39E-06	7.39E-06	8.46E-06	7.41E-06	7.38E-06
TEEN	7.44E-06	7.44E-06	1.62E-07	7.44E-06	7.44E-06	8.75E-06	7.48E-06	7.43E-06
CHILD	6.59E-06	6.57E-06	1.89E-07	6.58E-06	6.58E-06	8.04E-06	6.61E-06	6.57E-06
INFANT	3.79E-06	3.78E-06	7.88E-08	3.78E-06	3.78E-06	5.12E-06	3.81E-06	3.78E-06

TABLE VII-A-6

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 6 RES
AT 4.67 MILES E

ANNUAL BETA AIR DOSE = 7.24E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.28E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.99E-05	1.99E-05	1.99E-05	1.99E-05	1.99E-05	1.99E-05	2.06E-05	4.90E-05
GROUND	7.75E-08	7.75E-08	7.75E-08	7.75E-08	7.75E-08	7.75E-08	7.75E-08	9.05E-08
VEGET								
ADULT	2.12E-05	2.08E-05	2.10E-06	2.07E-05	2.07E-05	2.98E-05	2.06E-05	2.06E-05
TEEN	2.44E-05	2.38E-05	2.80E-06	2.38E-05	2.37E-05	3.52E-05	2.36E-05	2.36E-05
CHILD	3.81E-05	3.67E-05	5.73E-06	3.68E-05	3.68E-05	5.82E-05	3.66E-05	3.66E-05
MEAT								
ADULT	2.98E-06	2.97E-06	3.58E-08	2.97E-06	2.97E-06	3.38E-06	2.97E-06	2.97E-06
TEEN	1.78E-06	1.77E-06	2.54E-08	1.78E-06	1.77E-06	2.07E-06	1.77E-06	1.77E-06
CHILD	2.15E-06	2.14E-06	4.15E-08	2.14E-06	2.14E-06	2.59E-06	2.14E-06	2.14E-06
COW MILK								
ADULT	7.05E-06	6.98E-06	1.75E-07	7.05E-06	7.04E-06	1.84E-05	6.97E-06	6.97E-06
TEEN	9.18E-06	9.10E-06	2.82E-07	9.22E-06	9.21E-06	2.71E-05	9.09E-06	9.07E-06
CHILD	1.45E-05	1.44E-05	6.23E-07	1.46E-05	1.46E-05	4.99E-05	1.44E-05	1.43E-05
INFANT	2.20E-05	2.18E-05	8.70E-07	2.23E-05	2.21E-05	1.08E-04	2.18E-05	2.18E-05
GOATMILK								
ADULT	1.44E-05	1.42E-05	3.78E-07	1.44E-05	1.43E-05	2.79E-05	1.42E-05	1.42E-05
TEEN	1.87E-05	1.85E-05	6.10E-07	1.88E-05	1.87E-05	4.01E-05	1.85E-05	1.85E-05
CHILD	2.96E-05	2.93E-05	1.35E-06	2.98E-05	2.96E-05	7.19E-05	2.93E-05	2.92E-05
INFANT	4.48E-05	4.44E-05	1.85E-06	4.56E-05	4.50E-05	1.48E-04	4.45E-05	4.44E-05
INHAL								
ADULT	1.15E-05	1.14E-05	2.17E-07	1.14E-05	1.14E-05	1.31E-05	1.15E-05	1.14E-05
TEEN	1.15E-05	1.15E-05	2.52E-07	1.15E-05	1.15E-05	1.36E-05	1.16E-05	1.15E-05
CHILD	1.02E-05	1.02E-05	2.94E-07	1.02E-05	1.02E-05	1.25E-05	1.02E-05	1.02E-05
INFANT	5.86E-06	5.85E-06	1.22E-07	5.86E-06	5.86E-06	7.93E-06	5.90E-06	5.85E-06

TABLE VII-A-7

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 7 VEG
AT 4.92 MILES E

ANNUAL BETA AIR DOSE = 6.55E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.87E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.74E-05	1.74E-05	1.74E-05	1.74E-05	1.74E-05	1.74E-05	1.80E-05	4.33E-05
GROUND	7.26E-08	7.26E-08	7.26E-08	7.26E-08	7.26E-08	7.26E-08	7.26E-08	8.48E-08
VEGET								
ADULT	1.94E-05	1.90E-05	1.97E-06	1.89E-05	1.89E-05	2.74E-05	1.88E-05	1.88E-05
TEEN	2.23E-05	2.17E-05	2.62E-06	2.17E-05	2.17E-05	3.23E-05	2.16E-05	2.16E-05
CHILD	3.48E-05	3.35E-05	5.37E-06	3.36E-05	3.35E-05	5.36E-05	3.34E-05	3.34E-05
MEAT								
ADULT	2.72E-06	2.71E-06	3.35E-08	2.71E-06	2.71E-06	3.09E-06	2.71E-06	2.71E-06
TEEN	1.62E-06	1.62E-06	2.38E-08	1.62E-06	1.62E-06	1.89E-06	1.62E-06	1.61E-06
CHILD	1.96E-06	1.95E-06	3.88E-08	1.96E-06	1.95E-06	2.37E-06	1.95E-06	1.95E-06
COW MILK								
ADULT	6.43E-06	6.37E-06	1.64E-07	6.43E-06	6.43E-06	1.70E-05	6.36E-06	6.36E-06
TEEN	8.38E-06	8.30E-06	2.64E-07	8.42E-06	8.41E-06	2.51E-05	8.29E-06	8.28E-06
CHILD	1.33E-05	1.31E-05	5.83E-07	1.33E-05	1.33E-05	4.63E-05	1.31E-05	1.31E-05
INFANT	2.01E-05	1.99E-05	8.14E-07	2.04E-05	2.02E-05	1.01E-04	1.99E-05	1.98E-05
GOATMILK								
ADULT	1.31E-05	1.30E-05	3.54E-07	1.31E-05	1.31E-05	2.57E-05	1.30E-05	1.30E-05
TEEN	1.71E-05	1.69E-05	5.71E-07	1.72E-05	1.71E-05	3.71E-05	1.69E-05	1.69E-05
CHILD	2.70E-05	2.67E-05	1.26E-06	2.72E-05	2.70E-05	6.66E-05	2.67E-05	2.67E-05
INFANT	4.09E-05	4.05E-05	1.73E-06	4.16E-05	4.11E-05	1.37E-04	4.06E-05	4.05E-05
INHAL								
ADULT	1.05E-05	1.04E-05	1.99E-07	1.04E-05	1.04E-05	1.20E-05	1.05E-05	1.04E-05
TEEN	1.05E-05	1.05E-05	2.31E-07	1.05E-05	1.05E-05	1.24E-05	1.06E-05	1.05E-05
CHILD	9.31E-06	9.29E-06	2.69E-07	9.29E-06	9.30E-06	1.14E-05	9.34E-06	9.28E-06
INFANT	5.35E-06	5.34E-06	1.12E-07	5.35E-06	5.35E-06	7.24E-06	5.38E-06	5.34E-06

TABLE VII-A-8

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 8 RES, VEG
AT 4.19 MILES ESE

ANNUAL BETA AIR DOSE = 1.25E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.82E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.67E-05	8.61E-05
GROUND	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.75E-07
VEGET								
ADULT	3.65E-05	3.56E-05	4.07E-06	3.55E-05	3.55E-05	5.31E-05	3.54E-05	3.53E-05
TEEN	4.20E-05	4.08E-05	5.41E-06	4.07E-05	4.07E-05	6.28E-05	4.05E-05	4.05E-05
CHILD	6.57E-05	6.29E-05	1.11E-05	6.31E-05	6.30E-05	1.15E-04	6.27E-05	6.27E-05
MEAT								
ADULT	5.10E-06	5.08E-06	6.93E-08	5.09E-06	5.09E-06	5.88E-06	5.08E-06	5.08E-06
TEEN	3.05E-06	3.03E-06	4.92E-08	3.04E-06	3.04E-06	3.61E-06	3.03E-06	3.03E-06
CHILD	3.68E-06	3.66E-06	8.03E-08	3.67E-06	3.67E-06	4.54E-06	3.66E-06	3.66E-06
COW MILK								
ADULT	1.21E-05	1.20E-05	3.39E-07	1.21E-05	1.21E-05	3.40E-05	1.19E-05	1.19E-05
TEEN	1.58E-05	1.56E-05	5.46E-07	1.58E-05	1.58E-05	5.04E-05	1.56E-05	1.55E-05
CHILD	2.49E-05	2.46E-05	1.21E-06	2.50E-05	2.50E-05	9.35E-05	2.46E-05	2.46E-05
INFANT	3.77E-05	3.73E-05	1.68E-06	3.83E-05	3.80E-05	2.05E-04	3.73E-05	3.73E-05
GOATMILK								
ADULT	2.47E-05	2.44E-05	7.31E-07	2.47E-05	2.46E-05	5.08E-05	2.44E-05	2.43E-05
TEEN	3.21E-05	3.18E-05	1.18E-06	3.23E-05	3.21E-05	7.36E-05	3.18E-05	3.17E-05
CHILD	5.08E-05	5.01E-05	2.62E-06	5.12E-05	5.08E-05	1.33E-04	5.02E-05	5.01E-05
INFANT	7.68E-05	7.61E-05	3.57E-06	7.83E-05	7.72E-05	2.77E-04	7.62E-05	7.60E-05
INHAL								
ADULT	1.96E-05	1.96E-05	3.77E-07	1.96E-05	1.96E-05	2.25E-05	1.97E-05	1.96E-05
TEEN	1.97E-05	1.97E-05	4.37E-07	1.97E-05	1.97E-05	2.32E-05	1.98E-05	1.97E-05
CHILD	1.75E-05	1.74E-05	5.10E-07	1.74E-05	1.74E-05	2.14E-05	1.75E-05	1.74E-05
INFANT	1.00E-05	1.00E-05	2.12E-07	1.00E-05	1.00E-05	1.36E-05	1.01E-05	1.00E-05

TABLE VII-A-9

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 9 RES, VEG
AT 1.68 MILES SE

ANNUAL BETA AIR DOSE = 7.40E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.77E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.06E-04	6.41E-04
GROUND	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	2.31E-06
VEGET								
ADULT	2.05E-04	1.93E-04	5.35E-05	1.92E-04	1.92E-04	4.26E-04	1.90E-04	1.90E-04
TEEN	2.37E-04	2.21E-04	7.12E-05	2.21E-04	2.20E-04	5.14E-04	2.18E-04	2.18E-04
CHILD	3.76E-04	3.40E-04	1.46E-04	3.42E-04	3.41E-04	8.92E-04	3.37E-04	3.37E-04
MEAT								
ADULT	2.76E-05	2.74E-05	9.12E-07	2.75E-05	2.74E-05	3.79E-05	2.73E-05	2.73E-05
TEEN	1.65E-05	1.63E-05	6.47E-07	1.64E-05	1.64E-05	2.40E-05	1.63E-05	1.63E-05
CHILD	2.00E-05	1.97E-05	1.06E-06	1.99E-05	1.98E-05	3.13E-05	1.97E-05	1.97E-05
COW MILK								
ADULT	6.63E-05	6.46E-05	4.47E-06	6.63E-05	6.61E-05	3.57E-04	6.43E-05	6.41E-05
TEEN	8.64E-05	8.41E-05	7.19E-06	8.73E-05	8.70E-05	5.47E-04	8.38E-05	8.36E-05
CHILD	1.37E-04	1.32E-04	1.59E-05	1.39E-04	1.38E-04	1.05E-03	1.32E-04	1.32E-04
INFANT	2.07E-04	2.01E-04	2.22E-05	2.14E-04	2.10E-04	2.42E-03	2.01E-04	2.00E-04
GOATMILK								
ADULT	1.36E-04	1.32E-04	9.62E-06	1.36E-04	1.34E-04	4.82E-04	1.31E-04	1.31E-04
TEEN	1.76E-04	1.71E-04	1.55E-05	1.79E-04	1.76E-04	7.26E-04	1.71E-04	1.70E-04
CHILD	2.78E-04	2.70E-04	3.44E-05	2.84E-04	2.78E-04	1.37E-03	2.71E-04	2.69E-04
INFANT	4.20E-04	4.09E-04	4.71E-05	4.39E-04	4.24E-04	3.98E-03	4.11E-04	4.09E-04
INHAL								
ADULT	1.05E-04	1.05E-04	2.23E-06	1.05E-04	1.05E-04	1.22E-04	1.06E-04	1.05E-04
TEEN	1.06E-04	1.06E-04	2.59E-06	1.06E-04	1.06E-04	1.26E-04	1.07E-04	1.06E-04
CHILD	9.39E-05	9.37E-05	3.02E-06	9.38E-05	9.38E-05	1.16E-04	9.43E-05	9.37E-05
INFANT	5.40E-05	5.39E-05	1.26E-06	5.40E-05	5.40E-05	7.42E-05	5.44E-05	5.39E-05

TABLE VII-A-10

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 10 RES
AT 0.88 MILES SSE

ANNUAL BETA AIR DOSE = 2.58E-03 MILLRADS

ANNUAL GAMMA AIR DOSE = 1.82E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.15E-03	1.15E-03	1.15E-03	1.15E-03	1.15E-03	1.15E-03	1.17E-03	2.39E-03
GROUND	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.20E-05
VEGET								
ADULT	7.23E-04	6.61E-04	2.78E-04	6.55E-04	6.53E-04	1.87E-03	6.45E-04	6.44E-04
TEEN	8.40E-04	7.57E-04	3.70E-04	7.54E-04	7.50E-04	2.28E-03	7.39E-04	7.37E-04
CHILD	1.35E-03	1.16E-03	7.58E-04	1.17E-03	1.16E-03	4.03E-03	1.14E-03	1.14E-03
MEAT								
ADULT	9.43E-05	9.29E-05	4.74E-06	9.35E-05	9.31E-05	1.48E-04	9.27E-05	9.26E-05
TEEN	5.63E-05	5.54E-05	3.36E-06	5.60E-05	5.57E-05	9.53E-05	5.53E-05	5.52E-05
CHILD	6.81E-05	6.68E-05	5.49E-06	6.77E-05	6.73E-05	1.27E-04	6.68E-05	6.67E-05
COW MILK								
ADULT	2.28E-04	2.20E-04	2.32E-05	2.28E-04	2.28E-04	1.74E-03	2.18E-04	2.17E-04
TEEN	2.98E-04	2.86E-04	3.74E-05	3.03E-04	3.01E-04	2.70E-03	2.85E-04	2.83E-04
CHILD	4.71E-04	4.50E-04	8.26E-05	4.81E-04	4.77E-04	5.21E-03	4.50E-04	4.47E-04
INFANT	7.11E-04	6.81E-04	1.15E-04	7.52E-04	7.30E-04	1.23E-02	6.83E-04	6.79E-04
GOATMILK								
ADULT	4.68E-04	4.47E-04	5.00E-05	4.68E-04	4.60E-04	2.27E-03	4.46E-04	4.44E-04
TEEN	6.08E-04	5.83E-04	8.08E-05	6.21E-04	6.06E-04	3.47E-03	5.82E-04	5.78E-04
CHILD	9.58E-04	9.17E-04	1.79E-04	9.88E-04	9.60E-04	6.63E-03	9.20E-04	9.13E-04
INFANT	1.44E-03	1.39E-03	2.45E-04	1.54E-03	1.46E-03	1.53E-02	1.40E-03	1.38E-03
INHAL								
ADULT	3.58E-04	3.57E-04	7.89E-06	3.57E-04	3.57E-04	4.13E-04	3.58E-04	3.57E-04
TEEN	3.60E-04	3.59E-04	9.15E-06	3.59E-04	3.60E-04	4.29E-04	3.62E-04	3.59E-04
CHILD	3.18E-04	3.18E-04	1.07E-05	3.18E-04	3.18E-04	3.95E-04	3.20E-04	3.18E-04
INFANT	1.83E-04	1.83E-04	4.44E-06	1.83E-04	1.83E-04	2.53E-04	1.84E-04	1.83E-04

TABLE VII-A-11

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 11 VEG
 AT 1.11 MILES SSE

ANNUAL BETA AIR DOSE = 1.46E-03 MILLRADS
 ANNUAL GAMMA AIR DOSE = 9.93E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.27E-04	6.27E-04	6.27E-04	6.27E-04	6.27E-04	6.27E-04	6.39E-04	1.32E-03
GROUND	5.44E-06	5.44E-06	5.44E-06	5.44E-06	5.44E-06	5.44E-06	5.44E-06	6.35E-06
VEGET								
ADULT	4.11E-04	3.78E-04	1.47E-04	3.75E-04	3.74E-04	1.02E-03	3.69E-04	3.69E-04
TEEN	4.77E-04	4.33E-04	1.96E-04	4.31E-04	4.29E-04	1.24E-03	4.23E-04	4.22E-04
CHILD	7.62E-04	6.63E-04	4.02E-04	6.69E-04	6.65E-04	2.19E-03	6.55E-04	6.54E-04
MEAT								
ADULT	5.39E-05	5.32E-05	2.51E-06	5.35E-05	5.33E-05	8.23E-05	5.31E-05	5.30E-05
TEEN	3.22E-05	3.17E-05	1.78E-06	3.20E-05	3.19E-05	5.28E-05	3.17E-05	3.16E-05
CHILD	3.90E-05	3.83E-05	2.91E-06	3.87E-05	3.85E-05	7.02E-05	3.83E-05	3.82E-05
COW MILK								
ADULT	1.30E-04	1.26E-04	1.23E-05	1.30E-04	1.30E-04	9.32E-04	1.25E-04	1.25E-04
TEEN	1.70E-04	1.64E-04	1.98E-05	1.73E-04	1.72E-04	1.44E-03	1.63E-04	1.62E-04
CHILD	2.69E-04	2.57E-04	4.38E-05	2.74E-04	2.72E-04	2.78E-03	2.57E-04	2.56E-04
INFANT	4.06E-04	3.90E-04	6.12E-05	4.28E-04	4.16E-04	6.52E-03	3.91E-04	3.89E-04
GOATMILK								
ADULT	2.67E-04	2.56E-04	2.65E-05	2.67E-04	2.63E-04	1.22E-03	2.55E-04	2.54E-04
TEEN	3.47E-04	3.34E-04	4.28E-05	3.54E-04	3.46E-04	1.86E-03	3.33E-04	3.31E-04
CHILD	5.47E-04	5.25E-04	9.48E-05	5.63E-04	5.48E-04	3.55E-03	5.26E-04	5.23E-04
INFANT	8.23E-04	7.95E-04	1.30E-04	8.76E-04	8.36E-04	8.15E-03	8.00E-04	7.93E-04
INHAL								
ADULT	2.05E-04	2.05E-04	4.45E-06	2.05E-04	2.05E-04	2.37E-04	2.05E-04	2.04E-04
TEEN	2.06E-04	2.06E-04	5.15E-06	2.06E-04	2.06E-04	2.45E-04	2.07E-04	2.06E-04
CHILD	1.82E-04	1.82E-04	6.01E-06	1.82E-04	1.82E-04	2.26E-04	1.83E-04	1.82E-04
INFANT	1.05E-04	1.05E-04	2.50E-06	1.05E-04	1.05E-04	1.45E-04	1.06E-04	1.05E-04

TABLE VII-A-12

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 12 BEEF
AT 2.51 MILES SSE

ANNUAL BETA AIR DOSE = 2.26E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.39E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.70E-05	8.70E-05	8.70E-05	8.70E-05	8.70E-05	8.70E-05	8.90E-05	1.89E-04
GROUND	7.23E-07	7.23E-07	7.23E-07	7.23E-07	7.23E-07	7.23E-07	7.23E-07	8.44E-07
VEGET								
ADULT	6.45E-05	6.01E-05	1.96E-05	5.97E-05	5.95E-05	1.45E-04	5.90E-05	5.89E-05
TEEN	7.47E-05	6.88E-05	2.61E-05	6.86E-05	6.84E-05	1.76E-04	6.75E-05	6.74E-05
CHILD	1.19E-04	1.06E-04	5.34E-05	1.06E-04	1.06E-04	3.08E-04	1.05E-04	1.04E-04
MEAT								
ADULT	8.58E-06	8.49E-06	3.34E-07	8.53E-06	8.50E-06	1.24E-05	8.47E-06	8.47E-06
TEEN	5.12E-06	5.06E-06	2.37E-07	5.10E-06	5.08E-06	7.86E-06	5.06E-06	5.05E-06
CHILD	6.20E-06	6.11E-06	3.87E-07	6.17E-06	6.14E-06	1.03E-05	6.11E-06	6.10E-06
COW MILK								
ADULT	2.07E-05	2.00E-05	1.64E-06	2.07E-05	2.06E-05	1.27E-04	1.99E-05	1.99E-05
TEEN	2.69E-05	2.61E-05	2.63E-06	2.73E-05	2.72E-05	1.95E-04	2.60E-05	2.59E-05
CHILD	4.26E-05	4.11E-05	5.82E-06	4.33E-05	4.30E-05	3.76E-04	4.11E-05	4.09E-05
INFANT	6.44E-05	6.23E-05	8.13E-06	6.72E-05	6.57E-05	8.75E-04	6.24E-05	6.21E-05
GOATMILK								
ADULT	4.23E-05	4.08E-05	3.52E-06	4.23E-05	4.17E-05	1.69E-04	4.07E-05	4.06E-05
TEEN	5.50E-05	5.32E-05	5.69E-06	5.59E-05	5.48E-05	2.56E-04	5.31E-05	5.28E-05
CHILD	8.67E-05	8.38E-05	1.26E-05	8.88E-05	8.68E-05	4.85E-04	8.40E-05	8.35E-05
INFANT	1.31E-04	1.27E-04	1.72E-05	1.38E-04	1.32E-04	1.10E-03	1.28E-04	1.27E-04
INHAL								
ADULT	3.27E-05	3.27E-05	6.67E-07	3.27E-05	3.27E-05	3.76E-05	3.28E-05	3.26E-05
TEEN	3.29E-05	3.29E-05	7.73E-07	3.29E-05	3.29E-05	3.90E-05	3.31E-05	3.28E-05
CHILD	2.91E-05	2.90E-05	9.01E-07	2.91E-05	2.91E-05	3.58E-05	2.92E-05	2.90E-05
INFANT	1.67E-05	1.67E-05	3.75E-07	1.67E-05	1.67E-05	2.29E-05	1.68E-05	1.67E-05

TABLE VII-A-13

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 13 RES. VEG
AT 0.72 MILES S

ANNUAL BETA AIR DOSE = 3.50E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.37E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.52E-03	3.15E-03
GROUND	8.00E-06	8.00E-06	8.00E-06	8.00E-06	8.00E-06	8.00E-06	8.00E-06	9.34E-06
VEGET								
ADULT	9.48E-04	8.99E-04	2.17E-04	8.94E-04	8.93E-04	1.84E-03	8.86E-04	8.86E-04
TEEN	1.09E-03	1.03E-03	2.89E-04	1.03E-03	1.02E-03	2.22E-03	1.02E-03	1.01E-03
CHILD	1.73E-03	1.58E-03	5.91E-04	1.59E-03	1.59E-03	3.82E-03	1.57E-03	1.57E-03
MEAT								
ADULT	1.29E-04	1.28E-04	3.69E-06	1.28E-04	1.28E-04	1.70E-04	1.27E-04	1.27E-04
TEEN	7.68E-05	7.61E-05	2.62E-06	7.65E-05	7.63E-05	1.07E-04	7.60E-05	7.59E-05
CHILD	9.28E-05	9.18E-05	4.28E-06	9.25E-05	9.22E-05	1.39E-04	9.18E-05	9.17E-05
COW MILK								
ADULT	3.08E-04	3.01E-04	1.81E-05	3.08E-04	3.07E-04	1.49E-03	3.00E-04	2.99E-04
TEEN	4.01E-04	3.92E-04	2.92E-05	4.05E-04	4.04E-04	2.27E-03	3.91E-04	3.89E-04
CHILD	6.34E-04	6.17E-04	6.44E-05	6.42E-04	6.39E-04	4.33E-03	6.17E-04	6.15E-04
INFANT	9.59E-04	9.35E-04	9.00E-05	9.91E-04	9.74E-04	9.95E-03	9.37E-04	9.34E-04
GOATMILK								
ADULT	6.29E-04	6.13E-04	3.90E-05	6.29E-04	6.22E-04	2.04E-03	6.12E-04	6.10E-04
TEEN	8.18E-04	7.98E-04	6.30E-05	8.28E-04	8.17E-04	3.05E-03	7.98E-04	7.94E-04
CHILD	1.29E-03	1.26E-03	1.40E-04	1.31E-03	1.29E-03	5.71E-03	1.26E-03	1.26E-03
INFANT	1.95E-03	1.91E-03	1.91E-04	2.03E-03	1.97E-03	1.27E-02	1.91E-03	1.90E-03
INHAL								
ADULT	4.92E-04	4.91E-04	1.10E-05	4.91E-04	4.91E-04	5.69E-04	4.93E-04	4.91E-04
TEEN	4.95E-04	4.94E-04	1.27E-05	4.94E-04	4.94E-04	5.90E-04	4.97E-04	4.94E-04
CHILD	4.38E-04	4.37E-04	1.48E-05	4.37E-04	4.37E-04	5.43E-04	4.40E-04	4.37E-04
INFANT	2.52E-04	2.51E-04	6.16E-06	2.52E-04	2.51E-04	3.48E-04	2.54E-04	2.51E-04

TABLE VII-A-14

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 14 BEEF
AT 1.98 MILES S

ANNUAL BETA AIR DOSE = 3.30E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.04E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.28E-04	1.28E-04	1.28E-04	1.28E-04	1.28E-04	1.28E-04	1.31E-04	2.78E-04
GROUND	6.18E-07	6.18E-07	6.18E-07	6.18E-07	6.18E-07	6.18E-07	6.18E-07	7.22E-07
VEGET								
ADULT	9.08E-05	8.70E-05	1.68E-05	8.67E-05	8.65E-05	1.60E-04	8.60E-05	8.60E-05
TEEN	1.05E-04	9.97E-05	2.23E-05	9.94E-05	9.92E-05	1.91E-04	9.85E-05	9.85E-05
CHILD	1.65E-04	1.53E-04	4.57E-05	1.54E-04	1.54E-04	3.26E-04	1.53E-04	1.52E-04
MEAT								
ADULT	1.25E-05	1.24E-05	2.85E-07	1.24E-05	1.24E-05	1.57E-05	1.24E-05	1.24E-05
TEEN	7.44E-06	7.38E-06	2.02E-07	7.42E-06	7.40E-06	9.78E-06	7.38E-06	7.37E-06
CHILD	8.99E-06	8.91E-06	3.30E-07	8.97E-06	8.94E-06	1.25E-05	8.91E-06	8.91E-06
COW MILK								
ADULT	2.97E-05	2.92E-05	1.40E-06	2.97E-05	2.96E-05	1.21E-04	2.91E-05	2.90E-05
TEEN	3.87E-05	3.80E-05	2.25E-06	3.90E-05	3.89E-05	1.83E-04	3.79E-05	3.78E-05
CHILD	6.12E-05	5.99E-05	4.97E-06	6.18E-05	6.15E-05	3.46E-04	5.99E-05	5.97E-05
INFANT	9.26E-05	9.08E-05	6.95E-06	9.50E-05	9.37E-05	7.86E-04	9.09E-05	9.06E-05
GOATMILK								
ADULT	6.07E-05	5.94E-05	3.01E-06	6.07E-05	6.02E-05	1.69E-04	5.93E-05	5.92E-05
TEEN	7.89E-05	7.74E-05	4.87E-06	7.98E-05	7.88E-05	2.51E-04	7.74E-05	7.71E-05
CHILD	1.25E-04	1.22E-04	1.08E-05	1.26E-04	1.25E-04	4.65E-04	1.22E-04	1.22E-04
INFANT	1.88E-04	1.85E-04	1.47E-05	1.94E-04	1.90E-04	1.02E-03	1.86E-04	1.85E-04
INHAL								
ADULT	4.77E-05	4.77E-05	1.00E-06	4.77E-05	4.77E-05	5.50E-05	4.78E-05	4.76E-05
TEEN	4.80E-05	4.80E-05	1.16E-06	4.80E-05	4.80E-05	5.70E-05	4.83E-05	4.79E-05
CHILD	4.25E-05	4.24E-05	1.35E-06	4.24E-05	4.24E-05	5.24E-05	4.27E-05	4.24E-05
INFANT	2.44E-05	2.44E-05	5.63E-07	2.44E-05	2.44E-05	3.35E-05	2.46E-05	2.44E-05

TABLE VII-A-15

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 15 COW
AT 2.74 MILES S

ANNUAL BETA AIR DOSE = 1.58E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 8.68E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.38E-05	5.38E-05	5.38E-05	5.38E-05	5.38E-05	5.38E-05	5.52E-05	1.22E-04
GROUND	2.91E-07	2.91E-07	2.91E-07	2.91E-07	2.91E-07	2.91E-07	2.91E-07	3.40E-07
VEGET								
ADULT	4.51E-05	4.33E-05	7.90E-06	4.31E-05	4.31E-05	7.75E-05	4.28E-05	4.28E-05
TEEN	5.19E-05	4.96E-05	1.05E-05	4.95E-05	4.94E-05	9.26E-05	4.91E-05	4.90E-05
CHILD	8.17E-05	7.64E-05	2.15E-05	7.67E-05	7.65E-05	1.58E-04	7.60E-05	7.59E-05
MEAT								
ADULT	6.20E-06	6.16E-06	1.35E-07	6.18E-06	6.17E-06	7.72E-06	6.16E-06	6.16E-06
TEEN	3.70E-06	3.68E-06	9.54E-08	3.69E-06	3.68E-06	4.80E-06	3.67E-06	3.67E-06
CHILD	4.48E-06	4.44E-06	1.56E-07	4.46E-06	4.45E-06	6.14E-06	4.44E-06	4.44E-06
COW MILK								
ADULT	1.48E-05	1.45E-05	6.59E-07	1.48E-05	1.47E-05	5.75E-05	1.45E-05	1.45E-05
TEEN	1.92E-05	1.89E-05	1.06E-06	1.94E-05	1.93E-05	8.69E-05	1.89E-05	1.88E-05
CHILD	3.04E-05	2.98E-05	2.34E-06	3.07E-05	3.06E-05	1.64E-04	2.98E-05	2.97E-05
INFANT	4.61E-05	4.52E-05	3.27E-06	4.72E-05	4.66E-05	3.72E-04	4.53E-05	4.51E-05
GOATMILK								
ADULT	3.02E-05	2.96E-05	1.42E-06	3.02E-05	2.99E-05	8.12E-05	2.95E-05	2.95E-05
TEEN	3.93E-05	3.86E-05	2.29E-06	3.96E-05	3.92E-05	1.20E-04	3.85E-05	3.84E-05
CHILD	6.20E-05	6.08E-05	5.08E-06	6.28E-05	6.20E-05	2.22E-04	6.09E-05	6.07E-05
INFANT	9.37E-05	9.22E-05	6.94E-06	9.65E-05	9.43E-05	4.84E-04	9.24E-05	9.21E-05
INHAL								
ADULT	2.38E-05	2.37E-05	4.80E-07	2.37E-05	2.37E-05	2.73E-05	2.38E-05	2.37E-05
TEEN	2.39E-05	2.39E-05	5.56E-07	2.39E-05	2.39E-05	2.83E-05	2.40E-05	2.39E-05
CHILD	2.12E-05	2.11E-05	6.48E-07	2.11E-05	2.11E-05	2.60E-05	2.13E-05	2.11E-05
INFANT	1.22E-05	1.21E-05	2.70E-07	1.22E-05	1.22E-05	1.66E-05	1.22E-05	1.21E-05

TABLE VII-A-16

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 16 RES
AT 0.63 MILES SSW

ANNUAL BETA AIR DOSE = 2.27E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.60E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.01E-03	1.01E-03	1.01E-03	1.01E-03	1.01E-03	1.01E-03	1.03E-03	2.10E-03
GROUND	3.31E-07	3.31E-07	3.31E-07	3.31E-07	3.31E-07	3.31E-07	3.31E-07	3.86E-07
VEGET								
ADULT	5.66E-04	5.64E-04	8.97E-06	5.64E-04	5.64E-04	6.03E-04	5.63E-04	5.63E-04
TEEN	6.48E-04	6.46E-04	1.19E-05	6.45E-04	6.45E-04	6.95E-04	6.45E-04	6.45E-04
CHILD	1.01E-03	9.99E-04	2.44E-05	1.00E-03	1.00E-03	1.09E-03	9.99E-04	9.99E-04
MEAT								
ADULT	8.10E-05	8.10E-05	1.53E-07	8.10E-05	8.10E-05	8.27E-05	8.10E-05	8.10E-05
TEEN	4.83E-05	4.83E-05	1.08E-07	4.83E-05	4.83E-05	4.96E-05	4.83E-05	4.83E-05
CHILD	5.84E-05	5.83E-05	1.77E-07	5.84E-05	5.84E-05	6.03E-05	5.83E-05	5.83E-05
COW MILK								
ADULT	1.90E-04	1.90E-04	7.48E-07	1.90E-04	1.90E-04	2.39E-04	1.90E-04	1.90E-04
TEEN	2.48E-04	2.48E-04	1.20E-06	2.48E-04	2.48E-04	3.25E-04	2.48E-04	2.48E-04
CHILD	3.92E-04	3.91E-04	2.66E-06	3.92E-04	3.92E-04	5.45E-04	3.91E-04	3.91E-04
INFANT	5.95E-04	5.94E-04	3.72E-06	5.96E-04	5.95E-04	9.67E-04	5.94E-04	5.94E-04
GOATMILK								
ADULT	3.89E-04	3.88E-04	1.61E-06	3.89E-04	3.88E-04	4.47E-04	3.88E-04	3.88E-04
TEEN	5.06E-04	5.05E-04	2.60E-06	5.07E-04	5.06E-04	5.99E-04	5.05E-04	5.05E-04
CHILD	8.00E-04	7.98E-04	5.76E-06	8.01E-04	8.00E-04	9.82E-04	7.98E-04	7.98E-04
INFANT	1.21E-03	1.21E-03	7.88E-06	1.22E-03	1.21E-03	1.66E-03	1.21E-03	1.21E-03
INHAL								
ADULT	3.13E-04	3.12E-04	7.05E-06	3.12E-04	3.12E-04	3.62E-04	3.13E-04	3.12E-04
TEEN	3.15E-04	3.14E-04	8.17E-06	3.14E-04	3.14E-04	3.75E-04	3.16E-04	3.14E-04
CHILD	2.78E-04	2.78E-04	9.52E-06	2.78E-04	2.78E-04	3.46E-04	2.80E-04	2.78E-04
INFANT	1.60E-04	1.60E-04	3.96E-06	1.60E-04	1.60E-04	2.22E-04	1.61E-04	1.60E-04

TABLE VII-A-17

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 17 VEG
 AT 1.14 MILES SSW

ANNUAL BETA AIR DOSE = 6.37E-04 MILLRADS
 ANNUAL GAMMA AIR DOSE = 4.26E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.68E-04	2.68E-04	2.68E-04	2.68E-04	2.68E-04	2.68E-04	2.74E-04	5.67E-04
GROUND	3.86E-07	3.86E-07	3.86E-07	3.86E-07	3.86E-07	3.86E-07	3.86E-07	4.51E-07
VEGET								
ADULT	1.65E-04	1.62E-04	1.05E-05	1.62E-04	1.62E-04	2.08E-04	1.62E-04	1.62E-04
TEEN	1.89E-04	1.86E-04	1.39E-05	1.86E-04	1.86E-04	2.43E-04	1.85E-04	1.85E-04
CHILD	2.94E-04	2.87E-04	2.85E-05	2.88E-04	2.87E-04	3.95E-04	2.87E-04	2.87E-04
MEAT								
ADULT	2.33E-05	2.32E-05	1.78E-07	2.33E-05	2.33E-05	2.53E-05	2.32E-05	2.32E-05
TEEN	1.39E-05	1.39E-05	1.26E-07	1.39E-05	1.39E-05	1.54E-05	1.39E-05	1.39E-05
CHILD	1.68E-05	1.67E-05	2.07E-07	1.68E-05	1.68E-05	1.90E-05	1.67E-05	1.67E-05
COW MILK								
ADULT	5.50E-05	5.47E-05	8.74E-07	5.50E-05	5.50E-05	1.12E-04	5.46E-05	5.46E-05
TEEN	7.16E-05	7.12E-05	1.41E-06	7.18E-05	7.18E-05	1.62E-04	7.11E-05	7.11E-05
CHILD	1.13E-04	1.12E-04	3.11E-06	1.14E-04	1.13E-04	2.91E-04	1.12E-04	1.12E-04
INFANT	1.72E-04	1.70E-04	4.34E-06	1.73E-04	1.72E-04	6.06E-04	1.71E-04	1.70E-04
GOATMILK								
ADULT	1.12E-04	1.11E-04	1.88E-06	1.12E-04	1.12E-04	1.80E-04	1.11E-04	1.11E-04
TEEN	1.46E-04	1.45E-04	3.04E-06	1.47E-04	1.46E-04	2.54E-04	1.45E-04	1.45E-04
CHILD	2.31E-04	2.29E-04	6.73E-06	2.32E-04	2.31E-04	4.44E-04	2.29E-04	2.29E-04
INFANT	3.50E-04	3.48E-04	9.21E-06	3.53E-04	3.51E-04	8.70E-04	3.48E-04	3.48E-04
INHAL								
ADULT	8.97E-05	8.96E-05	1.94E-06	8.96E-05	8.96E-05	1.04E-04	8.99E-05	8.96E-05
TEEN	9.03E-05	9.02E-05	2.25E-06	9.02E-05	9.02E-05	1.07E-04	9.08E-05	9.01E-05
CHILD	7.99E-05	7.97E-05	2.62E-06	7.98E-05	7.98E-05	9.89E-05	8.03E-05	7.97E-05
INFANT	4.59E-05	4.58E-05	1.09E-06	4.59E-05	4.59E-05	6.33E-05	4.63E-05	4.58E-05

TABLE VII-A-18

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 18 BEEF
AT 1.99 MILES SSW

ANNUAL BETA AIR DOSE = 1.67E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.02E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	: 6.41E-05	: 6.41E-05	: 6.41E-05	: 6.41E-05	: 6.41E-05	: 6.41E-05	: 6.56E-05	: 1.39E-04
GROUND	: 3.62E-07	: 3.62E-07	: 3.62E-07	: 3.62E-07	: 3.62E-07	: 3.62E-07	: 3.62E-07	: 4.22E-07
VEGET	:	:	:	:	:	:	:	:
ADULT	: 4.64E-05	: 4.42E-05	: 9.80E-06	: 4.40E-05	: 4.39E-05	: 8.67E-05	: 4.36E-05	: 4.36E-05
TEEN	: 5.35E-05	: 5.06E-05	: 1.30E-05	: 5.05E-05	: 5.04E-05	: 1.04E-04	: 5.00E-05	: 4.99E-05
CHILD	: 8.45E-05	: 7.79E-05	: 2.67E-05	: 7.83E-05	: 7.80E-05	: 1.79E-04	: 7.74E-05	: 7.73E-05
MEAT	:	:	:	:	:	:	:	:
ADULT	: 6.33E-06	: 6.28E-06	: 1.67E-07	: 6.30E-06	: 6.29E-06	: 8.21E-06	: 6.27E-06	: 6.27E-06
TEEN	: 3.77E-06	: 3.74E-06	: 1.18E-07	: 3.76E-06	: 3.75E-06	: 5.15E-06	: 3.74E-06	: 3.74E-06
CHILD	: 4.57E-06	: 4.52E-06	: 1.93E-07	: 4.55E-06	: 4.54E-06	: 6.64E-06	: 4.52E-06	: 4.52E-06
COW MILK	:	:	:	:	:	:	:	:
ADULT	: 1.51E-05	: 1.48E-05	: 8.18E-07	: 1.51E-05	: 1.51E-05	: 6.83E-05	: 1.47E-05	: 1.47E-05
TEEN	: 1.97E-05	: 1.93E-05	: 1.32E-06	: 1.99E-05	: 1.98E-05	: 1.04E-04	: 1.92E-05	: 1.92E-05
CHILD	: 3.11E-05	: 3.04E-05	: 2.91E-06	: 3.15E-05	: 3.13E-05	: 1.98E-04	: 3.04E-05	: 3.03E-05
INFANT	: 4.71E-05	: 4.60E-05	: 4.06E-06	: 4.85E-05	: 4.78E-05	: 4.53E-04	: 4.61E-05	: 4.60E-05
GOATMILK	:	:	:	:	:	:	:	:
ADULT	: 3.09E-05	: 3.02E-05	: 1.76E-06	: 3.09E-05	: 3.06E-05	: 9.43E-05	: 3.01E-05	: 3.00E-05
TEEN	: 4.02E-05	: 3.93E-05	: 2.85E-06	: 4.06E-05	: 4.01E-05	: 1.41E-04	: 3.93E-05	: 3.91E-05
CHILD	: 6.34E-05	: 6.19E-05	: 6.30E-06	: 6.45E-05	: 6.35E-05	: 2.63E-04	: 6.20E-05	: 6.18E-05
INFANT	: 9.57E-05	: 9.39E-05	: 8.62E-06	: 9.92E-05	: 9.66E-05	: 5.82E-04	: 9.42E-05	: 9.37E-05
INHAL	:	:	:	:	:	:	:	:
ADULT	: 2.42E-05	: 2.42E-05	: 5.06E-07	: 2.42E-05	: 2.42E-05	: 2.79E-05	: 2.43E-05	: 2.42E-05
TEEN	: 2.44E-05	: 2.43E-05	: 5.86E-07	: 2.43E-05	: 2.43E-05	: 2.89E-05	: 2.45E-05	: 2.43E-05
CHILD	: 2.15E-05	: 2.15E-05	: 6.83E-07	: 2.15E-05	: 2.15E-05	: 2.66E-05	: 2.16E-05	: 2.15E-05
INFANT	: 1.24E-05	: 1.24E-05	: 2.85E-07	: 1.24E-05	: 1.24E-05	: 1.70E-05	: 1.25E-05	: 1.24E-05

TABLE VII-A-19

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 19 RES
 AT 0.72 MILES SW

ANNUAL BETA AIR DOSE = 1.58E-03 MILLRADS

ANNUAL GAMMA AIR DOSE = 1.12E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.05E-04	7.05E-04	7.05E-04	7.05E-04	7.05E-04	7.05E-04	7.19E-04	1.47E-03
GROUND	6.83E-07	6.83E-07	6.83E-07	6.83E-07	6.83E-07	6.83E-07	6.83E-07	7.97E-07
VEGET								
ADULT	4.00E-04	3.96E-04	1.85E-05	3.95E-04	3.95E-04	4.76E-04	3.95E-04	3.95E-04
TEEN	4.59E-04	4.53E-04	2.46E-05	4.53E-04	4.53E-04	5.55E-04	4.52E-04	4.52E-04
CHILD	7.13E-04	7.01E-04	5.05E-05	7.02E-04	7.01E-04	8.92E-04	7.00E-04	7.00E-04
MEAT								
ADULT	5.68E-05	5.68E-05	3.15E-07	5.68E-05	5.68E-05	6.04E-05	5.67E-05	5.67E-05
TEEN	3.39E-05	3.39E-05	2.24E-07	3.39E-05	3.39E-05	3.65E-05	3.38E-05	3.38E-05
CHILD	4.10E-05	4.09E-05	3.65E-07	4.09E-05	4.09E-05	4.49E-05	4.09E-05	4.09E-05
COW MILK								
ADULT	1.34E-04	1.33E-04	1.55E-06	1.34E-04	1.34E-04	2.35E-04	1.33E-04	1.33E-04
TEEN	1.75E-04	1.74E-04	2.49E-06	1.75E-04	1.75E-04	3.34E-04	1.74E-04	1.74E-04
CHILD	2.76E-04	2.74E-04	5.50E-06	2.76E-04	2.76E-04	5.91E-04	2.74E-04	2.74E-04
INFANT	4.18E-04	4.16E-04	7.68E-06	4.21E-04	4.19E-04	1.19E-03	4.16E-04	4.16E-04
GOATMILK								
ADULT	2.73E-04	2.72E-04	3.33E-06	2.73E-04	2.73E-04	3.94E-04	2.72E-04	2.72E-04
TEEN	3.56E-04	3.54E-04	5.38E-06	3.57E-04	3.56E-04	5.47E-04	3.54E-04	3.54E-04
CHILD	5.62E-04	5.60E-04	1.19E-05	5.64E-04	5.63E-04	9.40E-04	5.60E-04	5.59E-04
INFANT	8.52E-04	8.49E-04	1.63E-05	8.59E-04	8.54E-04	1.77E-03	8.50E-04	8.49E-04
INHAL								
ADULT	2.19E-04	2.19E-04	4.88E-06	2.19E-04	2.19E-04	2.54E-04	2.20E-04	2.19E-04
TEEN	2.21E-04	2.20E-04	5.66E-06	2.20E-04	2.20E-04	2.63E-04	2.22E-04	2.20E-04
CHILD	1.95E-04	1.95E-04	6.60E-06	1.95E-04	1.95E-04	2.42E-04	1.96E-04	1.95E-04
INFANT	1.12E-04	1.12E-04	2.75E-06	1.12E-04	1.12E-04	1.55E-04	1.13E-04	1.12E-04

TABLE VII-A-20

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 20 BEEF
 AT 0.82 MILES SW

ANNUAL BETA AIR DOSE = 1.20E-03 MILLRADS
 ANNUAL GAMMA AIR DOSE = 8.49E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.37E-04	5.37E-04	5.37E-04	5.37E-04	5.37E-04	5.37E-04	5.48E-04	1.11E-03
GROUND	2.87E-06	2.87E-06	2.87E-06	2.87E-06	2.87E-06	2.87E-06	2.87E-06	3.36E-06
VEGET								
ADULT	3.19E-04	3.01E-04	7.79E-05	3.00E-04	2.99E-04	6.41E-04	2.97E-04	2.97E-04
TEEN	3.68E-04	3.45E-04	1.04E-04	3.44E-04	3.43E-04	7.73E-04	3.40E-04	3.40E-04
CHILD	5.83E-04	5.31E-04	2.12E-04	5.34E-04	5.32E-04	1.34E-03	5.27E-04	5.26E-04
MEAT								
ADULT	4.31E-05	4.27E-05	1.33E-06	4.29E-05	4.28E-05	5.81E-05	4.27E-05	4.26E-05
TEEN	2.57E-05	2.55E-05	9.41E-07	2.56E-05	2.56E-05	3.67E-05	2.55E-05	2.54E-05
CHILD	3.11E-05	3.08E-05	1.54E-06	3.10E-05	3.09E-05	4.77E-05	3.08E-05	3.07E-05
COW MILK								
ADULT	1.03E-04	1.01E-04	6.50E-06	1.03E-04	1.03E-04	5.27E-04	1.00E-04	1.00E-04
TEEN	1.35E-04	1.31E-04	1.05E-05	1.36E-04	1.36E-04	8.06E-04	1.31E-04	1.30E-04
CHILD	2.13E-04	2.07E-04	2.31E-05	2.16E-04	2.14E-04	1.54E-03	2.07E-04	2.06E-04
INFANT	3.22E-04	3.13E-04	3.23E-05	3.33E-04	3.27E-04	3.56E-03	3.14E-04	3.13E-04
GOATMILK								
ADULT	2.11E-04	2.05E-04	1.40E-05	2.11E-04	2.09E-04	7.17E-04	2.05E-04	2.04E-04
TEEN	2.75E-04	2.67E-04	2.26E-05	2.78E-04	2.74E-04	1.08E-03	2.67E-04	2.66E-04
CHILD	4.33E-04	4.22E-04	5.01E-05	4.42E-04	4.34E-04	2.02E-03	4.22E-04	4.20E-04
INFANT	6.54E-04	6.39E-04	6.85E-05	6.82E-04	6.60E-04	4.53E-03	6.41E-04	6.38E-04
INHAL								
ADULT	1.65E-04	1.64E-04	3.65E-06	1.64E-04	1.65E-04	1.90E-04	1.65E-04	1.64E-04
TEEN	1.66E-04	1.66E-04	4.23E-06	1.66E-04	1.66E-04	1.97E-04	1.67E-04	1.65E-04
CHILD	1.47E-04	1.46E-04	4.93E-06	1.46E-04	1.46E-04	1.82E-04	1.47E-04	1.46E-04
INFANT	8.43E-05	8.41E-05	2.05E-06	8.42E-05	8.42E-05	1.17E-04	8.49E-05	8.41E-05

TABLE VII-A-21

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 21 VEG
 AT 2.35 MILES SW

ANNUAL BETA AIR DOSE = 1.05E-04 MILLRADS
 ANNUAL GAMMA AIR DOSE = 6.34E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.97E-05	3.97E-05	3.97E-05	3.97E-05	3.97E-05	3.97E-05	4.06E-05	8.67E-05
GROUND	1.15E-08	1.15E-08	1.15E-08	1.15E-08	1.15E-08	1.15E-08	1.15E-08	1.34E-08
VEGET								
ADULT	2.75E-05	2.75E-05	3.12E-07	2.74E-05	2.74E-05	2.88E-05	2.74E-05	2.74E-05
TEEN	3.15E-05	3.14E-05	4.14E-07	3.14E-05	3.14E-05	3.31E-05	3.14E-05	3.14E-05
CHILD	4.89E-05	4.87E-05	8.49E-07	4.87E-05	4.87E-05	5.19E-05	4.86E-05	4.86E-05
MEAT								
ADULT	3.94E-06	3.94E-06	5.31E-09	3.94E-06	3.94E-06	4.00E-06	3.94E-06	3.94E-06
TEEN	2.35E-06	2.35E-06	3.76E-09	2.35E-06	2.35E-06	2.40E-06	2.35E-06	2.35E-06
CHILD	2.84E-06	2.84E-06	6.15E-09	2.84E-06	2.84E-06	2.91E-06	2.84E-06	2.84E-06
COW MILK								
ADULT	9.27E-06	9.26E-06	2.60E-08	9.27E-06	9.27E-06	1.10E-05	9.26E-06	9.26E-06
TEEN	1.21E-05	1.21E-05	4.19E-08	1.21E-05	1.21E-05	1.48E-05	1.21E-05	1.21E-05
CHILD	1.91E-05	1.91E-05	9.25E-08	1.91E-05	1.91E-05	2.44E-05	1.91E-05	1.91E-05
INFANT	2.89E-05	2.89E-05	1.29E-07	2.90E-05	2.90E-05	4.18E-05	2.89E-05	2.89E-05
GOATMILK								
ADULT	1.89E-05	1.89E-05	5.60E-08	1.89E-05	1.89E-05	2.09E-05	1.89E-05	1.89E-05
TEEN	2.46E-05	2.46E-05	9.05E-08	2.47E-05	2.46E-05	2.78E-05	2.46E-05	2.46E-05
CHILD	3.89E-05	3.89E-05	2.00E-07	3.90E-05	3.89E-05	4.53E-05	3.89E-05	3.89E-05
INFANT	5.90E-05	5.90E-05	2.74E-07	5.92E-05	5.91E-05	7.45E-05	5.90E-05	5.90E-05
INHAL								
ADULT	1.52E-05	1.52E-05	3.14E-07	1.52E-05	1.52E-05	1.75E-05	1.53E-05	1.52E-05
TEEN	1.53E-05	1.53E-05	3.64E-07	1.53E-05	1.53E-05	1.82E-05	1.54E-05	1.53E-05
CHILD	1.36E-05	1.35E-05	4.24E-07	1.35E-05	1.35E-05	1.67E-05	1.36E-05	1.35E-05
INFANT	7.79E-06	7.78E-06	1.77E-07	7.79E-06	7.79E-06	1.07E-05	7.85E-06	7.78E-06

TABLE VII-A-22

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 22 RES
AT 1.05 MILES WSW

ANNUAL BETA β -R DOSE = 5.57E-04 MILLRADS
ANNUAL γ -R AIR DOSE = 3.93E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.49E-04	2.49E-04	2.49E-04	2.49E-04	2.49E-04	2.49E-04	2.54E-04	5.16E-04
GROUND	3.40E-08	3.40E-08	3.40E-08	3.40E-08	3.40E-08	3.40E-08	3.40E-08	3.97E-08
VEGET								
ADULT	1.39E-04	1.39E-04	9.22E-07	1.38E-04	1.38E-04	1.43E-04	1.38E-04	1.38E-04
TEEN	1.59E-04	1.59E-04	1.23E-06	1.59E-04	1.59E-04	1.64E-04	1.59E-04	1.59E-04
CHILD	2.46E-04	2.46E-04	2.51E-06	2.46E-04	2.46E-04	2.55E-04	2.46E-04	2.46E-04
MEAT								
ADULT	1.99E-05	1.99E-05	1.57E-08	1.99E-05	1.99E-05	2.01E-05	1.99E-05	1.99E-05
TEEN	1.19E-05	1.19E-05	1.11E-08	1.19E-05	1.19E-05	1.20E-05	1.19E-05	1.19E-05
CHILD	1.43E-05	1.43E-05	1.82E-08	1.43E-05	1.43E-05	1.45E-05	1.43E-05	1.43E-05
COW MILK								
ADULT	4.68E-05	4.67E-05	7.69E-08	4.68E-05	4.68E-05	5.18E-05	4.67E-05	4.67E-05
TEEN	6.09E-05	6.09E-05	1.24E-07	6.09E-05	6.09E-05	6.89E-05	6.09E-05	6.09E-05
CHILD	9.63E-05	9.62E-05	2.74E-07	9.63E-05	9.63E-05	1.12E-04	9.62E-05	9.62E-05
INFANT	1.46E-04	1.46E-04	3.82E-07	1.46E-04	1.46E-04	1.84E-04	1.46E-04	1.46E-04
GOATMILK								
ADULT	9.54E-05	9.53E-05	1.66E-07	9.54E-05	9.54E-05	1.01E-04	9.53E-05	9.53E-05
TEEN	1.24E-04	1.24E-04	2.68E-07	1.24E-04	1.24E-04	1.34E-04	1.24E-04	1.24E-04
CHILD	1.96E-04	1.96E-04	5.93E-07	1.96E-04	1.96E-04	2.15E-04	1.96E-04	1.96E-04
INFANT	2.98E-04	2.98E-04	8.10E-07	2.98E-04	2.98E-04	3.44E-04	2.98E-04	2.98E-04
INHAL								
ADULT	7.68E-05	7.67E-05	1.69E-06	7.68E-05	7.68E-05	8.88E-05	7.70E-05	7.67E-05
TEEN	7.74E-05	7.72E-05	1.96E-06	7.73E-05	7.73E-05	9.21E-05	7.77E-05	7.72E-05
CHILD	6.84E-05	6.83E-05	2.28E-06	6.83E-05	6.83E-05	8.48E-05	6.87E-05	6.83E-05
INFANT	3.93E-05	3.93E-05	9.49E-07	3.93E-05	3.93E-05	5.44E-05	3.96E-05	3.92E-05

TABLE VII-A-23

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 23 VEG
AT 1.23 MILES WSW

ANNUAL BETA AIR DOSE = 3.75E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.56E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.61E-04	1.61E-04	1.61E-04	1.61E-04	1.61E-04	1.61E-04	1.65E-04	3.39E-04
GROUND	1.26E-07	1.26E-07	1.26E-07	1.26E-07	1.26E-07	1.26E-07	1.26E-07	1.47E-07
VEGET								
ADULT	9.56E-05	9.48E-05	3.42E-06	9.47E-05	9.47E-05	1.10E-04	9.46E-05	9.46E-05
TEEN	1.10E-04	1.09E-04	4.55E-06	1.09E-04	1.08E-04	1.27E-04	1.08E-04	1.08E-04
CHILD	1.70E-04	1.68E-04	9.32E-06	1.68E-04	1.68E-04	2.03E-04	1.68E-04	1.68E-04
MEAT								
ADULT	1.36E-05	1.36E-05	5.82E-08	1.36E-05	1.36E-05	1.43E-05	1.36E-05	1.36E-05
TEEN	8.12E-06	8.11E-06	4.13E-08	8.12E-06	8.12E-06	8.60E-06	8.11E-06	8.11E-06
CHILD	9.81E-06	9.80E-06	6.74E-08	9.81E-06	9.80E-06	1.05E-05	9.80E-06	9.80E-06
COW MILK								
ADULT	3.21E-05	3.20E-05	2.85E-07	3.21E-05	3.21E-05	5.07E-05	3.19E-05	3.19E-05
TEEN	4.18E-05	4.16E-05	4.59E-07	4.18E-05	4.18E-05	7.12E-05	4.16E-05	4.16E-05
CHILD	6.60E-05	6.57E-05	1.01E-06	6.61E-05	6.61E-05	1.24E-04	6.57E-05	6.57E-05
INFANT	1.00E-04	9.97E-05	1.42E-06	1.01E-04	1.00E-04	2.42E-04	9.98E-05	9.97E-05
GOATMILK								
ADULT	6.54E-05	6.52E-05	6.15E-07	6.54E-05	6.53E-05	8.76E-05	6.52E-05	6.51E-05
TEEN	8.52E-05	8.49E-05	9.93E-07	8.54E-05	8.52E-05	1.20E-04	8.49E-05	8.48E-05
CHILD	1.35E-04	1.34E-04	2.20E-06	1.35E-04	1.35E-04	2.04E-04	1.34E-04	1.34E-04
INFANT	2.04E-04	2.03E-04	3.01E-06	2.05E-04	2.04E-04	3.74E-04	2.04E-04	2.03E-04
INHAL								
ADULT	5.25E-05	5.24E-05	1.14E-06	5.24E-05	5.25E-05	6.06E-05	5.26E-05	5.24E-05
TEEN	5.28E-05	5.28E-05	1.32E-06	5.28E-05	5.28E-05	6.28E-05	5.31E-05	5.27E-05
CHILD	4.68E-05	4.67E-05	1.53E-06	4.67E-05	4.67E-05	5.78E-05	4.70E-05	4.66E-05
INFANT	2.69E-05	2.68E-05	6.39E-07	2.69E-05	2.69E-05	3.71E-05	2.71E-05	2.68E-05

TABLE VII-A-24

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 24 BEEF
AT 2.45 MILES WSW

ANNUAL BETA AIR DOSE = 7.57E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.45E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	: 2.78E-05	: 2.78E-05	: 2.78E-05	: 2.78E-05	: 2.78E-05	: 2.78E-05	: 2.85E-05	: 6.14E-05
GROUND	: 1.53E-07	: 1.53E-07	: 1.53E-07	: 1.53E-07	: 1.53E-07	: 1.53E-07	: 1.53E-07	: 1.78E-07
VEGET								
ADULT	: 2.12E-05	: 2.03E-05	: 4.14E-06	: 2.02E-05	: 2.02E-05	: 3.82E-05	: 2.00E-05	: 2.00E-05
TEEN	: 2.45E-05	: 2.32E-05	: 5.50E-06	: 2.32E-05	: 2.31E-05	: 4.58E-05	: 2.30E-05	: 2.29E-05
CHILD	: 3.86E-05	: 3.58E-05	: 1.13E-05	: 3.59E-05	: 3.58E-05	: 7.84E-05	: 3.56E-05	: 3.55E-05
MEAT								
ADULT	: 2.90E-06	: 2.88E-06	: 7.05E-08	: 2.89E-06	: 2.89E-06	: 3.70E-06	: 2.88E-06	: 2.88E-06
TEEN	: 1.73E-06	: 1.72E-06	: 5.00E-08	: 1.73E-06	: 1.72E-06	: 2.31E-06	: 1.72E-06	: 1.72E-06
CHILD	: 2.10E-06	: 2.08E-06	: 8.16E-08	: 2.09E-06	: 2.08E-06	: 2.57E-06	: 2.08E-06	: 2.08E-06
COW MILK								
ADULT	: 6.93E-06	: 6.80E-06	: 3.45E-07	: 6.93E-06	: 6.91E-06	: 2.94E-05	: 6.77E-06	: 6.76E-06
TEEN	: 9.03E-06	: 8.85E-06	: 5.56E-07	: 9.10E-06	: 9.08E-06	: 4.45E-05	: 8.83E-06	: 8.81E-06
CHILD	: 1.43E-05	: 1.40E-05	: 1.23E-06	: 1.44E-05	: 1.44E-05	: 8.45E-05	: 1.40E-05	: 1.39E-05
INFANT	: 2.16E-05	: 2.12E-05	: 1.71E-06	: 2.22E-05	: 2.19E-05	: 1.93E-04	: 2.12E-05	: 2.11E-05
GOATMILK								
ADULT	: 1.42E-05	: 1.39E-05	: 7.44E-07	: 1.42E-05	: 1.40E-05	: 4.09E-05	: 1.38E-05	: 1.38E-05
TEEN	: 1.84E-05	: 1.80E-05	: 1.20E-06	: 1.86E-05	: 1.84E-05	: 6.09E-05	: 1.80E-05	: 1.80E-05
CHILD	: 2.91E-05	: 2.85E-05	: 2.66E-06	: 2.95E-05	: 2.91E-05	: 1.13E-04	: 2.85E-05	: 2.84E-05
INFANT	: 4.39E-05	: 4.31E-05	: 3.64E-06	: 4.54E-05	: 4.43E-05	: 2.49E-04	: 4.33E-05	: 4.31E-05
INHAL								
ADULT	: 1.11E-05	: 1.11E-05	: 2.27E-07	: 1.11E-05	: 1.11E-05	: 1.28E-05	: 1.11E-05	: 1.11E-05
TEEN	: 1.12E-05	: 1.12E-05	: 2.64E-07	: 1.12E-05	: 1.12E-05	: 1.32E-05	: 1.12E-05	: 1.12E-05
CHILD	: 9.90E-06	: 9.88E-06	: 3.07E-07	: 9.89E-06	: 9.89E-06	: 1.22E-05	: 9.94E-06	: 9.88E-06
INFANT	: 5.69E-06	: 5.68E-06	: 1.28E-07	: 5.69E-06	: 5.69E-06	: 7.79E-06	: 5.73E-06	: 5.68E-06

TABLE VII-A-25

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 25 RES
 AT 1.17 MILES W

ANNUAL BETA AIR DOSE = 5.03E-04 MILLRADS
 ANNUAL GAMMA AIR DOSE = 3.53E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.27E-04	4.64E-04
GROUND	1.36E-06	1.36E-06	1.36E-06	1.36E-06	1.36E-06	1.36E-06	1.36E-06	1.59E-06
VEGET								
ADULT	1.36E-04	1.28E-04	3.69E-05	1.27E-04	1.27E-04	2.88E-04	1.26E-04	1.26E-04
TEEN	1.57E-04	1.46E-04	4.90E-05	1.46E-04	1.45E-04	3.49E-04	1.44E-04	1.44E-04
CHILD	2.50E-04	2.25E-04	1.00E-04	2.26E-04	2.25E-04	6.06E-04	2.23E-04	2.23E-04
MEAT								
ADULT	1.83E-05	1.81E-05	6.28E-07	1.82E-05	1.81E-05	2.54E-05	1.81E-05	1.80E-05
TEEN	1.09E-05	1.08E-05	4.45E-07	1.09E-05	1.08E-05	1.61E-05	1.08E-05	1.08E-05
CHILD	1.32E-05	1.30E-05	7.27E-07	1.31E-05	1.31E-05	2.10E-05	1.30E-05	1.30E-05
COW MILK								
ADULT	4.38E-05	4.27E-05	3.08E-06	4.38E-05	4.37E-05	2.45E-04	4.25E-05	4.24E-05
TEEN	5.71E-05	5.56E-05	4.95E-06	5.78E-05	5.76E-05	3.75E-04	5.54E-05	5.52E-05
CHILD	9.04E-05	8.75E-05	1.09E-05	9.17E-05	9.12E-05	7.18E-04	8.75E-05	8.72E-05
INFANT	1.37E-04	1.33E-04	1.53E-05	1.42E-04	1.39E-04	1.67E-03	1.33E-04	1.32E-04
GOATMILK								
ADULT	8.97E-05	8.69E-05	6.63E-06	8.97E-05	8.86E-05	3.29E-04	8.67E-05	8.65E-05
TEEN	1.17E-04	1.13E-04	1.07E-05	1.18E-04	1.16E-04	4.96E-04	1.13E-04	1.13E-04
CHILD	1.84E-04	1.78E-04	2.37E-05	1.88E-04	1.84E-04	9.35E-04	1.79E-04	1.78E-04
INFANT	2.77E-04	2.70E-04	3.24E-05	2.91E-04	2.81E-04	2.11E-03	2.72E-04	2.70E-04
INHAL								
ADULT	6.97E-05	6.96E-05	1.51E-06	6.96E-05	6.96E-05	8.05E-05	6.98E-05	6.96E-05
TEEN	7.01E-05	7.00E-05	1.75E-06	7.01E-05	7.01E-05	8.34E-05	7.05E-05	7.00E-05
CHILD	6.21E-05	6.19E-05	2.04E-06	6.20E-05	6.20E-05	7.68E-05	6.23E-05	6.19E-05
INFANT	3.57E-05	3.56E-05	8.48E-07	3.57E-05	3.56E-05	4.92E-05	3.59E-05	3.56E-05

TABLE VII-A-26

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 26 VEG
AT 1.20 MILES W

ANNUAL BETA AIR DOSE = 5.00E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.50E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	: 2.21E-04	: 2.21E-04	: 2.21E-04	: 2.21E-04	: 2.21E-04	: 2.21E-04	: 2.26E-04	: 4.61E-04
GROUND	: 1.35E-06	: 1.35E-06	: 1.35E-06	: 1.35E-06	: 1.35E-06	: 1.35E-06	: 1.35E-06	: 1.58E-06
VEGET	:	:	:	:	:	:	:	:
ADULT	: 1.35E-04	: 1.27E-04	: 3.67E-05	: 1.26E-04	: 1.26E-04	: 2.87E-04	: 1.25E-04	: 1.25E-04
TEEN	: 1.56E-04	: 1.45E-04	: 4.88E-05	: 1.45E-04	: 1.44E-04	: 3.47E-04	: 1.43E-04	: 1.43E-04
CHILD	: 2.48E-04	: 2.23E-04	: 1.00E-04	: 2.25E-04	: 2.24E-04	: 6.02E-04	: 2.21E-04	: 2.21E-04
MEAT	:	:	:	:	:	:	:	:
ADULT	: 1.81E-05	: 1.80E-05	: 6.25E-07	: 1.80E-05	: 1.80E-05	: 2.52E-05	: 1.79E-05	: 1.79E-05
TEEN	: 1.08E-05	: 1.07E-05	: 4.43E-07	: 1.08E-05	: 1.07E-05	: 1.60E-05	: 1.07E-05	: 1.07E-05
CHILD	: 1.31E-05	: 1.29E-05	: 7.24E-07	: 1.30E-05	: 1.30E-05	: 2.09E-05	: 1.29E-05	: 1.29E-05
COW MILK	:	:	:	:	:	:	:	:
ADULT	: 4.35E-05	: 4.24E-05	: 3.06E-06	: 4.35E-05	: 4.34E-05	: 2.43E-04	: 4.22E-05	: 4.21E-05
TEEN	: 5.67E-05	: 5.52E-05	: 4.93E-06	: 5.74E-05	: 5.72E-05	: 3.73E-04	: 5.50E-05	: 5.48E-05
CHILD	: 8.98E-05	: 8.69E-05	: 1.09E-05	: 9.11E-05	: 9.06E-05	: 7.15E-04	: 8.69E-05	: 8.66E-05
INFANT	: 1.36E-04	: 1.32E-04	: 1.52E-05	: 1.41E-04	: 1.38E-04	: 1.66E-03	: 1.32E-04	: 1.31E-04
GOATMILK	:	:	:	:	:	:	:	:
ADULT	: 8.91E-05	: 8.63E-05	: 6.60E-06	: 8.91E-05	: 8.80E-05	: 3.27E-04	: 8.61E-05	: 8.59E-05
TEEN	: 1.16E-04	: 1.12E-04	: 1.07E-05	: 1.18E-04	: 1.16E-04	: 4.94E-04	: 1.12E-04	: 1.12E-04
CHILD	: 1.83E-04	: 1.77E-04	: 2.36E-05	: 1.87E-04	: 1.83E-04	: 9.31E-04	: 1.78E-04	: 1.77E-04
INFANT	: 2.76E-04	: 2.69E-04	: 3.23E-05	: 2.89E-04	: 2.79E-04	: 2.10E-03	: 2.70E-04	: 2.68E-04
INHAL	:	:	:	:	:	:	:	:
ADULT	: 6.92E-05	: 6.91E-05	: 1.51E-06	: 6.91E-05	: 6.91E-05	: 8.00E-05	: 6.94E-05	: 6.91E-05
TEEN	: 6.97E-05	: 6.96E-05	: 1.75E-06	: 6.96E-05	: 6.96E-05	: 8.29E-05	: 7.00E-05	: 6.95E-05
CHILD	: 6.16E-05	: 6.15E-05	: 2.04E-06	: 6.15E-05	: 6.16E-05	: 7.63E-05	: 6.19E-05	: 6.15E-05
INFANT	: 3.54E-05	: 3.54E-05	: 8.48E-07	: 3.54E-05	: 3.54E-05	: 4.89E-05	: 3.57E-05	: 3.53E-05

TABLE VII-A-27

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 27 BEEF
AT 2.06 MILES W

ANNUAL BETA AIR DOSE = 1.39E-04 MILLRADS

ANNUAL GAMMA AIR DOSE = 8.91E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.59E-05	5.59E-05	5.59E-05	5.59E-05	5.59E-05	5.59E-05	5.72E-05	1.20E-04
GROUND	3.34E-07	3.34E-07	3.34E-07	3.34E-07	3.34E-07	3.34E-07	3.34E-07	3.90E-07
VEGET								
ADULT	3.85E-05	3.65E-05	9.05E-06	3.63E-05	3.62E-05	7.58E-05	3.60E-05	3.59E-05
TEEN	4.45E-05	4.18E-05	1.20E-05	4.17E-05	4.16E-05	9.13E-05	4.12E-05	4.12E-05
CHILD	7.04E-05	6.43E-05	2.47E-05	6.46E-05	6.44E-05	1.58E-04	6.38E-05	6.37E-05
MEAT								
ADULT	5.22E-06	5.18E-06	1.54E-07	5.20E-06	5.18E-06	6.96E-06	5.17E-06	5.17E-06
TEEN	3.12E-06	3.09E-06	1.09E-07	3.11E-06	3.10E-06	4.38E-06	3.08E-06	3.08E-06
CHILD	3.77E-06	3.73E-06	1.78E-07	3.76E-06	3.74E-06	5.69E-06	3.73E-06	3.72E-06
COW MILK								
ADULT	1.25E-05	1.22E-05	7.55E-07	1.25E-05	1.25E-05	6.16E-05	1.22E-05	1.21E-05
TEEN	1.63E-05	1.59E-05	1.22E-06	1.64E-05	1.64E-05	9.41E-05	1.59E-05	1.58E-05
CHILD	2.57E-05	2.50E-05	2.69E-06	2.61E-05	2.59E-05	1.80E-04	2.50E-05	2.50E-05
INFANT	3.89E-05	3.80E-05	3.75E-06	4.03E-05	3.96E-05	4.14E-04	3.80E-05	3.79E-05
GOATMILK								
ADULT	2.55E-05	2.49E-05	1.63E-06	2.56E-05	2.53E-05	8.42E-05	2.48E-05	2.48E-05
TEEN	3.32E-05	3.28E-05	2.63E-06	3.37E-05	3.32E-05	1.26E-04	3.24E-05	3.22E-05
CHILD	5.24E-05	5.02E-05	5.82E-06	5.34E-05	5.25E-05	2.36E-04	5.12E-05	5.09E-05
INFANT	7.91E-05	7.76E-05	7.95E-06	8.24E-05	7.99E-05	5.28E-04	7.77E-05	7.73E-05
INHAL								
ADULT	2.00E-05	1.99E-05	4.15E-07	1.99E-05	1.99E-05	2.30E-05	2.00E-05	1.99E-05
TEEN	2.01E-05	2.01E-05	4.82E-07	2.01E-05	2.01E-05	2.38E-05	2.02E-05	2.00E-05
CHILD	1.78E-05	1.77E-05	5.61E-07	1.77E-05	1.77E-05	2.19E-05	1.78E-05	1.77E-05
INFANT	1.02E-05	1.02E-05	2.34E-07	1.02E-05	1.02E-05	1.40E-05	1.03E-05	1.02E-05

TABLE VII-A-28

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 28 RES, VEG
 AT 2.04 MILES WNW

ANNUAL BETA AIR DOSE = 2.55E-04 MILLRADS
 ANNUAL GAMMA AIR DOSE = 1.63E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.04E-04	2.19E-04
GROUND	6.46E-07	6.46E-07	6.46E-07	6.46E-07	6.46E-07	6.46E-07	6.46E-07	7.54E-07
VEGET								
ADULT	7.07E-05	6.67E-05	1.75E-05	6.64E-05	6.63E-05	1.43E-04	6.58E-05	6.57E-05
TEEN	8.17E-05	7.65E-05	2.33E-05	7.63E-05	7.60E-05	1.72E-04	7.53E-05	7.52E-05
CHILD	1.29E-04	1.17E-04	4.77E-05	1.18E-04	1.18E-04	2.98E-04	1.17E-04	1.17E-04
MEAT								
ADULT	9.55E-06	9.46E-06	2.98E-07	9.50E-06	9.48E-06	1.29E-05	9.45E-06	9.44E-06
TEEN	5.70E-06	5.64E-06	2.11E-07	5.68E-06	5.66E-06	8.15E-06	5.64E-06	5.63E-06
CHILD	6.89E-06	6.81E-06	3.45E-07	6.87E-06	6.84E-06	1.06E-05	6.81E-06	6.80E-06
COW MILK								
ADULT	2.29E-05	2.23E-05	1.46E-06	2.29E-05	2.28E-05	1.18E-04	2.22E-05	2.22E-05
TEEN	2.98E-05	2.91E-05	2.35E-06	3.01E-05	3.00E-05	1.80E-04	2.90E-05	2.89E-05
CHILD	4.71E-05	4.58E-05	5.20E-06	4.78E-05	4.75E-05	3.45E-04	4.58E-05	4.56E-05
INFANT	7.13E-05	6.94E-05	7.26E-06	7.39E-05	7.25E-05	7.96E-04	6.95E-05	6.92E-05
GOATMILK								
ADULT	4.68E-05	4.55E-05	3.15E-06	4.68E-05	4.62E-05	1.60E-04	4.54E-05	4.52E-05
TEEN	6.08E-05	5.92E-05	5.08E-06	6.17E-05	6.07E-05	2.41E-04	5.92E-05	5.89E-05
CHILD	9.60E-05	9.34E-05	1.13E-05	9.79E-05	9.61E-05	4.52E-04	9.35E-05	9.31E-05
INFANT	1.45E-04	1.42E-04	1.54E-05	1.51E-04	1.46E-04	1.01E-03	1.42E-04	1.41E-04
INHAL								
ADULT	3.65E-05	3.64E-05	7.59E-07	3.64E-05	3.64E-05	4.20E-05	3.65E-05	3.64E-05
TEEN	3.67E-05	3.67E-05	8.80E-07	3.67E-05	3.67E-05	4.35E-05	3.69E-05	3.66E-05
CHILD	3.25E-05	3.24E-05	1.03E-06	3.24E-05	3.24E-05	4.00E-05	3.26E-05	3.24E-05
INFANT	1.87E-05	1.86E-05	4.27E-07	1.87E-05	1.87E-05	2.56E-05	1.88E-05	1.86E-05

TABLE VII-A-29

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 29 BEEF
 AT 2.74 MILES WNW

ANNUAL BETA AIR DOSE = 1.35E-04 MILLRADS
 ANNUAL GAMMA AIR DOSE = 8.14E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.09E-05	5.09E-05	5.09E-05	5.09E-05	5.09E-05	5.09E-05	5.21E-05	1.11E-04
GROUND	3.28E-07	3.28E-07	3.28E-07	3.28E-07	3.28E-07	3.28E-07	3.28E-07	3.82E-07
VEGET								
ADULT	3.80E-05	3.60E-05	8.88E-06	3.59E-05	3.58E-05	7.46E-05	3.55E-05	3.55E-05
TEEN	4.39E-05	4.13E-05	1.18E-05	4.12E-05	4.11E-05	8.98E-05	4.07E-05	4.07E-05
CHILD	6.95E-05	6.35E-05	2.42E-05	6.39E-05	6.36E-05	1.55E-04	6.31E-05	6.30E-05
MEAT								
ADULT	5.16E-06	5.11E-06	1.51E-07	5.13E-06	5.12E-06	6.86E-06	5.11E-06	5.10E-06
TEEN	3.08E-06	3.05E-06	1.07E-07	3.07E-06	3.06E-06	4.32E-06	3.05E-06	3.05E-06
CHILD	3.72E-06	3.68E-06	1.75E-07	3.71E-06	3.70E-06	5.60E-06	3.68E-06	3.68E-06
COW MILK								
ADULT	1.23E-05	1.21E-05	7.41E-07	1.23E-05	1.23E-05	6.05E-05	1.20E-05	1.20E-05
TEEN	1.61E-05	1.57E-05	1.19E-06	1.62E-05	1.62E-05	9.24E-05	1.57E-05	1.56E-05
CHILD	2.54E-05	2.47E-05	2.64E-06	2.58E-05	2.56E-05	1.76E-04	2.47E-05	2.47E-05
INFANT	3.85E-05	3.75E-05	3.68E-06	3.98E-05	3.91E-05	4.06E-04	3.76E-05	3.74E-05
GOATMILK								
ADULT	2.52E-05	2.46E-05	1.60E-06	2.52E-05	2.50E-05	8.27E-05	2.45E-05	2.45E-05
TEEN	3.28E-05	3.20E-05	2.58E-06	3.32E-05	3.28E-05	1.24E-04	3.20E-05	3.19E-05
CHILD	5.18E-05	5.05E-05	5.71E-06	5.27E-05	5.18E-05	2.32E-04	5.05E-05	5.03E-05
INFANT	7.82E-05	7.65E-05	7.81E-06	8.13E-05	7.89E-05	5.18E-04	7.68E-05	7.64E-05
INHAL								
ADULT	1.97E-05	1.97E-05	3.97E-07	1.97E-05	1.97E-05	2.27E-05	1.98E-05	1.97E-05
TEEN	1.98E-05	1.98E-05	4.60E-07	1.98E-05	1.98E-05	2.35E-05	1.99E-05	1.98E-05
CHILD	1.76E-05	1.75E-05	5.36E-07	1.75E-05	1.75E-05	2.16E-05	1.76E-05	1.75E-05
INFANT	1.01E-05	1.01E-05	2.23E-07	1.01E-05	1.01E-05	1.38E-05	1.02E-05	1.01E-05

TABLE VII-A-30

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 30 RES, VEG
AT 2.43 MILES NW

ANNUAL BETA AIR DOSE = 2.13E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.30E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.13E-05	8.13E-05	8.13E-05	8.13E-05	8.13E-05	8.13E-05	8.32E-05	1.77E-04
GROUND	5.07E-07	5.07E-07	5.07E-07	5.07E-07	5.07E-07	5.07E-07	5.07E-07	5.92E-07
VEGET								
ADULT	5.98E-05	5.67E-05	1.37E-05	5.64E-05	5.63E-05	1.16E-04	5.59E-05	5.59E-05
TEEN	6.91E-05	6.50E-05	1.83E-05	6.48E-05	6.46E-05	1.40E-04	6.41E-05	6.40E-05
CHILD	1.09E-04	9.99E-05	3.74E-05	1.00E-04	1.00E-04	2.41E-04	9.92E-05	9.91E-05
MEAT								
ADULT	8.12E-06	8.05E-06	2.34E-07	8.08E-06	8.06E-06	1.08E-05	8.04E-06	8.03E-06
TEEN	4.84E-06	4.80E-06	1.66E-07	4.83E-06	4.81E-06	6.76E-06	4.80E-06	4.79E-06
CHILD	5.86E-06	5.79E-06	2.71E-07	5.84E-06	5.82E-06	8.77E-06	5.79E-06	5.79E-06
COW MILK								
ADULT	1.94E-05	1.90E-05	1.15E-06	1.94E-05	1.94E-05	9.40E-05	1.89E-05	1.89E-05
TEEN	2.53E-05	2.47E-05	1.85E-06	2.55E-05	2.55E-05	1.43E-04	2.46E-05	2.46E-05
CHILD	4.00E-05	3.89E-05	4.08E-06	4.05E-05	4.03E-05	2.73E-04	3.89E-05	3.88E-05
INFANT	6.05E-05	5.90E-05	5.69E-06	6.25E-05	6.14E-05	6.29E-04	5.91E-05	5.89E-05
GOATMILK								
ADULT	3.97E-05	3.87E-05	2.47E-06	3.97E-05	3.93E-05	1.29E-04	3.86E-05	3.85E-05
TEEN	5.16E-05	5.04E-05	3.99E-06	5.23E-05	5.15E-05	1.93E-04	5.04E-05	5.01E-05
CHILD	8.15E-05	7.94E-05	8.83E-06	8.29E-05	8.15E-05	3.61E-04	7.96E-05	7.92E-05
INFANT	1.23E-04	1.20E-04	1.21E-05	1.28E-04	1.24E-04	8.04E-04	1.21E-04	1.20E-04
INHAL								
ADULT	3.10E-05	3.10E-05	6.35E-07	3.10E-05	3.10E-05	3.57E-05	3.11E-05	3.10E-05
TEEN	3.12E-05	3.12E-05	7.36E-07	3.12E-05	3.12E-05	3.70E-05	3.14E-05	3.12E-05
CHILD	2.76E-05	2.76E-05	8.58E-07	2.76E-05	2.76E-05	3.40E-05	2.77E-05	2.76E-05
INFANT	1.59E-05	1.58E-05	3.57E-07	1.59E-05	1.59E-05	2.17E-05	1.60E-05	1.58E-05

TABLE VII-A-31

PORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 31 COW, PORK, BEEF
AT 3.47 MILES NW

ANNUAL BETA AIR DOSE = 1.02E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.77E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.58E-05	3.58E-05	3.58E-05	3.58E-05	3.58E-05	3.58E-05	3.68E-05	8.04E-05
GROUND	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.52E-07
VEGET								
ADULT	2.90E-05	2.77E-05	5.85E-06	2.76E-05	2.75E-05	5.30E-05	2.74E-05	2.73E-05
TEEN	3.35E-05	3.17E-05	7.78E-06	3.17E-05	3.16E-05	6.36E-05	3.13E-05	3.13E-05
CHILD	5.28E-05	4.88E-05	1.59E-05	4.91E-05	4.89E-05	1.09E-04	4.85E-05	4.85E-05
MEAT								
ADULT	3.97E-06	3.94E-06	9.96E-08	3.95E-06	3.94E-06	5.09E-06	3.93E-06	3.93E-06
TEEN	2.37E-06	2.35E-06	7.06E-08	2.36E-06	2.35E-06	3.18E-06	2.35E-06	2.34E-06
CHILD	2.86E-06	2.83E-06	1.15E-07	2.85E-06	2.84E-06	4.10E-06	2.83E-06	2.83E-06
COW MILK								
ADULT	9.46E-06	9.28E-06	4.88E-07	9.46E-06	9.44E-06	4.11E-05	9.25E-06	9.23E-06
TEEN	1.23E-05	1.21E-05	7.85E-07	1.24E-05	1.24E-05	6.25E-05	1.21E-05	1.20E-05
CHILD	1.95E-05	1.90E-05	1.73E-06	1.97E-05	1.96E-05	1.19E-04	1.90E-05	1.90E-05
INFANT	2.95E-05	2.89E-05	2.42E-06	3.04E-05	2.99E-05	2.71E-04	2.89E-05	2.88E-05
GOATMILK								
ADULT	1.93E-05	1.89E-05	1.05E-06	1.93E-05	1.92E-05	5.71E-05	1.89E-05	1.88E-05
TEEN	2.52E-05	2.46E-05	1.70E-06	2.54E-05	2.51E-05	8.51E-05	2.46E-05	2.45E-05
CHILD	3.97E-05	3.88E-05	3.76E-06	4.03E-05	3.97E-05	1.58E-04	3.89E-05	3.88E-05
INFANT	6.00E-05	5.89E-05	5.14E-06	6.21E-05	6.05E-05	3.49E-04	5.91E-05	5.88E-05
INHAL								
ADULT	1.52E-05	1.52E-05	2.96E-07	1.52E-05	1.52E-05	1.74E-05	1.52E-05	1.52E-05
TEEN	1.53E-05	1.53E-05	3.44E-07	1.53E-05	1.53E-05	1.80E-05	1.53E-05	1.52E-05
CHILD	1.35E-05	1.35E-05	4.01E-07	1.35E-05	1.35E-05	1.66E-05	1.36E-05	1.35E-05
INFANT	7.77E-06	7.75E-06	1.67E-07	7.76E-06	7.76E-06	1.06E-05	7.82E-06	7.75E-06

TABLE VII-A-32

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
SPECIAL LOCATION NO. 32 RES
AT 2.02 MILES NNW

ANNUAL BETA AIR DOSE = 2.80E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.70E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.09E-04	2.33E-04
GROUND	8.13E-07	8.13E-07	8.13E-07	8.13E-07	8.13E-07	8.13E-07	8.13E-07	9.49E-07
VEGET								
ADULT	7.98E-05	7.48E-05	2.20E-05	7.44E-05	7.42E-05	1.70E-04	7.36E-05	7.35E-05
TEEN	9.23E-05	8.58E-05	2.93E-05	8.55E-05	8.52E-05	2.06E-04	8.43E-05	8.42E-05
CHILD	1.46E-04	1.32E-04	6.01E-05	1.33E-04	1.32E-04	3.59E-04	1.31E-04	1.30E-04
MEAT								
ADULT	1.07E-05	1.06E-05	3.75E-07	1.06E-05	1.06E-05	1.49E-05	1.06E-05	1.06E-05
TEEN	6.39E-06	6.32E-06	2.66E-07	6.36E-06	6.34E-06	9.47E-06	6.31E-06	6.30E-06
CHILD	7.73E-06	7.62E-06	4.34E-07	7.69E-06	7.66E-06	1.24E-05	7.62E-06	7.62E-06
COW MILK								
ADULT	2.57E-05	2.50E-05	1.84E-06	2.57E-05	2.56E-05	1.45E-04	2.49E-05	2.48E-05
TEEN	3.35E-05	3.26E-05	2.96E-06	3.39E-05	3.38E-05	2.23E-04	3.24E-05	3.23E-05
CHILD	5.30E-05	5.13E-05	6.54E-06	5.38E-05	5.34E-05	4.27E-04	5.13E-05	5.11E-05
INFANT	8.01E-05	7.77E-05	9.13E-06	8.33E-05	8.16E-05	9.91E-04	7.78E-05	7.75E-05
GOATMILK								
ADULT	5.26E-05	5.09E-05	3.96E-06	5.26E-05	5.19E-05	1.95E-04	5.08E-05	5.06E-05
TEEN	6.83E-05	6.63E-05	6.40E-06	6.94E-05	6.82E-05	2.94E-04	6.63E-05	6.59E-05
CHILD	1.08E-04	1.05E-04	1.42E-05	1.10E-04	1.08E-04	5.55E-04	1.05E-04	1.04E-04
INFANT	1.63E-04	1.58E-04	1.94E-05	1.70E-04	1.64E-04	1.25E-03	1.59E-04	1.58E-04
INHAL								
ADULT	4.08E-05	4.08E-05	8.52E-07	4.08E-05	4.08E-05	4.70E-05	4.09E-05	4.07E-05
TEEN	4.11E-05	4.10E-05	9.88E-07	4.10E-05	4.10E-05	4.87E-05	4.13E-05	4.10E-05
CHILD	3.63E-05	3.63E-05	1.15E-06	3.63E-05	3.63E-05	4.48E-05	3.65E-05	3.62E-05
INFANT	2.09E-05	2.08E-05	4.79E-07	2.09E-05	2.09E-05	2.87E-05	2.10E-05	2.08E-05

TABLE VII-A-33

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 12-13-94
 SPECIAL LOCATION NO. 33 VEG
 AT 4.14 MILES NNW

ANNUAL BETA AIR DOSE = 6.16E-05 MILLRADS
 ANNUAL GAMMA AIR DOSE = 3.02E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.85E-05	1.85E-05	1.85E-05	1.85E-05	1.85E-05	1.85E-05	1.91E-05	4.39E-05
GROUND	1.53E-07	1.53E-07	1.53E-07	1.53E-07	1.53E-07	1.53E-07	1.53E-07	1.79E-07
VEGET								
ADULT	1.84E-05	1.74E-05	4.15E-06	1.74E-05	1.73E-05	3.53E-05	1.72E-05	1.72E-05
TEEN	2.12E-05	2.00E-05	5.51E-06	1.99E-05	1.99E-05	4.25E-05	1.97E-05	1.97E-05
CHILD	3.35E-05	3.07E-05	1.13E-05	3.09E-05	3.08E-05	7.32E-05	3.05E-05	3.05E-05
MEAT								
ADULT	2.50E-06	2.48E-06	7.06E-08	2.49E-06	2.48E-06	3.29E-06	2.47E-06	2.47E-06
TEEN	1.49E-06	1.48E-06	5.01E-08	1.49E-06	1.48E-06	2.07E-06	1.48E-06	1.47E-06
CHILD	1.80E-06	1.78E-06	8.18E-08	1.80E-06	1.79E-06	2.67E-06	1.78E-06	1.78E-06
COW MILK								
ADULT	5.97E-06	5.84E-06	3.46E-07	5.97E-06	5.96E-06	2.83E-05	5.82E-06	5.81E-06
TEEN	7.78E-06	7.61E-06	5.57E-07	7.85E-06	7.83E-06	4.32E-05	7.58E-06	7.56E-06
CHILD	1.23E-05	1.20E-05	1.23E-06	1.25E-05	1.24E-05	8.23E-05	1.20E-05	1.19E-05
INFANT	1.86E-05	1.82E-05	1.72E-06	1.92E-05	1.89E-05	1.89E-04	1.82E-05	1.81E-05
GOATMILK								
ADULT	1.22E-05	1.19E-05	7.45E-07	1.22E-05	1.21E-05	3.89E-05	1.19E-05	1.18E-05
TEEN	1.59E-05	1.55E-05	1.20E-06	1.61E-05	1.58E-05	5.82E-05	1.55E-05	1.54E-05
CHILD	2.50E-05	2.44E-05	2.66E-06	2.55E-05	2.51E-05	1.09E-04	2.45E-05	2.44E-05
INFANT	3.78E-05	3.70E-05	3.64E-06	3.93E-05	3.82E-05	2.42E-04	3.72E-05	3.70E-05
INHAL								
ADULT	9.54E-06	9.53E-06	1.84E-07	9.53E-06	9.54E-06	1.09E-05	9.56E-06	9.53E-06
TEEN	9.61E-06	9.59E-06	2.13E-07	9.60E-06	9.60E-06	1.13E-05	9.65E-06	9.59E-06
CHILD	8.50E-06	8.48E-06	2.49E-07	8.49E-06	8.49E-06	1.04E-05	8.53E-06	8.48E-06
INFANT	4.88E-06	4.88E-06	1.04E-07	4.88E-06	4.88E-06	6.63E-06	4.92E-06	4.88E-06

TABLE VII-B-1

FORT CALHOUN 1

DOSE CONTRIBUTIONS FROM GASEOUS EFFLUENTS
UNRESTRICTED AREA BOUNDARY

REQUIRED BY TECHNICAL SPECIFICATION 5.9.4.a.

ANNUAL FOR JANUARY 1, 1993 TO DECEMBER 31, 1993

MAXIMUM SITE BOUNDARY GAMMA AIR DOSE - 7.90E-03 MILLIRAD

MAXIMUM SITE BOUNDARY BETA AIR DOSE - 1.12E-02 MILLIRAD

TABLE VII-C-1

FORT CALHOUN SEMIANNUAL 01/93-12/93 TRI-EX TOWER DATA 02-05-94
 ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	L'NG	SKIN
PLUME	7.69E-04 28.95%	7.69E-04 29.43%	7.69E-04 79.42%	7.69E-04 29.41%	7.69E-04 29.45%	7.69E-04 22.97%	8.12E-04 30.62%	2.37E-03 56.33%
GROUND	6.73E-06 0.25%	6.73E-06 0.26%	6.73E-06 0.69%	6.73E-06 0.26%	6.73E-06 0.26%	6.73E-06 0.20%	6.73E-06 0.25%	7.86E-06 0.19%
INHAL	7.22E-04 27.20%	7.22E-04 27.62%	1.31E-05 1.35%	7.22E-04 27.60%	7.22E-04 27.65%	8.29E-04 24.78%	7.24E-04 27.31%	7.21E-04 17.15%
VEGET	7.96E-04 29.97%	7.58E-04 29.01%	1.64E-04 16.97%	7.56E-04 28.89%	7.53E-04 28.83%	7.62E-04 22.76%	7.52E-04 28.36%	7.51E-04 17.86%
COW MILK	1.91E-04 7.19%	1.88E-04 7.18%	1.10E-05 1.14%	1.92E-04 7.33%	1.91E-04 7.31%	7.64E-04 22.81%	1.87E-04 7.06%	1.87E-04 4.44%
MEAT	1.71E-04 6.43%	1.70E-04 6.49%	4.16E-06 0.43%	1.70E-04 6.51%	1.70E-04 6.51%	2.17E-04 6.47%	1.69E-04 6.39%	1.69E-04 4.03%
TOTAL	2.66E-03	2.61E-03	9.68E-04	2.61E-03	2.61E-03	3.35E-03	2.65E-03	4.21E-03

PORT CALHOUN ANNUAL 1993, DOSE PROJECTIONS

TABLE VII-D-1

DISCHARGE=8.02E+02 CFS SOURCE TERM MULTIPLIER=1.00E+00

50-MILE POPULATION=7.60E+05 FRACTION --- ADULT=0.71
TEENAGER=0.11
CHILD=0.18

FRESHWATER SITE

UNIT 1 SOURCE TERMS JANUARY 1993 - DECEMBER 1993 - LIQUID RELEASES
NO INTERNAL RECONCENTRATION MODEL EMPLOYED

* * * ADULT DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS						SHORELINE			
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
		(MREM/PCI)	(MREM/PCI)	(MREM/PCI)	(MREM/PCI)	(MREM/PCI)	(MREM/PCI)	(MREM/PCI)	(MREM/HR) / (PCI/M**2)	(MREM/HR) / (PCI/M**2)	(MREM/HR) / (PCI/M**2)
47AG 110M	4.46E-03	1.60E-07	1.48E-07	8.79E-08	0.00E+00	2.91E-07	0.00E+00	6.04E-05	2.10E-08	1.80E-08	1.00E+00
56BA 140	1.63E-04	2.03E-05	2.55E-08	1.33E-06	0.00E+00	8.67E-09	1.46E-08	4.18E-05	2.40E-09	2.10E-09	1.00E+00
4BE 7	7.94E-05	2.74E-09	6.21E-09	3.05E-09	0.00E+00	6.56E-09	0.00E+00	1.08E-06	0.00E+00	0.00E+00	1.00E+00
6C 14	1.53E-03	2.84E-06	5.68E-07	5.68E-07	5.68E-07	5.68E-07	5.68E-07	5.68E-07	0.00E+00	0.00E+00	1.00E+00
58CE 141	1.10E-04	9.36E-09	6.33E-09	7.18E-10	0.00E+00	2.94E-09	0.00E+00	2.42E-05	6.20E-10	5.50E-10	1.00E+00
58CE 144	1.86E-04	4.88E-07	2.04E-07	2.62E-08	0.00E+00	1.21E-07	0.00E+00	1.65E-04	3.70E-10	3.20E-10	1.00E+00
27CO 57	1.73E-04	0.00E+00	1.75E-07	2.91E-07	0.00E+00	0.00E+00	0.00E+00	4.44E-06	1.00E-09	9.10E-10	1.00E+00
27CO 58	1.21E-01	0.00E+00	7.45E-07	1.67E-06	0.00E+00	0.00E+00	0.00E+00	1.51E-05	8.20E-09	7.00E-09	1.00E+00
27CO 60	6.01E-03	0.00E+00	2.14E-06	4.72E-06	0.00E+00	0.00E+00	0.00E+00	4.02E-05	2.00E-08	1.70E-08	1.00E+00
24CR 51	1.46E-02	0.00E+00	0.00E+00	2.66E-09	1.59E-09	5.86E-10	3.53E-09	6.69E-07	2.60E-10	2.20E-10	1.00E+00
55CS 134	1.29E-03	6.22E-05	1.48E-04	1.21E-04	0.00E+00	4.79E-05	1.59E-05	2.59E-06	1.40E-08	1.20E-08	1.00E+00
55CS 137	6.32E-03	7.97E-05	1.09E-04	7.14E-05	0.00E+00	3.70E-05	1.23E-05	2.11E-06	4.90E-09	4.20E-09	1.00E+00
26FE 55	2.38E-01	2.75E-06	1.90E-06	4.43E-07	0.00E+00	0.00E+00	1.06E-06	1.09E-06	0.00E+00	0.00E+00	1.00E+00
26FE 59	2.36E-04	4.34E-06	1.02E-05	3.91E-06	0.00E+00	0.00E+00	2.85E-06	3.40E-05	9.40E-09	8.00E-09	1.00E+00
1H 3	2.39E+02	0.00E+00	5.99E-08	5.99E-08	5.99E-08	5.99E-08	5.99E-08	5.99E-08	0.00E+00	0.00E+00	1.00E+00
72HF 181	4.82E-05	4.70E-09	2.56E-08	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00
53I 129	8.19E-05	3.27E-06	2.81E-06	9.21E-06	7.23E-03	6.04E-06	0.00E+00	4.44E-07	7.50E-10	4.50E-10	1.00E+00
53I 131	7.90E-03	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	0.00E+00	1.57E-06	3.40E-09	2.80E-09	1.00E+00
53I 132	2.06E-05	2.03E-07	5.43E-07	1.90E-07	1.90E-07	8.65E-07	0.00E+00	1.02E-07	2.00E-08	1.70E-08	1.00E+00
53I 133	2.38E-04	1.42E-06	2.47E-06	7.53E-07	3.63E-04	4.31E-06	0.00E+00	2.22E-06	4.50E-09	3.70E-09	1.00E+00
57LA 140	8.88E-04	2.50E-09	1.26E-09	3.33E-10	0.00E+00	0.00E+00	0.00E+00	9.25E-05	1.70E-08	1.50E-08	1.00E+00
57LA 141	4.52E-05	3.19E-10	9.90E-11	1.62E-11	0.00E+00	0.00E+00	0.00E+00	1.18E-05	2.80E-10	2.50E-10	1.00E+00
25MN 54	8.46E-04	0.00E+00	4.57E-06	8.72E-07	0.00E+00	1.36E-06	0.00E+00	1.40E-05	6.80E-09	5.80E-09	1.00E+00
42MO 99	3.27E-05	0.00E+00	4.31E-06	8.20E-07	0.00E+00	9.76E-06	0.00E+00	9.99E-06	2.20E-09	1.90E-09	1.00E+00
41NB 95	6.03E-03	6.22E-09	3.46E-09	1.86E-09	0.00E+00	3.42E-09	0.00E+00	2.10E-05	6.00E-09	5.10E-09	1.00E+00
28NI 63	4.70E-04	1.30E-04	9.01E-06	4.36E-06	0.00E+00	0.00E+00	0.00E+00	1.88E-06	0.00E+00	0.00E+00	1.00E+00
15P 32	1.19E-05	1.93E-04	1.20E-05	7.46E-06	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	1.00E+00
59PR 144	1.86E-04	3.01E-11	1.25E-11	1.53E-12	0.00E+00	7.05E-12	0.00E+00	4.33E-18	2.30E-10	2.00E-10	1.00E+00
44RU 103	2.77E-04	1.85E-07	0.00E+00	7.97E-08	0.00E+00	7.06E-07	0.00E+00	2.16E-05	4.20E-09	3.60E-09	1.00E+00
44RU 106	1.06E-04	2.75E-06	0.00E+00	3.48E-07	0.00E+00	5.31E-06	0.00E+00	1.78E-04	1.80E-09	1.50E-09	1.00E+00
51SB 122	2.95E-04	2.25E-07	4.41E-09	6.55E-08	3.16E-09	0.00E+00	1.17E-07	6.59E-05	0.00E+00	0.00E+00	1.00E+00
51SB 124	1.88E-02	2.80E-06	5.29E-08	1.11E-06	6.79E-09	0.00E+00	2.18E-06	7.95E-05	1.50E-08	1.30E-08	1.00E+00
51SB 125	8.06E-02	1.79E-06	2.00E-08	4.26E-07	1.82E-09	0.00E+00	1.38E-06	1.97E-05	3.50E-09	3.10E-09	1.00E+00
51SB 126	4.65E-04	1.15E-06	2.34E-08	4.15E-07	7.04E-09	0.00E+00	7.05E-07	9.40E-05	1.00E-08	8.90E-09	1.00E+00
34SE 75	1.01E-03	0.00E+00	4.90E-06	1.91E-06	0.00E+00	7.15E-06	0.00E+00	7.15E-07	0.00E+00	0.00E+00	1.00E+00
50SN 113	2.08E-04	7.91E-06	2.18E-07	4.53E-07	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00
38SR 89	6.05E-04	3.08E-04	0.00E+00	8.84E-06	0.00E+00	0.00E+00	0.00E+00	4.94E-05	6.50E-13	5.60E-13	1.00E+00
38SR 90	7.69E-04	8.71E-03	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	1.00E+00
43TC 99M	3.27E-05	2.47E-10	6.98E-10	8.89E-09	0.00E+00	1.06E-08	3.42E-10	4.13E-07	1.10E-09	9.60E-10	1.00E+00
52TE 132	2.11E-05	2.52E-06	1.63E-06	1.53E-06	1.80E-06	1.57E-05	0.00E+00	7.71E-05	2.00E-09	1.70E-09	1.00E+00
39Y 90	7.69E-04	9.62E-09	0.00E+00	2.58E-10	0.00E+00	0.00E+00	0.00E+00	1.02E-04	2.60E-12	2.20E-12	1.00E+00
30ZN 65	4.07E-05	4.84E-06	1.54E-05	6.96E-06	0.00E+00	1.03E-05	0.00E+00	9.70E-06	4.60E-09	4.00E-09	1.00E+00
40ZR 95	3.93E-03	3.04E-08	9.75E-09	6.60E-09	0.00E+00	1.53E-08	0.00E+00	3.09E-05	5.80E-09	5.00E-09	1.00E+00

TABLE VII-D-1 (CONT.)

* * * TEENAGER DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		RECON
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	
47AG 110M	4.46E-03	2.05E-07	1.94E-07	1.18E-07	0.00E+00	3.70E-07	0.00E+00	5.45E-05			
56BA 140	1.63E-04	2.84E-05	3.48E-08	1.83E-06	0.00E+00	1.18E-08	2.34E-08	4.38E-05			
4BE 7	7.94E-05	3.92E-09	8.79E-09	4.35E-09	0.00E+00	9.37E-09	0.00E+00	1.08E-06			
6C 14	1.53E-03	4.06E-06	8.12E-07	8.12E-07	8.12E-07	8.12E-07	8.12E-07	8.12E-07			
58CE 141	1.10E-04	1.33E-08	8.88E-09	1.02E-09	0.00E+00	4.18E-09	0.00E+00	2.54E-05			
58CE 144	1.86E-04	6.96E-07	2.88E-07	3.74E-08	0.00E+00	1.72E-07	0.00E+00	1.75E-04			
27CO 57	1.73E-04	0.00E+00	2.38E-07	3.99E-07	0.00E+00	0.00E+00	0.00E+00	4.44E-06			
27CO 58	1.21E-01	0.00E+00	9.72E-07	2.24E-06	0.00E+00	0.00E+00	0.00E+00	1.34E-05			
27CO 60	6.01E-03	0.00E+00	2.81E-06	6.33E-06	0.00E+00	0.00E+00	0.00E+00	3.66E-05			
24CR 51	1.46E-02	0.00E+00	0.00E+00	3.60E-09	2.00E-09	7.89E-10	5.14E-09	6.05E-07			
55CS 134	1.29E-03	8.37E-05	1.97E-04	9.14E-05	0.00E+00	6.26E-05	2.39E-05	2.45E-06			
55CS 137	6.32E-03	1.12E-04	1.49E-04	5.19E-05	0.00E+00	5.07E-05	1.97E-05	2.12E-05			
26FE 55	2.38E-01	3.78E-06	2.68E-06	6.25E-07	0.00E+00	0.00E+00	1.70E-06	1.16E-06			
26FE 59	2.36E-04	5.87E-06	1.37E-05	5.29E-06	0.00E+00	0.00E+00	4.32E-06	3.24E-05			
1H 3	2.39E+02	0.00E+00	6.04E-08	6.04E-08	6.04E-08	6.04E-08	6.04E-08	6.04E-08			
72HF 181	4.82E-05	6.72E-09	3.63E-08	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
53I 129	8.19E-05	4.66E-06	3.92E-06	6.54E-06	4.77E-03	7.01E-06	0.00E+00	4.57E-07			
53I 131	7.90E-03	5.85E-06	8.13E-06	4.40E-06	2.39E-03	1.41E-05	0.00E+00	1.62E-06			
53I 132	2.06E-05	2.79E-07	7.30E-07	2.62E-07	2.46E-05	1.15E-06	0.00E+00	3.18E-07			
53I 133	2.38E-04	2.01E-06	3.41E-06	1.04E-06	4.76E-04	5.98E-06	0.00E+00	2.58E-06			
57LA 140	8.88E-04	3.48E-09	1.71E-09	4.55E-10	0.00E+00	0.00E+00	0.00E+00	9.82E-05			
57LA 141	4.52E-05	4.55E-10	1.40E-10	2.31E-11	0.00E+00	0.00E+00	0.00E+00	2.48E-05			
25MN 54	8.46E-04	0.00E+00	5.90E-06	1.17E-06	0.00E+00	1.76E-06	0.00E+00	1.21E-05			
42MO 99	3.27E-05	0.00E+00	6.03E-06	1.15E-06	0.00E+00	1.38E-05	0.00E+00	1.08E-05			
41NB 95	6.03E-03	8.22E-09	4.56E-09	2.51E-09	0.00E+00	4.42E-09	0.00E+00	1.95E-05			
28NI 63	4.70E-04	1.77E-04	1.25E-05	6.00E-06	0.00E+00	0.00E+00	0.00E+00	1.99E-06			
15P 32	1.19E-05	2.76E-04	1.71E-05	1.07E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-05			
59PR 144	1.86E-04	4.30E-11	1.76E-11	2.18E-12	0.00E+00	1.01E-11	0.00E+00	4.74E-14			
44RU 103	2.77E-04	2.55E-07	0.00E+00	1.09E-07	0.00E+00	8.99E-07	0.00E+00	2.13E-05			
44RU 106	1.06E-04	3.92E-06	0.00E+00	4.94E-07	0.00E+00	7.56E-05	0.00E+00	1.88E-04			
51SB 122	2.95E-04	3.21E-07	6.24E-09	9.35E-08	4.22E-09	0.00E+00	2.02E-07	6.91E-05			
51SB 124	1.88E-02	3.87E-06	7.13E-08	1.51E-06	8.78E-09	0.00E+00	3.38E-06	7.80E-05			
51SB 125	8.06E-02	2.48E-06	2.71E-08	5.80E-07	2.37E-09	0.00E+00	2.18E-06	1.93E-05			
51SB 126	4.65E-04	1.59E-06	3.25E-08	5.71E-07	8.99E-09	0.00E+00	1.14E-06	9.41E-05			
34SE 75	1.01E-03	0.00E+00	6.95E-06	2.74E-06	0.00E+00	1.02E-05	0.00E+00	7.15E-07			
50SN 113	2.08E-04	1.13E-05	3.08E-07	6.48E-07	1.72E-07	0.00E+00	0.00E+00	0.00E+00			
38SR 89	6.05E-04	4.40E-04	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	5.24E-05			
38SR 90	7.69E-04	1.02E-02	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	2.33E-04			
43TC 99M	3.27E-05	3.32E-10	9.26E-10	1.20E-08	0.00E+00	1.38E-08	5.14E-10	6.08E-07			
52TE 132	2.11E-05	3.49E-06	2.21E-06	2.08E-06	2.33E-06	2.12E-05	0.00E+00	7.00E-05			
39Y 90	7.69E-04	1.37E-08	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	1.13E-04			
30ZN 65	4.07E-05	5.76E-06	2.00E-05	9.33E-06	0.00E+00	1.28E-05	0.00E+00	8.47E-06			
40ZR 95	3.93E-03	4.12E-08	1.30E-08	8.94E-09	0.00E+00	1.91E-08	0.00E+00	3.00E-05			

TABLE VII-D-1 (CONT.)

* * * CHILD DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
47AG 110M	4.46E-03	5.39E-07	3.64E-07	2.91E-07	0.00E+00	6.78E-07	0.00E+00	4.33E-05			
56BA 140	1.63E-04	8.31E-05	7.28E-08	4.85E-06	0.00E+00	2.37E-08	4.34E-08	4.21E-05			
4BE 7	7.94E-05	1.17E-08	1.99E-08	1.30E-08	0.00E+00	1.97E-08	0.00E+00	1.12E-06			
6C 14	1.53E-03	1.21E-05	2.42E-06	2.42E-06	2.42E-06	2.42E-06	2.42E-06	2.42E-06			
58CE 141	1.10E-04	3.97E-08	1.98E-08	2.94E-09	0.00E+00	8.68E-09	0.00E+00	2.47E-05			
58CE 144	1.86E-04	2.08E-06	6.52E-07	1.11E-07	0.00E+00	3.61E-07	0.00E+00	1.70E-04			
27CO 57	1.73E-04	0.00E+00	4.93E-07	9.98E-07	0.00E+00	0.00E+00	0.00E+00	4.04E-06			
27CO 58	1.21E-01	0.00E+00	1.80E-06	5.51E-06	0.00E+00	0.00E+00	0.00E+00	1.05E-05			
27CO 60	6.01E-03	0.00E+00	5.29E-06	1.56E-05	0.00E+00	0.00E+00	0.00E+00	2.93E-05			
24CR 51	1.46E-02	0.00E+00	0.00E+00	8.90E-09	4.94E-09	1.35E-09	9.02E-09	4.72E-07			
55CS 134	1.29E-03	2.34E-04	3.84E-04	8.10E-05	0.00E+00	1.19E-04	4.27E-05	2.07E-06			
55CS 137	6.32E-03	3.27E-04	3.13E-04	4.62E-05	0.00E+00	1.02E-04	3.67E-05	1.55E-06			
26FE 55	2.38E-01	1.15E-05	6.10E-06	1.89E-06	0.00E+00	0.00E+00	3.45E-06	1.13E-06			
26FE 59	2.36E-04	1.65E-05	2.67E-05	1.33E-05	0.00E+00	0.00E+00	7.74E-06	2.78E-05			
1H 3	2.39E-02	0.00E+00	1.16E-07	1.16E-07	1.16E-07	1.16E-07	1.16E-07	1.16E-07			
72HF 181	4.82E-05	2.01E-08	8.22E-08	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
53I 129	8.19E-05	1.39E-05	8.53E-06	7.62E-06	5.58E-03	1.44E-05	0.00E+00	4.29E-07			
53I 131	7.90E-03	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	0.00E+00	1.54E-06			
53I 132	2.06E-05	8.00E-07	1.47E-06	6.76E-07	6.82E-05	2.25E-06	0.00E+00	1.73E-06			
53I 133	2.38E-04	5.92E-06	7.32E-06	2.77E-06	1.36E-03	1.22E-05	0.00E+00	2.95E-06			
57LA 140	8.88E-04	1.01E-08	3.53E-09	1.19E-09	0.00E+00	0.00E+00	0.00E+00	9.84E-05			
57LA 141	4.52E-05	1.36E-09	3.17E-10	6.88E-11	0.00E+00	0.00E+00	0.00E+00	7.05E-05			
25MN 54	8.46E-04	0.00E+00	1.07E-05	2.85E-06	0.00E+00	3.00E-06	0.00E+00	8.98E-06			
42MO 99	3.27E-05	0.00E+00	1.33E-05	3.29E-06	0.00E+00	2.84E-05	0.00E+00	1.10E-05			
41NB 95	6.03E-03	2.25E-08	8.76E-09	6.26E-09	0.00E+00	8.23E-09	0.00E+00	1.62E-05			
28NI 63	4.70E-04	5.38E-04	2.88E-05	1.83E-05	0.00E+00	0.00E+00	0.00E+00	1.94E-06			
15P 32	1.19E-05	8.25E-04	3.86E-05	3.18E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-05			
59PR 144	1.86E-04	1.29E-10	3.99E-11	6.49E-12	0.00E+00	2.11E-11	0.00E+00	8.59E-08			
44RU 103	2.77E-04	7.31E-07	0.00E+00	2.81E-07	0.00E+00	1.84E-06	0.00E+00	1.89E-05			
44RU 106	1.06E-04	1.17E-05	0.00E+00	1.46E-06	0.00E+00	1.58E-05	0.00E+00	1.82E-04			
51SB 122	2.95E-04	9.60E-07	1.41E-08	2.79E-07	1.27E-08	0.00E+00	3.91E-07	7.55E-05			
51SB 124	1.88E-02	1.11E-05	1.44E-07	3.89E-06	2.45E-08	0.00E+00	6.16E-06	6.94E-05			
51SB 125	8.06E-02	7.16E-06	5.52E-08	1.50E-06	6.63E-09	0.00E+00	3.99E-06	1.71E-05			
51SB 126	4.65E-04	4.40E-06	6.73E-08	1.58E-06	2.58E-08	0.00E+00	2.10E-06	8.87E-05			
34SE 75	1.01E-03	0.00E+00	1.57E-05	8.17E-06	0.00E+00	2.14E-05	0.00E+00	7.37E-07			
50SN 113	2.08E-04	3.38E-05	6.98E-07	1.94E-06	5.15E-07	0.00E+00	0.00E+00	0.00E+00			
38SP 89	6.05E-04	1.32E-03	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	5.11E-05			
38SR 90	7.69E-04	2.56E-02	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	2.29E-04			
43TC 99M	3.27E-05	9.23E-10	1.81E-09	3.00E-08	0.00E+00	2.63E-08	9.19E-10	1.03E-06			
52TE 132	2.11E-05	1.01E-05	4.47E-06	5.40E-06	6.51E-06	4.15E-05	0.00E+00	4.50E-05			
39Y 90	7.69E-04	4.11E-08	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	1.17E-04			
30ZN 65	4.07E-05	1.37E-05	3.65E-05	2.27E-05	0.00E+00	2.30E-05	0.00E+00	6.41E-06			
40ZR 95	3.93E-03	1.16E-07	2.55E-08	2.27E-08	0.00E+00	3.65E-08	0.00E+00	2.66E-05			

TABLE VII-D-1 (CONT.)

* * * INFANT DOSE FACTORS * * *

		INGESTION DOSE FACTORS (MREM/PCI INTAKE)								SHORELINE (MREM/HR) / (PCI/M**2)		
NUCLIDE	CURIE/YEAR	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON	
47AG 110M	4.46E-03	9.96E-07	7.27E-07	4.81E-07	0.00E+00	1.04E-06	0.00E+00	3.77E-05				
56BA 140	1.63E-04	1.71E-04	1.72E-07	8.81E-06	0.00E+00	4.06E-08	1.05E-07	4.20E-05				
4BE 7	7.94E-05	2.25E-08	4.70E-08	2.53E-08	0.00E+00	3.34E-08	0.00E+00	1.71E-06				
6C 14	1.53E-03	2.37E-05	5.06E-06	5.06E-06	5.06E-06	5.06E-06	5.06E-06	5.06E-06				
58CE 141	1.10E-04	7.87E-08	4.80E-08	5.65E-09	0.00E+00	1.48E-08	0.00E+00	2.48E-05				
58CE 144	1.86E-04	2.98E-06	1.22E-06	1.67E-07	0.00E+00	4.93E-07	0.00E+00	1.71E-04				
27CO 57	1.73E-04	0.00E+00	1.15E-06	1.87E-06	0.00E+00	0.00E+00	0.00E+00	3.92E-06				
27CO 58	1.21E-01	0.00E+00	3.60E-06	8.98E-06	0.00E+00	0.00E+00	0.00E+00	8.97E-06				
27CO 60	6.01E-03	0.00E+00	1.08E-05	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-05				
24CR 51	1.46E-02	0.00E+00	0.00E+00	1.41E-08	9.20E-09	2.01E-09	1.79E-08	4.11E-07				
55CS 134	1.29E-03	3.77E-04	7.03E-04	7.10E-05	0.00E+00	1.81E-04	7.42E-05	1.91E-06				
55CS 137	6.32E-03	5.22E-04	6.11E-04	4.33E-05	0.00E+00	1.64E-04	6.64E-05	1.91E-06				
26FE 55	2.38E-01	1.39E-05	8.98E-06	2.40E-06	0.00E+00	0.00E+00	4.39E-06	1.14E-06				
26FE 59	2.36E-04	3.08E-05	5.38E-05	2.12E-05	0.00E+00	0.00E+00	1.59E-05	2.57E-05				
1H 3	2.39E+02	0.00E+00	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07				
72HF 181	4.82E-05	3.92E-08	1.97E-07	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00				
53I 129	8.19E-05	2.86E-05	2.12E-05	1.55E-05	1.36E-02	2.51E-05	0.00E+00	4.24E-07				
53I 131	7.90E-03	3.59E-05	4.23E-05	1.86E-05	1.39E-02	4.94E-05	0.00E+00	1.51E-06				
53I 132	2.06E-05	1.66E-06	3.37E-06	1.20E-06	1.58E-04	3.76E-07	0.00E+00	2.73E-06				
53I 133	2.38E-04	1.25E-05	1.82E-05	5.33E-06	3.31E-03	2.14E-07	0.00E+00	3.08E-06				
57LA 140	8.88E-04	2.11E-08	8.32E-09	2.14E-09	0.00E+00	0.00E+00	0.00E+00	9.77E-05				
57LA 141	4.52E-05	2.89E-09	8.38E-10	1.46E-10	0.00E+00	0.00E+00	0.00E+00	9.61E-05				
25MN 54	8.46E-04	0.00E+00	1.99E-05	4.51E-06	0.00E+00	4.41E-06	0.00E+00	7.31E-06				
42MO 99	3.27E-05	0.00E+00	3.40E-05	6.63E-06	0.00E+00	5.08E-05	0.00E+00	1.12E-05				
41NB 95	6.03E-03	4.20E-08	1.73E-08	1.00E-08	0.00E+00	1.24E-08	0.00E+00	1.46E-05				
28NI 63	4.70E-04	6.34E-04	3.92E-05	2.20E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-06				
15P 32	1.19E-05	1.70E-03	1.00E-04	6.59E-05	0.00E+00	0.00E+00	0.00E+00	2.30E-05				
59PR 144	1.86E-04	2.74E-10	1.06E-10	1.38E-11	0.00E+00	3.84E-11	0.00E+00	4.93E-06				
44RU 103	2.77E-04	1.48E-06	0.00E+00	4.95E-07	0.00E+00	3.08E-06	0.00E+00	1.80E-05				
44RU 106	1.06E-04	2.41E-05	0.00E+00	3.01E-06	0.00E+00	2.85E-05	0.00E+00	1.83E-04				
51SB 122	2.95E-04	2.03E-06	3.72E-08	5.92E-07	3.15E-08	0.00E+00	1.06E-06	7.65E-05				
51SB 124	1.88E-02	2.14E-05	3.15E-07	6.63E-06	5.68E-08	0.00E+00	1.34E-05	6.60E-05				
51SB 125	8.06E-02	1.23E-05	1.19E-07	2.53E-06	1.54E-08	0.00E+00	7.12E-06	1.64E-05				
51SB 126	4.65E-04	8.06E-06	1.58E-07	2.91E-06	6.19E-08	0.00E+00	5.07E-06	8.35E-05				
34SE 75	1.01E-03	0.00E+00	3.96E-05	1.70E-05	0.00E+00	3.83E-05	0.00E+00	7.34E-07				
50SN 113	2.08E-04	6.39E-05	1.65E-06	3.89E-06	1.15E-06	0.00E+00	0.00E+00	0.00E+00				
38SR 89	6.05E-04	2.51E-03	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	5.16E-05				
38SR 90	7.69E-04	2.83E-02	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	2.31E-04				
43TC 99M	3.27E-05	1.92E-09	3.96E-09	5.10E-08	0.00E+00	4.26E-08	2.07E-09	1.15E-06				
52TE 132	2.11E-05	2.08E-05	1.03E-05	9.61E-06	1.52E-05	6.44E-05	0.00E+00	3.81E-05				
39Y 90	7.69E-04	8.69E-08	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	1.20E-04				
30ZN 65	4.07E-05	1.84E-05	6.31E-05	2.91E-05	0.00E+00	3.06E-05	0.00E+00	5.33E-05				
40ZR 95	3.93E-03	2.06E-07	5.02E-08	3.56E-08	0.00E+00	5.41E-08	0.00E+00	2.50E-05				

TOTAL NUMBER IN SOURCE TERM IS 43 TOTAL RELEASE IS 2.3922E+02

TABLE VII-D-2

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

A D U L T D O S E S

	DOSE (MREM PER YEAR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		6.79E-03	7.40E-03	5.09E-03	9.57E-04	2.46E-03	9.58E-04	1.59E-02
DRINKING		2.79E-04	5.22E-04	5.11E-04	9.70E-04	4.85E-04	4.89E-04	6.84E-04
SHORELINE	3.45E-05	2.99E-05	2.99E-05	2.99E-05	2.99E-05	2.99E-05	2.99E-05	2.99E-05
SWIMMING		9.99E-07	9.99E-07	9.99E-07	9.99E-07	9.99E-07	9.99E-07	9.99E-07
BOATING		5.00E-07	5.00E-07	5.00E-07	5.00E-07	5.00E-07	5.00E-07	5.00E-07
TOTAL	3.45E-05	7.10E-03	7.96E-03	5.63E-03	1.96E-03	2.97E-03	1.48E-03	1.66E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR-0.2
FISH	21.0	7.3	24.00	
DRINKING	730.0	30.8	18.60	
SHORELINE	12.0	7.3	0.00	
SWIMMING	12.0	7.3	0.00	
BOATING	12.0	7.3	0.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH								
AG 110M		9.68E-05	8.21E-05	7.10E-05	0.00E+00	4.87E-04	0.00E+00	1.56E-02
BA 140		7.41E-04	8.53E-07	6.48E-05	0.00E+00	8.74E-07	3.78E-06	6.53E-04
BE 7		2.54E-08	5.27E-08	3.77E-08	0.00E+00	1.68E-07	0.00E+00	4.28E-06
C 14		1.18E+00	2.17E-01	3.16E-01	1.68E+00	6.54E-01	1.68E+00	1.01E-01
CE 141		5.94E-08	3.68E-08	6.08E-09	0.00E+00	5.16E-08	0.00E+00	6.58E-05
CE 144		5.34E-06	2.05E-06	3.82E-07	0.00E+00	3.66E-06	0.00E+00	7.73E-04
CO 57		0.00E+00	8.20E-05	1.98E-04	0.00E+00	0.00E+00	0.00E+00	9.71E-04
CO 58		0.00E+00	2.41E-01	7.87E-01	0.00E+00	0.00E+00	0.00E+00	2.28E+00
CO 60		0.00E+00	3.48E-02	1.12E-01	0.00E+00	0.00E+00	0.00E+00	3.05E-01
CR 51		0.00E+00	0.00E+00	5.96E-04	1.89E-03	2.72E-04	4.20E-03	4.81E-02
CS 134		9.48E+00	2.07E+01	2.46E+01	0.00E+00	2.02E+01	1.72E+01	1.69E-01
CS 137		5.95E+01	7.46E+01	7.11E+01	0.00E+00	7.64E+01	6.51E+01	6.74E-01
FE 55		3.87E+00	2.45E+00	8.32E-01	0.00E+00	0.00E+00	1.06E+01	6.56E-01
FE 59		5.96E-03	1.28E-02	7.17E-03	0.00E+00	0.00E+00	2.77E-02	2.00E-02
H 3		0.00E+00	6.97E-01	1.01E+00	5.40E+00	2.10E+00	5.39E+00	3.26E-01
HF 181		4.35E-08	2.17E-07	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		2.37E-04	1.87E-04	8.92E-04	3.73E+00	1.21E-03	0.00E+00	1.38E-05
I 131		2.67E-02	3.50E-02	2.92E-02	8.89E+01	1.81E-01	0.00E+00	4.32E-03
I 132		2.68E-09	6.57E-09	3.34E-09	1.78E-06	3.15E-08	0.00E+00	5.76E-10
I 133		1.35E-04	2.15E-04	9.54E-05	2.45E-01	1.13E-03	0.00E+00	9.02E-05
LA 140		2.17E-06	1.00E-06	3.86E-07	0.00E+00	0.00E+00	0.00E+00	3.44E-02
LA 141		3.12E-10	8.87E-11	2.11E-11	0.00E+00	0.00E+00	0.00E+00	4.93E-06
MN 54		0.00E+00	8.36E-02	2.32E-02	0.00E+00	7.50E-02	0.00E+00	1.20E-01
MO 99		0.00E+00	5.93E-05	1.64E-05	0.00E+00	4.05E-04	0.00E+00	6.41E-05
NB 95		6.52E-02	3.33E-02	2.60E-02	0.00E+00	9.92E-02	0.00E+00	9.43E+01
NI 63		3.61E-01	2.30E-02	1.62E-02	0.00E+00	0.00E+00	0.00E+00	2.24E-03
P 32		1.30E+01	7.40E-01	6.69E-01	0.00E+00	0.00E+00	0.00E+00	6.25E-01
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		2.98E-05	0.00E+00	1.71E-05	0.00E+00	3.14E-04	0.00E+00	1.49E-03
RU 106		1.71E-04	0.00E+00	2.90E-05	0.00E+00	9.15E-04	0.00E+00	4.75E-03
SB 122		3.04E-06	5.46E-08	1.18E-06	3.03E-07	0.00E+00	1.12E-05	3.81E-04
SB 124		3.07E-03	5.33E-05	1.63E-03	5.29E-05	0.00E+00	1.70E-02	3.74E-02
SB 125		8.52E-03	8.73E-05	2.70E-03	6.15E-05	0.00E+00	4.65E-02	4.01E-02
SB 126		2.99E-05	5.58E-07	1.44E-05	1.30E-06	0.00E+00	1.30E-04	1.05E-03
SE 75		0.00E+00	4.53E-02	2.57E-02	0.00E+00	1.99E-01	0.00E+00	3.09E-03
SN 113		2.90E-01	7.34E-03	2.22E-02	3.36E-02	0.00E+00	0.00E+00	0.00E+00
SR 89		3.26E-01	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	2.24E-02
SR 90		1.19E+01	0.00E+00	3.19E-01	0.00E+00	0.00E+00	0.00E+00	1.28E-01
TC 99M		4.50E-10	1.17E-09	2.16E-08	0.00E+00	5.34E-08	4.42E-09	3.22E-07
TE 132		1.02E-03	6.03E-04	8.24E-04	5.15E-03	1.75E-02	0.00E+00	1.33E-02

TABLE VII-D-2 (CONT.)

Y 90	8.44E-06	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	3.83E-02
ZN 65	2.32E-02	6.77E-02	4.45E-02	0.00E+00	1.36E-01	0.00E+00	1.99E-02
ZR 95	2.30E-05	6.78E-06	6.68E-06	0.00E+00	3.21E-05	0.00E+00	1.00E-02
DRINKING							
AG 110M	8.46E-03	4.17E-03	2.53E-03	0.00E+00	8.83E-03	0.00E+00	1.30E+00
BA 140	3.76E-02	2.52E-05	1.34E-03	0.00E+00	9.22E-06	1.54E-05	3.16E-02
BE 7	2.56E-06	3.09E-06	1.55E-06	0.00E+00	3.51E-06	0.00E+00	4.10E-04
C 14	5.16E-02	5.51E-03	5.62E-03	2.96E-03	5.92E-03	5.88E-03	4.20E-03
CE 141	1.20E-05	4.32E-06	5.01E-07	0.00E+00	2.16E-06	0.00E+00	1.26E-02
CE 144	1.07E-03	2.39E-04	3.14E-05	0.00E+00	1.53E-04	0.00E+00	1.48E-01
CO 57	0.00E+00	1.92E-04	3.25E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-03
CO 58	0.00E+00	5.65E-01	1.29E+00	0.00E+00	0.00E+00	0.00E+00	8.73E+00
CO 60	0.00E+00	8.13E-02	1.83E-01	0.00E+00	0.00E+00	0.00E+00	1.17E+00
CR 51	0.00E+00	0.00E+00	2.46E-04	7.74E-05	5.70E-05	3.41E-04	4.62E-02
CS 134	9.52E-01	1.21E+00	1.01E+00	0.00E+00	4.21E-01	1.38E-01	1.61E-02
CS 137	5.97E+00	4.36E+00	2.92E+00	0.00E+00	1.59E+00	5.25E-01	6.44E-02
FE 55	7.77E+00	2.86E+00	6.82E-01	0.00E+00	0.00E+00	1.71E+00	1.25E+00
FE 59	1.20E-02	1.51E-02	5.89E-03	0.00E+00	0.00E+00	4.49E-03	3.83E-02
H 3	0.00E+00	9.05E+01	9.24E+01	4.87E+01	9.74E+01	9.66E+01	6.91E+01
HF 181	2.66E-06	7.72E-06	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	3.18E-03	1.46E-03	4.88E-03	2.02E+00	3.37E-03	0.00E+00	1.76E-04
I 131	3.65E-01	2.78E-01	1.63E-01	4.91E+01	5.13E-01	0.00E+00	5.60E-02
I 132	1.82E-07	2.60E-07	9.30E-08	4.90E-06	4.46E-07	0.00E+00	3.73E-08
I 133	2.16E-03	2.00E-03	6.24E-04	1.59E-01	3.76E-03	0.00E+00	1.37E-03
LA 140	1.91E-05	5.14E-06	1.39E-06	0.00E+00	0.00E+00	0.00E+00	2.88E-01
LA 141	6.48E-09	1.07E-09	1.79E-10	0.00E+00	0.00E+00	0.00E+00	9.75E-05
MN 54	0.00E+00	2.44E-02	4.76E-03	0.00E+00	7.82E-03	0.00E+00	5.71E-02
MO 99	0.00E+00	7.33E-04	1.42E-04	0.00E+00	1.79E-03	0.00E+00	1.30E-03
NB 95	4.39E-04	1.30E-04	7.15E-05	0.00E+00	1.38E-04	0.00E+00	6.03E-01
NI 63	7.26E-01	2.68E-02	1.33E-02	0.00E+00	0.00E+00	0.00E+00	4.27E-03
P 32	2.63E-02	8.74E-04	5.55E-04	0.00E+00	0.00E+00	0.00E+00	1.21E-03
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	6.01E-04	0.00E+00	1.41E-04	0.00E+00	1.32E-03	0.00E+00	2.86E-02
RU 106	3.44E-03	0.00E+00	2.37E-04	0.00E+00	3.82E-03	0.00E+00	9.08E-02
SB 122	6.46E-04	6.76E-06	1.02E-04	2.61E-06	0.00E+00	1.91E-04	7.71E-02
SB 124	6.19E-01	6.24E-03	1.34E-01	4.31E-04	0.00E+00	2.74E-01	7.15E+00
SB 125	1.71E+00	1.02E-02	2.22E-01	4.99E-04	0.00E+00	7.51E-01	7.66E+00
SB 126	6.07E-03	6.59E-05	1.19E-03	1.07E-05	0.00E+00	2.12E-03	2.02E-01
SE 75	0.00E+00	3.12E-02	1.24E-02	0.00E+00	4.90E-02	0.00E+00	3.47E-03
SN 113	1.95E-02	2.86E-04	6.07E-04	9.12E-05	0.00E+00	0.00E+00	0.00E+00
SR 89	2.19E+00	0.00E+00	3.42E-02	0.00E+00	0.00E+00	0.00E+00	1.43E-01
SR 90	7.95E+01	0.00E+00	8.70E-01	0.00E+00	0.00E+00	0.00E+00	8.14E-01
TC 99M	1.12E-08	1.69E-08	2.20E-07	0.00E+00	2.77E-07	8.85E-09	7.65E-06
TE 132	5.35E-04	1.85E-04	1.77E-04	1.10E-04	1.91E-03	0.00E+00	6.67E-03
Y 90	7.18E-05	0.00E+00	1.05E-06	0.00E+00	0.00E+00	0.00E+00	3.10E-01
ZN 65	2.33E-03	3.95E-03	1.83E-03	0.00E+00	2.85E-03	0.00E+00	1.90E-03
ZR 95	1.41E-03	2.41E-04	1.66E-04	0.00E+00	4.06E-04	0.00E+00	5.82E-01

SHORELINE

AG 110M	3.12E+00	3.09E+00
BA 140	6.65E-04	6.72E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.94E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.84E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02
H 3	0.00E+00	0.00E+00
HF 181	0.00E+00	0.00E+00

TABLE VII-D-2 (CONT.)

I 129	4.13E-02	2.86E-02
I 131	2.87E-02	2.73E-02
I 132	5.24E-06	5.14E-06
I 133	1.24E-04	1.17E-04
LA 140	3.37E-03	3.43E-03
LA 141	2.76E-07	2.85E-07
MN 54	2.39E-01	2.35E-01
MO 99	2.62E-05	2.62E-05
NB 95	1.69E-01	1.66E-01
NI 63	0.00E+00	0.00E+00
P 32	0.00E+00	0.00E+00
PR 144	6.80E-08	6.83E-08
RU 103	6.09E-03	6.03E-03
RU 106	9.31E-03	8.96E-03
SB 122	0.00E+00	0.00E+00
SB 124	2.26E+00	2.26E+00
SB 125	3.76E+01	3.85E+01
SB 126	7.66E-03	7.88E-03
SE 75	0.00E+00	0.00E+00
SN 113	0.00E+00	0.00E+00
SR 89	2.64E-06	2.62E-06
SR 90	0.00E+00	0.00E+00
TC 99M	1.20E-06	1.21E-06
TE 132	1.83E-05	1.80E-05
Y 90	7.11E-07	6.95E-07
ZN 65	6.06E-03	6.09E-03
ZR 95	1.94E-01	1.94E-01

SWIMMING

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04

TABLE VII-D-2 (CONT.)

SR	90	9.53E-05
TC	99M	1.80E-03
TE	132	1.94E-03
Y	90	2.29E-03
ZN	65	1.03E-02
ZR	95	1.35E+00
BOATING		
AG	110M	5.02E+00
BA	140	1.83E-02
BE	7	0.00E+00
C	14	0.00E+00
CE	141	3.27E-03
CE	144	3.66E-03
CO	57	8.75E-03
CO	58	4.98E+01
CO	60	6.34E+00
CR	51	1.74E-01
CS	134	8.58E-01
CS	137	1.45E+00
FE	55	3.50E-03
FE	59	1.19E-01
H	3	0.00E+00
HF	181	0.00E+00
I	129	3.19E-04
I	131	1.41E+00
I	132	2.08E-02
I	133	5.25E-02
LA	140	8.36E-01
LA	141	5.29E-04
MN	54	2.91E-01
MO	99	3.52E-03
NB	95	1.94E+00
NI	63	0.00E+00
P	32	1.75E-05
PR	144	2.38E-03
RU	103	5.66E-02
RU	106	9.22E-03
SB	122	0.00E+00
SB	124	1.55E+01
SB	125	1.44E+01
SB	126	2.56E-01
SE	75	0.00E+00
SN	113	0.00E+00
SR	89	6.38E-04
SR	90	9.53E-05
TC	99M	1.80E-03
TE	132	1.94E-03
Y	90	2.29E-03
ZN	65	1.03E-02
ZR	95	1.35E+00

TABLE VII-D-3

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

TEENAGER DOSES

			DOSE (MREM PER YEAR INTAKE)					
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		7.11E-03	7.66E-03	2.94E-03	8.72E-04	2.53E-03	1.13E-03	1.13E-02
DRINKING		2.37E-04	3.81E-04	3.60E-04	7.51E-04	3.45E-04	3.52E-04	4.74E-04
SHORELINE	1.93E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04
SWIMMING		5.58E-06	5.58E-06	5.58E-06	5.58E-06	5.58E-06	5.58E-06	5.58E-06
BOATING		2.79E-06	2.79E-06	2.79E-06	2.79E-06	2.79E-06	2.79E-06	2.79E-06
TOTAL	1.93E-04	7.52E-03	8.22E-03	3.47E-03	1.80E-03	3.05E-03	1.66E-03	1.19E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	7.3	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	67.0	7.3	0.00	
SWIMMING	67.0	7.3	0.00	
BOATING	67.0	7.3	0.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH								
AG 110M		9.03E-05	7.92E-05	1.26E-04	0.00E+00	4.58E-04	0.00E+00	1.52E-02
BA 140		7.54E-04	8.57E-07	1.18E-04	0.00E+00	8.81E-07	3.90E-06	7.35E-04
BE 7		2.64E-08	5.50E-08	7.10E-08	0.00E+00	1.78E-07	0.00E+00	4.60E-06
C 14		1.23E+00	2.28E-01	5.95E-01	2.01E+00	6.92E-01	1.55E+00	1.55E-01
CE 141		6.14E-08	3.81E-08	1.14E-08	0.00E+00	5.43E-08	0.00E+00	7.41E-05
CE 144		5.54E-06	2.13E-06	7.20E-07	0.00E+00	3.85E-06	0.00E+00	8.80E-04
CO 57		0.00E+00	8.21E-05	3.59E-04	0.00E+00	0.00E+00	0.00E+00	1.04E-03
CO 58		0.00E+00	2.32E-01	1.39E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+00
CO 60		0.00E+00	3.37E-02	1.98E-01	0.00E+00	0.00E+00	0.00E+00	2.99E-01
CR 51		0.00E+00	0.00E+00	1.06E-03	1.99E-03	2.71E-04	3.95E-03	4.67E-02
CS 134		9.28E+00	2.03E+01	2.45E+01	0.00E+00	1.95E+01	1.67E+01	1.72E-01
CS 137		6.09E+01	7.51E+01	6.82E+01	0.00E+00	7.75E+01	6.73E+01	7.28E-01
FE 55		3.87E+00	2.55E+00	1.55E+00	0.00E+00	0.00E+00	1.09E+01	7.50E-01
FE 59		5.87E-03	1.27E-02	1.28E-02	0.00E+00	0.00E+00	2.71E-02	2.05E-02
H 3		0.00E+00	5.18E-01	1.35E+00	4.55E+00	1.57E+00	3.51E+00	3.53E-01
HF 181		4.53E-08	2.27E-07	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		2.46E-04	1.92E-04	8.36E-04	2.05E+00	1.04E-03	0.00E+00	1.53E-05
I 131		2.73E-02	3.55E-02	4.98E-02	9.11E+01	1.85E-01	0.00E+00	4.78E-03
I 132		2.68E-09	6.50E-09	6.08E-09	1.92E-06	3.10E-08	0.00E+00	1.93E-09
I 133		1.39E-04	2.19E-04	1.74E-04	2.68E-01	1.16E-03	0.00E+00	1.13E-04
LA 140		2.20E-06	1.00E-06	6.96E-07	0.00E+00	0.00E+00	0.00E+00	3.92E-02
LA 141		3.23E-10	9.23E-11	3.97E-11	0.00E+00	0.00E+00	0.00E+00	1.11E-05
MN 54		0.00E+00	7.95E-02	4.11E-02	0.00E+00	7.19E-02	0.00E+00	1.11E-01
MO 99		0.00E+00	6.10E-05	3.04E-05	0.00E+00	4.24E-04	0.00E+00	7.45E-05
NB 95		6.28E-02	3.23E-02	4.54E-02	0.00E+00	9.49E-02	0.00E+00	9.41E+01
NI 63		3.58E-01	2.35E-02	2.94E-02	0.00E+00	0.00E+00	0.00E+00	2.54E-03
P 32		1.35E+01	7.76E-01	1.27E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-01
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		2.99E-05	0.00E+00	3.09E-05	0.00E+00	2.96E-04	0.00E+00	1.58E-03
RU 106		1.78E-04	0.00E+00	5.43E-05	0.00E+00	9.65E-04	0.00E+00	5.39E-03
SB 122		3.15E-06	5.69E-08	2.22E-06	3.38E-07	0.00E+00	1.25E-05	4.29E-04
SB 124		3.09E-03	5.28E-05	2.92E-03	5.72E-05	0.00E+00	1.70E-02	3.94E-02
SB 125		8.59E-03	8.70E-05	4.86E-03	6.69E-05	0.00E+00	4.74E-02	4.22E-02
SB 126		3.01E-05	5.70E-07	2.61E-05	1.39E-06	0.00E+00	1.35E-04	1.12E-03
SE 75		0.00E+00	4.73E-02	4.87E-02	0.00E+00	2.11E-01	0.00E+00	3.32E-03
SN 113		3.02E-01	7.63E-03	4.19E-02	3.75E-02	0.00E+00	0.00E+00	0.00E+00
SR 89		3.39E-01	0.00E+00	2.35E-02	0.00E+00	0.00E+00	0.00E+00	2.55E-02
SR 90		1.01E+01	0.00E+00	4.90E-01	0.00E+00	0.00E+00	0.00E+00	1.46E-01
TC 99M		4.41E-10	1.14E-09	3.85E-08	0.00E+00	5.15E-08	4.29E-09	5.10E-07
TE 132		1.02E-03	6.02E-04	1.48E-03	5.58E-03	1.75E-02	0.00E+00	1.30E-02

TABLE VII-D-3 (CONT.)

Y 90	8.75E-06	0.00E+00	5.70E-07	0.00E+00	0.00E+00	0.00E+00	4.56E-02
ZN 65	2.01E-02	6.47E-02	7.87E-02	0.00E+00	1.26E-01	0.00E+00	1.87E-02
ZR 95	2.27E-05	6.65E-06	1.19E-05	0.00E+00	2.96E-05	0.00E+00	1.05E-02
DRINKING							
AG 110M	8.91E-03	5.25E-03	3.37E-03	0.00E+00	1.10E-02	0.00E+00	1.18E+00
BA 140	4.33E-02	3.30E-05	1.83E-03	0.00E+00	1.23E-05	2.40E-05	3.33E-02
BE 7	3.01E-06	4.19E-06	2.19E-06	0.00E+00	4.93E-06	0.00E+00	4.13E-04
C 14	6.07E-02	7.55E-03	7.97E-03	3.82E-03	8.32E-03	8.17E-03	6.06E-03
CE 141	1.40E-05	5.82E-06	7.06E-07	0.00E+00	3.02E-06	0.00E+00	1.33E-02
CE 144	1.26E-03	3.24E-04	4.44E-05	0.00E+00	2.13E-04	0.00E+00	1.58E-01
CO 57	0.00E+00	2.50E-04	4.42E-04	0.00E+00	0.00E+00	0.00E+00	3.74E-03
CO 58	0.00E+00	7.06E-01	1.72E+00	0.00E+00	0.00E+00	0.00E+00	7.81E+00
CO 60	0.00E+00	1.02E-01	2.44E-01	0.00E+00	0.00E+00	0.00E+00	1.07E+00
CR 51	0.00E+00	0.00E+00	3.30E-04	8.78E-05	7.54E-05	4.82E-04	4.21E-02
CS 134	1.05E+00	1.54E+00	7.55E-01	0.00E+00	5.40E-01	2.02E-01	1.54E-02
CS 137	6.91E+00	5.71E+00	2.10E+00	0.00E+00	2.14E+00	8.18E-01	6.52E-02
FE 55	8.78E+00	3.87E+00	9.54E-01	0.00E+00	0.00E+00	2.66E+00	1.35E+00
FE 59	1.34E-02	1.94E-02	7.91E-03	0.00E+00	0.00E+00	6.62E-03	3.68E-02
H 3	0.00E+00	8.75E+01	9.24E+01	4.43E+01	9.65E+01	9.47E+01	7.02E+01
HF 181	3.12E-06	1.05E-05	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	3.72E-03	1.95E-03	3.43E-03	1.20E+00	3.84E-03	0.00E+00	1.82E-04
I 131	4.22E-01	3.67E-01	2.08E-01	5.43E+01	6.97E-01	0.00E+00	5.83E-02
I 132	2.06E-07	3.35E-07	1.27E-07	5.72E-06	5.83E-07	0.00E+00	1.17E-07
I 133	2.51E-03	2.65E-03	8.54E-04	1.88E-01	5.13E-03	0.00E+00	1.61E-03
LA 140	2.19E-05	6.69E-06	1.88E-06	0.00E+00	0.00E+00	0.00E+00	3.08E-01
LA 141	7.60E-09	1.45E-09	2.53E-10	0.00E+00	0.00E+00	0.00E+00	2.07E-04
MN 54	0.00E+00	3.02E-02	6.33E-03	0.00E+00	9.94E-03	0.00E+00	4.98E-02
MO 99	0.00E+00	9.83E-04	1.98E-04	0.00E+00	2.48E-03	0.00E+00	1.41E-03
NB 95	4.77E-04	1.64E-04	9.56E-05	0.00E+00	1.76E-04	0.00E+00	5.64E-01
NI 63	8.13E-01	3.57E-02	1.81E-02	0.00E+00	0.00E+00	0.00E+00	4.56E-03
P 32	3.10E-02	1.19E-03	7.89E-04	0.00E+00	0.00E+00	0.00E+00	1.30E-03
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	6.81E-04	0.00E+00	1.91E-04	0.00E+00	1.65E-03	0.00E+00	2.84E-02
RU 106	4.04E-03	0.00E+00	3.34E-04	0.00E+00	5.34E-03	0.00E+00	9.67E-02
SB 122	7.58E-04	9.17E-06	1.45E-04	3.14E-06	0.00E+00	3.21E-04	8.14E-02
SB 124	7.04E-01	8.06E-03	1.80E-01	5.03E-04	0.00E+00	4.14E-01	7.08E+00
SB 125	1.95E+00	1.32E-02	2.99E-01	5.87E-04	0.00E+00	1.15E+00	7.57E+00
SB 126	6.91E-03	8.78E-05	1.63E-03	1.23E-05	0.00E+00	3.33E-03	2.04E-01
SE 75	0.00E+00	4.24E-02	1.77E-02	0.00E+00	6.87E-02	0.00E+00	3.50E-03
SN 113	2.29E-02	3.88E-04	8.61E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.57E+00	0.00E+00	4.83E-02	0.00E+00	0.00E+00	0.00E+00	1.53E-01
SR 90	7.66E+01	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-01
TC 99M	1.24E-08	2.15E-08	2.95E-07	0.00E+00	3.54E-07	1.29E-08	1.13E-05
TE 132	6.10E-04	2.40E-04	2.39E-04	1.28E-04	2.54E-03	0.00E+00	6.10E-03
Y 90	8.42E-05	0.00E+00	1.49E-06	0.00E+00	0.00E+00	0.00E+00	3.46E-01
ZN 65	2.28E-03	4.92E-03	2.43E-03	0.00E+00	3.48E-03	0.00E+00	1.67E-03
ZR 95	1.57E-03	3.08E-04	2.23E-04	0.00E+00	4.98E-04	0.00E+00	5.69E-01

SHORELINE

AG 110M	3.12E+00	3.09E+00
BA 140	6.65E-04	6.72E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.94E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.84E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02
H 3	0.00E+00	0.00E+00
HF 181	0.00E+00	0.00E+00

TABLE VII-D-3 (CONT.)

I 129	4.13E-02	2.86E-02
I 131	2.87E-02	2.73E-02
I 132	5.24E-06	5.14E-06
I 133	1.24E-04	1.17E-04
LA 140	3.37E-03	3.43E-03
LA 141	2.76E-07	2.85E-07
MN 54	2.39E-01	2.35E-01
MO 99	2.62E-05	2.62E-05
NB 95	1.69E-01	1.66E-01
NI 63	0.00E+00	0.00E+00
P 32	0.00E+00	0.00E+00
PR 144	6.80E-08	6.83E-08
RU 103	6.09E-03	6.03E-03
RU 106	9.31E-03	8.96E-03
SB 122	0.00E+00	0.00E+00
SB 124	2.26E+00	2.26E+00
SB 125	3.76E+01	3.85E+01
SB 126	7.66E-03	7.88E-03
SE 75	0.00E+00	0.00E+00
SN 113	0.00E+00	0.00E+00
SR 89	2.64E-06	2.62E-06
SR 90	0.00E+00	0.00E+00
TC 99M	1.20E-06	1.21E-06
TE 132	1.83E-05	1.80E-05
Y 90	7.11E-07	6.95E-07
ZN 65	6.06E-03	6.09E-03
ZR 95	1.94E-01	1.94E-01

SWIMMING

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04

TABLE VII-D-3 (CONT.)

SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00
BOATING	
AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
FR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-D-4

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

CHILD DOSES

	DOSE (MREM PER YEAR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		8.84E-03	6.86E-03	1.29E-03	8.88E-04	2.17E-03	9.21E-04	4.08E-03
DRINKING		6.19E-04	7.40E-04	6.93E-04	1.63E-03	6.64E-04	6.75E-04	7.62E-04
SHORELINE	4.03E-05	3.48E-05	3.48E-05	3.48E-05	3.48E-05	3.48E-05	3.48E-05	3.48E-05
SWIMMING		1.17E-06	1.17E-06	1.17E-06	1.17E-06	1.17E-06	1.17E-06	1.17E-06
BOATING		5.83E-07	5.83E-07	5.83E-07	5.83E-07	5.83E-07	5.83E-07	5.83E-07
TOTAL	4.03E-05	9.49E-03	7.64E-03	2.02E-03	2.55E-03	2.87E-03	1.63E-03	4.87E-03

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR-0.2
FISH	6.9	7.3	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	14.0	7.3	0.00	
SWIMMING	14.0	7.3	0.00	
BOATING	14.0	7.3	0.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH								
AG 110M		8.24E-05	7.16E-05	3.06E-04	0.00E+00	4.21E-04	0.00E+00	1.43E-02
BA 140		7.66E-04	8.64E-07	3.07E-04	0.00E+00	8.87E-07	3.84E-06	8.41E-04
BE 7		2.74E-08	5.99E-08	2.09E-07	0.00E+00	1.87E-07	0.00E+00	5.68E-06
C 14		1.27E+00	3.28E-01	1.75E+00	2.53E+00	1.03E+00	2.44E+00	5.51E-01
CE 141		6.36E-08	4.09E-08	3.24E-08	0.00E+00	5.65E-08	0.00E+00	8.58E-05
CE 144		5.74E-06	2.32E-06	2.11E-06	0.00E+00	4.05E-06	0.00E+00	1.02E-03
CO 57		0.00E+00	8.19E-05	8.85E-04	0.00E+00	0.00E+00	0.00E+00	1.13E-03
CO 58		0.00E+00	2.07E-01	3.38E+00	0.00E+00	0.00E+00	0.00E+00	2.03E+00
CO 60		0.00E+00	3.05E-02	4.80E-01	0.00E+00	0.00E+00	0.00E+00	2.85E-01
CR 51		0.00E+00	0.00E+00	2.59E-03	2.08E-03	2.33E-04	3.67E-03	4.34E-02
CS 134		9.00E+00	1.90E+01	2.14E+01	0.00E+00	1.86E+01	1.58E+01	1.73E-01
CS 137		6.16E+01	7.60E+01	5.99E+01	0.00E+00	7.82E+01	6.64E+01	8.01E-01
FE 55		4.09E+00	2.79E+00	4.62E+00	0.00E+00	0.00E+00	1.18E+01	8.70E-01
FE 59		5.72E-03	1.19E-02	3.17E-02	0.00E+00	0.00E+00	2.58E-02	2.09E-02
H 3		0.00E+00	4.79E-01	2.56E+00	3.70E+00	1.51E+00	3.57E+00	8.06E-01
HF 181		4.70E-08	2.47E-07	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		2.55E-04	2.01E-04	9.60E-04	1.02E+00	1.07E-03	0.00E+00	1.70E-05
I 131		2.79E-02	3.61E-02	1.10E-01	9.24E+01	1.87E-01	0.00E+00	5.41E-03
I 132		2.66E-09	6.30E-09	1.55E-08	2.26E-06	3.04E-08	0.00E+00	1.25E-08
I 133		1.42E-04	2.26E-04	4.56E-04	3.25E-01	1.19E-03	0.00E+00	1.53E-04
LA 140		2.21E-06	9.97E-07	1.79E-06	0.00E+00	0.00E+00	0.00E+00	4.68E-02
LA 141		3.35E-10	1.01E-10	1.17E-10	0.00E+00	0.00E+00	0.00E+00	3.77E-05
MN 54		0.00E+00	6.94E-02	9.87E-02	0.00E+00	6.14E-02	0.00E+00	9.81E-02
MO 99		0.00E+00	6.49E-05	8.56E-05	0.00E+00	4.37E-04	0.00E+00	9.03E-05
NR 95		5.96E-02	2.99E-02	1.14E-01	0.00E+00	8.86E-02	0.00E+00	9.30E+01
NI 63		3.78E-01	2.60E-02	8.83E-02	0.00E+00	0.00E+00	0.00E+00	2.95E-03
P 32		1.40E+01	8.44E-01	3.71E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-01
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		2.97E-05	0.00E+00	7.86E-05	0.00E+00	3.04E-04	0.00E+00	1.67E-03
RU 106		1.84E-04	0.00E+00	1.58E-04	0.00E+00	1.01E-03	0.00E+00	6.21E-03
SB 122		3.27E-06	6.19E-08	6.54E-06	4.31E-07	0.00E+00	1.28E-05	5.58E-04
SB 124		3.08E-03	5.14E-05	7.41E-03	6.76E-05	0.00E+00	1.64E-02	4.17E-02
SB 125		8.60E-03	8.54E-05	1.24E-02	7.93E-05	0.00E+00	4.60E-02	4.45E-02
SB 126		2.89E-05	5.69E-07	7.13E-05	1.69E-06	0.00E+00	1.32E-04	1.26E-03
SE 75		0.00E+00	5.15E-02	1.43E-01	0.00E+00	2.22E-01	0.00E+00	4.07E-03
SN 113		3.13E-01	8.33E-03	1.24E-01	4.75E-02	0.00E+00	0.00E+00	0.00E+00
SR 89		3.52E-01	0.00E+00	6.92E-02	0.00E+00	0.00E+00	0.00E+00	2.96E-02
SR 90		8.82E+00	0.00E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-01
TC 99M		4.25E-10	1.07E-09	9.50E-08	0.00E+00	4.92E-08	4.06E-09	1.03E-06
TE 132		1.03E-03	5.86E-04	3.78E-03	6.60E-03	1.72E-02	0.00E+00	9.94E-03

TABLE VII-D-4 (CONT.)

Y 90	9.10E-06	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	5.62E-02
ZN 65	1.66E-02	5.69E-02	1.89E-01	0.00E+00	1.13E-01	0.00E+00	1.68E-02
ZR 95	2.22E-05	6.29E-06	2.99E-05	0.00E+00	2.84E-05	0.00E+00	1.10E-02
DRINKING							
AG 110M	8.95E-03	5.06E-03	4.32E-03	0.00E+00	1.05E-02	0.00E+00	5.85E-01
BA 140	4.84E-02	3.55E-05	2.53E-03	0.00E+00	1.29E-05	2.32E-05	1.99E-02
BE 7	3.43E-06	4.88E-06	3.40E-06	0.00E+00	5.39E-06	0.00E+00	2.67E-04
C 14	6.91E-02	1.16E-02	1.23E-02	5.25E-03	1.29E-02	1.27E-02	1.12E-02
CE 141	1.60E-05	6.67E-06	1.06E-06	0.00E+00	3.26E-06	0.00E+00	8.08E-03
CE 144	1.44E-03	3.77E-04	6.85E-05	0.00E+00	2.33E-04	0.00E+00	9.55E-02
CO 57	0.00E+00	2.66E-04	5.75E-04	0.00E+00	0.00E+00	0.00E+00	2.12E-03
CO 58	0.00E+00	6.72E-01	2.20E+00	0.00E+00	0.00E+00	0.00E+00	3.81E+00
CO 60	0.00E+00	9.91E-02	3.12E-01	0.00E+00	0.00E+00	0.00E+00	5.34E-01
CR 51	0.00E+00	0.00E+00	4.24E-04	1.00E-04	6.71E-05	4.41E-04	2.04E-02
CS 134	1.13E+00	1.54E+00	3.48E-01	0.00E+00	5.34E-01	1.88E-01	8.09E-03
CS 137	7.70E+00	6.17E+00	9.73E-01	0.00E+00	2.24E+00	7.93E-01	3.75E-02
FE 55	1.02E+01	4.53E+00	1.50E+00	0.00E+00	0.00E+00	2.81E+00	8.16E-01
FE 59	1.43E-02	1.94E-02	1.03E-02	0.00E+00	0.00E+00	6.17E-03	1.97E-02
H 3	0.00E+00	8.64E+01	9.23E+01	3.92E+01	9.64E+01	9.47E+01	8.40E+01
HF 181	3.57E-06	1.22E-05	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	4.24E-03	2.18E-03	2.08E-03	6.47E-01	4.10E-03	0.00E+00	1.07E-04
I 131	4.74E-01	3.99E-01	2.42E-01	5.99E+01	7.30E-01	0.00E+00	3.45E-02
I 132	2.26E-07	3.47E-07	1.71E-07	7.31E-06	5.93E-07	0.00E+00	3.97E-07
I 133	2.83E-03	2.93E-03	1.18E-03	2.47E-01	5.44E-03	0.00E+00	1.15E-03
LA 140	2.43E-05	7.10E-06	2.56E-06	0.00E+00	0.00E+00	0.00E+00	1.92E-01
LA 141	8.68E-09	1.69E-09	3.92E-10	0.00E+00	0.00E+00	0.00E+00	3.66E-04
MN 54	0.00E+00	2.82E-02	8.02E-03	0.00E+00	8.81E-03	0.00E+00	2.30E-02
MO 99	0.00E+00	1.11E-03	2.94E-04	0.00E+00	2.65E-03	0.00E+00	8.96E-04
NB 95	4.99E-04	1.62E-04	1.24E-04	0.00E+00	1.70E-04	0.00E+00	2.92E-01
NI 63	9.44E-01	4.23E-02	2.87E-02	0.00E+00	0.00E+00	0.00E+00	2.77E-03
P 32	3.54E-02	1.39E-03	1.22E-03	0.00E+00	0.00E+00	0.00E+00	7.95E-04
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	7.46E-04	0.00E+00	2.56E-04	0.00E+00	1.75E-03	0.00E+00	1.57E-02
RU 106	4.61E-03	0.00E+00	5.14E-04	0.00E+00	5.80E-03	0.00E+00	5.83E-02
SB 122	8.66E-04	1.06E-05	2.25E-04	4.35E-06	0.00E+00	3.24E-04	5.54E-02
SB 124	7.71E-01	8.37E-03	2.41E-01	6.47E-04	0.00E+00	3.92E-01	3.92E+00
SB 125	2.15E+00	1.39E-02	4.03E-01	7.56E-04	0.00E+00	1.10E+00	4.18E+00
SB 126	7.30E-03	9.35E-05	2.34E-03	1.63E-05	0.00E+00	3.20E-03	1.20E-01
SE 75	0.00E+00	4.93E-02	2.74E-02	0.00E+00	7.49E-02	0.00E+00	2.25E-03
SM 113	2.61E-02	4.52E-04	1.34E-03	1.51E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.94E+00	0.00E+00	7.52E-02	0.00E+00	0.00E+00	0.00E+00	9.27E-02
SR 90	7.34E+01	0.00E+00	1.32E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-01
TC 99M	1.32E-08	2.16E-08	3.83E-07	0.00E+00	3.51E-07	1.20E-08	1.20E-05
TE 132	6.74E-04	2.50E-04	3.22E-04	1.65E-04	2.58E-03	0.00E+00	2.44E-03
Y 90	9.65E-05	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	2.23E-01
ZN 65	2.07E-03	4.62E-03	3.07E-03	0.00E+00	3.25E-03	0.00E+00	7.89E-04
ZR 95	1.69E-03	3.10E-04	2.95E-04	0.00E+00	4.95E-04	0.00E+00	3.14E-01

SHORELINE

AG 110M	3.12E+00	3.09E+00
BA 140	5.65E-04	6.72E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.94E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.84E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02
H 3	0.00E+00	0.00E+00
HF 181	0.00E+00	0.00E+00

TABLE VII-D-4 (CONT.)

I 129	4.13E-02	2.86E-02
I 131	2.87E-02	2.73E-02
I 132	5.24E-06	5.14E-06
I 133	1.24E-04	1.17E-04
LA 140	3.37E-03	3.43E-03
LA 141	2.76E-07	2.85E-07
MN 54	2.39E-01	2.35E-01
MO 99	2.62E-05	2.62E-05
NB 95	1.69E-01	1.66E-01
NI 63	0.00E+00	0.00E+00
P 32	0.00E+00	0.00E+00
PR 144	6.80E-08	6.83E-08
RU 103	6.09E-03	6.03E-03
RU 106	9.31E-03	8.96E-03
SB 122	0.00E+00	0.00E+00
SB 124	2.26E+00	2.26E+00
SB 125	3.76E+01	3.85E+01
SB 126	7.66E-03	7.88E-03
SE 75	0.00E+00	0.00E+00
SN 113	0.00E+00	0.00E+00
SR 89	2.64E-06	2.62E-06
SR 90	0.00E+00	0.00E+00
TC 99M	1.20E-06	1.21E-06
TE 132	1.83E-05	1.80E-05
Y 90	7.11E-07	6.95E-07
ZH 65	6.06E-03	6.09E-03
ZR 95	1.94E-01	1.94E-01

SWIMMING

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04

TABLE VII-D-4 (CONT.)

SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

BOATING

AG 117M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.74E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-D-5

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

I N F A N T D O S E S

	DOSE (MREM PER YEAR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DRINKING		4.85E-04	7.45E-04	6.75E-04	2.19E-03	6.53E-04	6.64E-04	7.02E-04
SHORELINE	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	4.85E-04	7.45E-04	6.75E-04	2.19E-03	6.53E-04	6.64E-04	7.02E-04

	USAGE (KG/YR, HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	0.0	7.3	24.00	
DRINKING	330.0	30.8	18.60	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING								
AG 110M		1.37E-02	6.50E-03	4.74E-03	0.00E+00	1.06E-02	0.00E+00	3.58E-01
BA 140		8.23E-02	5.36E-05	3.05E-03	0.00E+00	1.45E-05	3.69E-05	1.40E-02
BE 7		5.45E-06	7.41E-06	4.40E-06	0.00E+00	6.00E-06	0.00E+00	1.86E-04
C 14		1.12E-01	1.55E-02	1.71E-02	5.30E-03	1.77E-02	1.74E-02	1.65E-02
CE 141		2.62E-05	1.04E-05	1.35E-06	0.00E+00	3.65E-06	0.00E+00	5.70E-03
CE 144		1.70E-03	4.53E-04	6.84E-05	0.00E+00	2.09E-04	0.00E+00	6.75E-02
CO 57		0.00E+00	3.99E-04	7.16E-04	0.00E+00	0.00E+00	0.00E+00	1.44E-03
CO 58		0.00E+00	8.65E-01	2.38E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+00
CO 60		0.00E+00	1.30E-01	3.39E-01	0.00E+00	0.00E+00	0.00E+00	3.29E-01
CR 51		0.00E+00	0.00E+00	4.46E-04	8.98E-05	6.57E-05	5.76E-04	1.25E-02
CS 134		1.50E+00	1.82E+00	2.03E-01	0.00E+00	5.34E-01	2.15E-01	5.25E-03
CS 137		1.02E+01	7.74E+00	6.05E-01	0.00E+00	2.37E+00	9.44E-01	2.57E-02
FE 55		1.02E+01	4.29E+00	1.26E+00	0.00E+00	0.00E+00	2.35E+00	5.78E-01
FE 59		2.21E-02	2.52E-02	1.09E-02	0.00E+00	0.00E+00	8.35E-03	1.28E-02
H 3		0.00E+00	8.43E+01	9.30E+01	2.87E+01	9.61E+01	9.46E+01	8.95E+01
HF 181		5.75E-06	1.88E-05	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		7.22E-03	3.48E-03	2.81E-03	7.62E-01	4.70E-03	0.00E+00	7.40E-05
I 131		8.18E-01	6.27E-01	3.04E-01	7.02E+01	8.35E-01	0.00E+00	2.38E-02
I 132		3.87E-07	5.12E-07	2.01E-07	8.18E-06	6.51E-07	0.00E+00	4.40E-07
I 133		4.94E-03	4.68E-03	1.51E-03	2.90E-01	6.28E-03	0.00E+00	8.41E-04
LA 140		4.19E-05	1.08E-05	3.05E-06	0.00E+00	0.00E+00	0.00E+00	1.34E-01
LA 141		1.52E-08	2.88E-09	5.53E-10	0.00E+00	0.00E+00	0.00E+00	3.50E-04
MN 54		0.00E+00	3.37E-02	8.43E-03	0.00E+00	8.52E-03	0.00E+00	1.31E-02
MO 99		0.00E+00	1.83E-03	3.94E-04	0.00E+00	3.12E-03	0.00E+00	6.41E-04
NB 95		7.69E-04	2.06E-04	1.32E-04	0.00E+00	1.69E-04	0.00E+00	1.85E-01
NI 63		9.19E-01	3.70E-02	2.29E-02	0.00E+00	0.00E+00	0.00E+00	1.95E-03
P 32		6.03E-02	2.31E-03	1.68E-03	0.00E+00	0.00E+00	0.00E+00	5.64E-04
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		1.25E-03	0.00E+00	3.00E-04	0.00E+00	1.93E-03	0.00E+00	1.05E-02
RU 106		7.84E-03	0.00E+00	7.03E-04	0.00E+00	6.88E-03	0.00E+00	4.12E-02
SB 122		1.51E-03	1.81E-05	3.17E-04	5.21E-06	0.00E+00	5.78E-04	3.94E-02
SB 124		1.23E+00	1.18E-02	2.73E-01	7.23E-04	0.00E+00	5.62E-01	2.62E+00
SB 125		3.05E+00	1.92E-02	4.51E-01	8.48E-04	0.00E+00	1.29E+00	2.81E+00
SB 126		1.11E-02	1.41E-04	2.87E-03	1.88E-05	0.00E+00	5.08E-03	7.92E-02
SE 75		0.00E+00	7.99E-02	3.78E-02	0.00E+00	8.81E-02	0.00E+00	1.57E-03
SN 113		4.08E-02	6.86E-04	1.79E-03	1.63E-04	0.00E+00	0.00E+00	0.00E+00
SR 89		4.63E+00	0.00E+00	9.53E-02	0.00E+00	0.00E+00	0.00E+00	6.58E-02
SR 90		6.71E+01	0.00E+00	9.77E-01	0.00E+00	0.00E+00	0.00E+00	3.79E-01
TC 99M		2.27E-08	3.04E-08	4.32E-07	0.00E+00	3.73E-07	1.79E-08	9.39E-06
TE 132		1.15E-03	3.70E-04	3.81E-04	1.86E-04	2.64E-03	0.00E+00	1.45E-03
Y 90		1.69E-04	0.00E+00	3.25E-06	0.00E+00	0.00E+00	0.00E+00	1.61E-01
ZN 65		2.30E-03	5.14E-03	2.61E-03	0.00E+00	2.84E-03	0.00E+00	4.61E-03
ZR 95		2.47E-03	3.92E-04	3.07E-04	0.00E+00	4.82E-04	0.00E+00	2.08E-01

TABLE VII-D-6

* * * SELECTED LOCATION * * *

LOCATION IS SIYE DISCHG.

A D U L T D O S E S

PATHWAY	DOSE (MREM PER YEAR INTAKE)							
	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		4.96E-02	5.41E-02	3.71E-02	6.98E-03	1.79E-02	6.99E-03	1.16E-01
DRINKING		8.58E-03	1.61E-02	1.58E-02	3.02E-02	1.50E-02	1.51E-02	2.11E-02
SHORELINE	2.52E-04	2.18E-04	2.18E-04	2.18E-04	2.18E-04	2.18E-04	2.18E-04	2.18E-04
SWIMMING		7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06
BOATING		3.65E-06	3.65E-06	3.65E-06	3.65E-06	3.65E-06	3.65E-06	3.65E-06
TOTAL	2.52E-04	5.84E-02	7.04E-02	5.31E-02	3.75E-02	3.31E-02	2.23E-02	1.37E-01

	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR-0.2
FISH	21.0	1.0	24.00	
DRINKING	730.0	1.0	12.00	
SHORELINE	12.0	1.0	0.00	
SWIMMING	12.0	1.0	0.00	
BOATING	12.0	1.0	0.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH								
AG 110M		9.68E-05	8.21E-05	7.10E-05	0.00E+00	4.87E-04	0.00E+00	1.56E-02
BA 140		7.41E-04	8.53E-07	6.48E-05	0.00E+00	8.74E-07	3.78E-06	6.53E-04
BE 7		2.54E-08	5.27E-08	3.77E-08	0.00E+00	1.68E-07	0.00E+00	4.28E-06
C 14		1.18E+00	2.17E-01	3.16E-01	1.68E+00	6.54E-01	1.68E+00	1.01E-01
CE 141		5.94E-08	3.68E-08	6.08E-09	0.00E+00	5.16E-08	0.00E+00	6.58E-05
CE 144		5.34E-06	2.05E-06	3.82E-07	0.00E+00	3.66E-06	0.00E+00	7.73E-04
CO 57		0.00E+00	8.20E-05	1.98E-04	0.00E+00	0.00E+00	0.00E+00	9.71E-04
CO 58		0.00E+00	2.41E-01	7.87E-01	0.00E+00	0.00E+00	0.00E+00	2.28E+00
CO 60		0.00E+00	3.48E-02	1.12E-01	0.00E+00	0.00E+00	0.00E+00	3.05E-01
CR 51		0.00E+00	0.00E+00	5.96E-04	1.89E-03	2.72E-04	4.20E-03	4.81E-02
CS 134		9.48E+00	2.07E+01	2.46E+01	0.00E+00	2.02E+01	1.72E+01	1.69E-01
CS 137		5.95E+01	7.46E+01	7.11E+01	0.00E+00	7.64E+01	6.51E+01	6.74E-01
FE 55		3.87E+00	2.45E+00	8.32E-01	0.00E+00	0.00E+00	1.06E+01	6.56E-01
FE 59		5.96E-03	1.28E-02	7.17E-03	0.00E+00	0.00E+00	2.77E-02	2.00E-02
H 3		0.00E+00	6.97E-01	1.01E+00	5.40E+00	2.10E+00	5.39E+00	3.26E-01
HF 181		4.35E-08	2.17E-07	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		2.37E-04	1.87E-04	8.92E-04	3.73E+00	1.21E-03	0.00E+00	1.38E-05
I 131		2.67E-02	3.50E-02	2.92E-02	8.89E+01	1.81E-01	0.00E+00	4.32E-03
I 132		2.68E-09	6.57E-09	3.34E-09	1.78E-06	3.15E-08	0.00E+00	5.76E-10
I 133		1.35E-04	2.15E-04	9.54E-05	2.45E-01	1.13E-03	0.00E+00	9.02E-05
LA 140		2.17E-06	1.00E-06	3.86E-07	0.00E+00	0.00E+00	0.00E+00	3.44E-02
LA 141		3.12E-10	8.87E-11	2.11E-11	0.00E+00	0.00E+00	0.00E+00	4.93E-06
MN 54		0.00E+00	8.36E-02	2.32E-02	0.00E+00	7.50E-02	0.00E+00	1.20E-01
MO 99		0.00E+00	5.93E-05	1.64E-05	0.00E+00	4.05E-04	0.00E+00	6.41E-05
NB 95		6.52E-02	3.33E-02	2.60E-02	0.00E+00	9.92E-02	0.00E+00	9.43E-01
NI 63		3.61E-01	2.30E-02	1.62E-02	0.00E+00	0.00E+00	0.00E+00	2.24E-03
P 32		1.30E+01	7.40E-01	6.69E-01	0.00E+00	0.00E+00	0.00E+00	6.25E-01
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		2.98E-05	0.00E+00	1.71E-05	0.00E+00	3.14E-04	0.00E+00	1.49E-03
RU 106		1.71E-04	0.00E+00	2.90E-05	0.00E+00	9.15E-04	0.00E+00	4.75E-03
SB 122		3.04E-06	5.46E-08	1.18E-06	3.03E-07	0.00E+00	1.12E-05	3.81E-04
SB 124		3.07E-03	5.33E-05	1.63E-03	5.29E-05	0.00E+00	1.70E-02	3.74E-02
SB 125		8.52E-03	8.73E-05	2.70E-03	6.15E-05	0.00E+00	4.65E-02	4.01E-02
SB 126		2.99E-05	5.58E-07	1.44E-05	1.30E-06	0.00E+00	1.30E-04	1.05E-03
SE 75		0.00E+00	4.53E-02	2.57E-02	0.00E+00	1.99E-01	0.00E+00	3.09E-03
SN 113		2.90E-01	7.34E-03	2.22E-02	3.36E-02	0.00E+00	0.00E+00	0.00E+00
SR 89		3.26E-01	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR 90		1.19E+01	0.00E+00	3.19E-01	0.00E+00	0.00E+00	0.00E+00	1.28E-01

VII-D-6 (CONT.)

TC 99M	4.50E-10	1.17E-09	2.16E-08	0.00E+00	5.34E-08	4.42E-09	3.22E-07
TE 132	1.02E-03	6.03E-04	8.24E-04	5.15E-03	1.75E-02	0.00E+00	1.33E-02
Y 90	8.44E-06	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	3.83E-02
ZN 65	2.32E-02	6.77E-02	4.45E-02	0.00E+00	1.36E-01	0.00E+00	1.89E-02
ZR 95	2.30E-05	6.78E-06	6.68E-06	0.00E+00	3.21E-05	0.00E+00	1.00E-02

DRINKING

AG 110M	8.46E-03	4.18E-03	2.53E-03	0.00E+00	8.83E-03	0.00E+00	1.30E+00
BA 140	3.82E-02	2.56E-05	1.36E-03	0.00E+00	9.36E-06	1.56E-05	3.20E-02
BE 7	2.56E-06	3.10E-06	1.55E-06	0.00E+00	3.52E-06	0.00E+00	4.11E-04
C 14	5.16E-02	5.50E-03	5.62E-03	2.93E-03	5.92E-03	5.68E-03	4.20E-03
CE 141	1.21E-05	4.35E-06	5.04E-07	0.00E+00	2.17E-06	0.00E+00	1.27E-02
CE 144	1.07E-03	2.39E-04	3.14E-05	0.00E+00	1.53E-04	0.00E+00	1.48E-01
CO 57	0.00E+00	1.92E-04	3.26E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-03
CO 58	0.00E+00	5.66E-01	1.30E+00	0.00E+00	0.00E+00	0.00E+00	8.75E+00
CO 60	0.00E+00	8.13E-02	1.83E-01	0.00E+00	0.00E+00	0.00E+00	1.17E+00
CR 51	0.00E+00	0.00E+00	2.47E-04	0.00E+00	5.74E-05	3.43E-04	4.64E-02
CS 134	9.52E-01	1.21E+00	1.01E+00	0.00E+00	4.21E-01	1.39E-01	1.61E-02
CS 137	5.97E+00	4.36E+00	2.92E+00	0.00E+00	1.59E+00	5.25E-01	6.43E-02
FE 55	7.77E+00	2.86E+00	6.82E-01	0.00E+00	0.00E+00	1.71E+00	1.25E+00
FE 59	1.21E-02	1.51E-02	5.92E-03	0.00E+00	0.00E+00	4.51E-03	3.84E-02
H 3	0.00E+00	9.05E+01	9.24E+01	4.81E+01	9.74E+01	9.66E+01	6.90E+01
HF 181	2.67E-06	7.75E-06	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	3.18E-03	1.46E-03	4.88E-03	1.99E-00	3.37E-03	0.00E+00	1.75E-04
I 131	3.73E-01	2.85E-01	1.67E-01	4.97E-01	5.25E-01	0.00E+00	5.73E-02
I 132	1.33E-06	1.90E-06	6.79E-07	3.54E-05	3.26E-06	0.00E+00	2.72E-07
I 133	2.69E-03	2.50E-03	7.77E-04	1.95E-01	4.69E-03	0.00E+00	1.71E-03
LA 140	2.14E-05	5.76E-06	1.56E-06	0.00E+00	0.00E+00	0.00E+00	3.23E-01
LA 141	2.07E-08	3.43E-09	5.73E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-04
MN 54	0.00E+00	2.44E-02	4.76E-03	0.00E+00	7.82E-03	0.00E+00	5.71E-02
MO 99	0.00E+00	7.85E-04	1.53E-04	0.00E+00	1.91E-03	0.00E+00	1.39E-03
NB 95	4.41E-04	1.31E-04	7.18E-05	0.00E+00	1.39E-04	0.00E+00	6.05E-01
NI 63	7.25E-01	2.68E-02	1.33E-02	0.00E+00	0.00E+00	0.00E+00	4.27E-03
P 32	2.67E-02	8.85E-04	5.62E-04	0.00E+00	0.00E+00	0.00E+00	1.22E-03
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	6.03E-04	0.00E+00	1.42E-04	0.00E+00	1.32E-03	0.00E+00	2.87E-02
RU 106	3.45E-03	0.00E+00	2.38E-04	0.00E+00	3.82E-03	0.00E+00	9.07E-02
SB 122	6.93E-04	7.25E-06	1.10E-04	2.76E-06	0.00E+00	2.05E-04	8.26E-02
SB 124	6.21E-01	6.26E-03	1.34E-01	4.27E-04	0.00E+00	2.75E-01	7.17E+00
SB 125	1.71E+00	1.02E-02	2.22E-01	4.93E-04	0.00E+00	7.51E-01	7.66E+00
SB 126	6.17E-03	6.70E-05	1.21E-03	1.07E-05	0.00E+00	2.15E-03	2.05E-01
SE 75	0.00E+00	3.12E-02	1.24E-02	0.00E+00	4.90E-02	0.00E+00	3.48E-03
SN 113	1.95E-02	2.87E-04	6.08E-04	9.02E-05	0.00E+00	0.00E+00	0.00E+00
SR 89	2.19E+00	0.00E+00	3.43E-02	0.00E+00	0.00E+00	0.00E+00	1.43E-01
SR 90	7.95E+01	0.00E+00	8.70E-01	0.00E+00	0.00E+00	0.00E+00	8.13E-01
TC 99M	2.40E-08	3.62E-08	4.71E-07	0.00E+00	5.92E-07	1.89E-08	1.63E-05
TE 132	5.67E-04	1.96E-04	1.88E-04	1.15E-04	2.03E-03	0.00E+00	7.06E-03
Y 90	7.71E-05	0.00E+00	1.13E-06	0.00E+00	0.00E+00	0.00E+00	3.33E-01
ZN 65	2.33E-03	3.96E-03	1.83E-03	0.00E+00	2.85E-03	0.00E+00	1.90E-03
ZR 95	1.41E-03	2.41E-04	1.67E-04	0.00E+00	4.07E-04	0.00E+00	5.83E-01

SHORELINE

AG 110M	3.12E+00	3.09E+00
BA 140	6.65E-04	6.72E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.94E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.84E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02

TABLE VII-D-6 (CONT.)

H	3	0.00E+00	0.00E+00
HF	181	0.00E+00	0.00E+00
I	129	4.13E-02	2.86E-02
I	131	2.87E-02	2.73E-02
I	132	5.24E-06	5.14E-06
I	133	1.24E-04	1.17E-04
LA	140	3.37E-03	3.43E-03
LA	141	2.75E-07	2.85E-07
MN	54	2.39E-01	2.35E-01
MO	99	2.62E-05	2.62E-05
NB	95	1.69E-01	1.66E-01
NI	63	0.00E+00	0.00E+00
P	32	0.00E+00	0.00E+00
PR	144	6.80E-08	6.83E-08
RU	103	6.09E-03	6.03E-03
RU	106	9.31E-03	8.96E-03
SB	122	0.00E+00	0.00E+00
SB	124	2.26E+00	2.26E+00
SB	125	3.76E+01	3.85E+01
SB	126	7.66E-03	7.88E-03
SE	75	0.00E+00	0.00E+00
SN	113	0.00E+00	0.00E+00
SR	89	2.64E-06	2.62E-05
SR	90	0.00E+00	0.00E+00
TC	99M	1.20E-06	1.21E-06
TE	132	1.83E-05	1.80E-05
Y	90	7.11E-07	6.95E-07
ZN	65	6.06E-03	6.09E-03
ZR	95	1.94E-01	1.94E-01

SWIMMING

AG	110M	5.02E+00
BA	140	1.83E-02
BE	7	0.00E+00
C	14	0.00E+00
CE	141	3.27E-03
CE	144	3.66E-03
CO	57	8.75E-03
CO	58	4.98E+01
CO	60	6.34E+00
CR	51	1.74E-01
CS	134	8.58E-01
CT	137	1.45E+00
FE	55	3.50E-03
FE	59	1.19E-01
H	3	0.00E+00
HF	181	0.00E+00
I	129	3.19E-04
I	131	1.41E+00
I	132	2.00E-02
I	133	5.25E-02
LA	140	8.36E-01
LA	141	5.29E-04
MN	54	2.91E-01
MO	99	3.52E-03
NB	95	1.94E+00
NI	63	0.00E+00
P	32	1.75E-05
PR	144	2.38E-03
RU	103	5.66E-02
RU	106	9.22E-03
SB	122	0.00E+00
SB	124	1.55E+01
SB	125	1.44E+01
SB	126	2.56E-01
SE	75	0.00E+00

TABLE VII-D-6 (CONT.)

SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

BOATING

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
PE 55	3.50E-03
PE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-D-7

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

TEENAGER DOSES

PATHWAY	DOSE (MREM PER YEAR INTAKE)							
	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		5.19E-02	5.59E-02	2.14E-02	6.37E-03	1.84E-02	8.26E-03	8.21E-02
DRINKING		7.29E-03	1.17E-02	1.11E-02	2.35E-02	1.06E-02	1.08E-02	1.46E-02
SHORELINE	1.41E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03
SWIMMING		4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.07E-05
BOATING		2.04E-05	2.04E-05	2.04E-05	2.04E-05	2.04E-05	2.04E-05	2.04E-05
TOTAL	1.41E-03	6.05E-02	6.89E-02	3.38E-02	3.11E-02	3.04E-02	2.04E-02	9.80E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR-0.2
FISH	16.0	1.0	24.00	
DRINKING	510.0	1.0	12.00	
SHORELINE	67.0	1.0	0.00	
SWIMMING	67.0	1.0	0.00	
BOATING	67.0	1.0	0.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH								
AG 110M		9.03E-05	7.92E-05	1.26E-04	0.00E+00	4.58E-04	0.00E+00	1.52E-02
BA 140		7.54E-04	8.57E-07	1.18E-04	0.00E+00	8.81E-07	3.90E-06	7.35E-04
BE 7		2.64E-08	5.50E-08	7.10E-08	0.00E+00	1.78E-07	0.00E+00	4.60E-06
C 14		1.23E+00	2.28E-01	5.95E-01	2.01E+00	6.92E-01	1.55E+00	1.55E-01
CE 141		6.14E-08	3.81E-08	1.14E-08	0.00E+00	5.43E-08	0.00E+00	7.41E-05
CE 144		5.54E-06	2.13E-06	7.20E-07	0.00E+00	3.85E-06	0.00E+00	8.80E-04
CO 57		0.00E+00	8.21E-05	3.59E-04	0.00E+00	0.00E+00	0.00E+00	1.04E-03
CO 58		0.00E+00	2.32E-01	1.39E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+00
CO 60		0.00E+00	3.37E-02	1.98E-01	0.00E+00	0.00E+00	0.00E+00	2.99E-01
CR 51		0.00E+00	0.00E+00	1.06E-03	1.99E-03	2.71E-04	3.95E-03	4.67E-02
CS 134		9.28E+00	2.03E+01	2.45E+01	0.00E+00	1.95E+01	1.67E+01	1.72E-01
CS 137		6.09E+01	7.51E+01	6.82E+01	0.00E+00	7.75E+01	6.73E+01	7.28E-01
FE 55		3.87E+00	2.55E+00	1.55E+00	0.00E+00	0.00E+00	1.09E+01	7.50E-01
FE 59		5.87E-03	1.27E-02	1.28E-02	0.00E+00	0.00E+00	2.71E-02	2.05E-02
H 3		0.00E+00	5.18E-01	1.35E+00	4.55E+00	1.57E+00	3.51E+00	3.53E-01
HF 181		4.53E-08	2.27E-07	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		2.46E-04	1.92E-04	8.36E-04	2.05E+00	1.04E-03	0.00E+00	1.53E-05
I 131		2.73E-02	3.55E-02	4.98E-02	9.11E+01	1.85E-01	0.00E+00	4.78E-03
I 132		2.68E-09	6.50E-09	6.08E-09	1.92E-06	3.10E-08	0.00E+00	1.93E-09
I 133		1.39E-04	2.19E-04	1.74E-04	2.68E-01	1.16E-03	0.00E+00	1.13E-04
LA 140		2.20E-06	1.00E-06	6.96E-07	0.00E+00	0.00E+00	0.00E+00	3.92E-02
LA 141		3.23E-10	9.23E-11	3.97E-11	0.00E+00	0.00E+00	0.00E+00	1.11E-05
MX 54		0.00E+00	7.95E-02	4.11E-02	0.00E+00	7.19E-02	0.00E+00	1.11E-01
MO 99		0.00E+00	6.10E-05	3.04E-05	0.00E+00	4.24E-04	0.00E+00	7.45E-05
NB 55		6.28E-02	3.23E-02	4.64E-02	0.00E+00	9.49E-02	0.00E+00	9.41E+01
NI 63		3.58E-01	2.35E-02	2.94E-02	0.00E+00	0.00E+00	0.00E+00	2.54E-03
P 32		1.35E+01	7.76E-01	1.27E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-01
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		2.99E-05	0.00E+00	3.09E-05	0.00E+00	2.96E-04	0.00E+00	1.58E-03
RU 106		1.78E-04	0.00E+00	5.43E-05	0.00E+00	9.65E-04	0.00E+00	5.39E-03
SB 122		3.15E-06	5.69E-08	2.22E-06	3.38E-07	0.00E+00	1.25E-05	4.29E-04
SB 124		3.09E-03	5.28E-05	2.92E-03	5.72E-05	0.00E+00	1.70E-02	3.94E-02
SB 125		8.59E-03	8.70E-05	4.86E-03	6.69E-05	0.00E+00	4.74E-02	4.22E-02
SB 126		3.01E-05	5.70E-07	2.61E-05	1.39E-06	0.00E+00	1.35E-04	1.12E-03
SE 75		0.00E+00	4.73E-02	4.87E-02	0.00E+00	2.11E-01	0.00E+00	3.32E-03
SN 113		3.02E-01	7.63E-03	4.19E-02	3.75E-02	0.00E+00	0.00E+00	0.00E+00
SR 89		3.39E-01	0.00E+00	2.35E-02	0.00E+00	0.00E+00	0.00E+00	2.55E-02
SR 90		1.01E+01	0.00E+00	4.90E-01	0.00E+00	0.00E+00	0.00E+00	1.46E-01

TABLE VII-D-7 (CONT.)

TC 99M	4.41E-10	1.14E-09	3.85E-08	0.00E+00	5.15E-08	4.29E-09	5.10E-07
TE 132	1.02E-03	6.02E-04	1.48E-03	5.58E-03	1.75E-02	0.00E+00	1.30E-02
Y 90	8.75E-06	0.00E+00	5.70E-07	0.00E+00	0.00E+00	0.00E+00	4.56E-02
ZN 65	2.01E-02	6.47E-02	7.87E-02	0.00E+00	1.26E-01	0.00E+00	1.87E-02
ZR 95	2.27E-05	6.65E-06	1.19E-05	0.00E+00	2.96E-05	0.00E+00	1.05E-02

DRINKING

AG 110M	8.92E-03	5.25E-03	3.37E-03	0.00E+00	1.10E-02	0.00E+00	1.18E+00
BA 140	4.39E-02	3.35E-05	1.86E-03	0.00E+00	1.25E-05	2.44E-05	3.38E-02
BE 7	3.02E-06	4.21E-06	2.20E-06	0.00E+00	4.94E-06	0.00E+00	4.14E-04
C 14	6.07E-02	7.55E-03	7.97E-03	3.77E-03	8.32E-03	8.17E-03	6.05E-03
CE 141	1.41E-05	5.85E-06	7.10E-07	0.00E+00	3.04E-06	0.00E+00	1.34E-02
CE 144	1.26E-03	3.24E-04	4.44E-05	0.00E+00	2.13E-04	0.00E+00	1.58E-01
CO 57	0.00E+00	2.50E-04	4.43E-04	0.00E+00	0.00E+00	0.00E+00	3.74E-03
CO 58	0.00E+00	7.08E-01	1.72E+00	0.00E+00	0.00E+00	0.00E+00	7.82E+00
CO 60	0.00E+00	1.02E-01	2.44E-01	0.00E+00	0.00E+00	0.00E+00	1.07E+00
CR 51	0.00E+00	0.00E+00	3.32E-04	8.72E-05	7.59E-05	4.86E-04	4.23E-02
CS 134	1.05E+00	1.54E+00	7.55E-01	0.00E+00	5.40E-01	2.03E-01	1.54E-02
CS 137	6.90E+00	5.71E+00	2.10E+00	0.00E+00	2.14E+00	8.18E-01	6.51E-02
FE 55	8.78E+00	3.87E+00	9.54E-01	0.00E+00	0.00E+00	2.66E+00	1.34E+00
FE 59	1.34E-02	1.95E-02	7.94E-03	0.00E+00	0.00E+00	6.65E-03	3.69E-02
H 3	0.00E+00	8.75E+01	9.24E+01	4.37E+01	9.65E+01	9.47E+01	7.01E+01
HF 181	3.14E-06	1.05E-05	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	3.72E-03	1.95E-03	3.43E-03	1.18E+00	3.84E-03	0.00E+00	1.82E-04
I 131	4.32E-01	3.76E-01	2.13E-01	5.48E+01	7.14E-01	0.00E+00	5.95E-02
I 132	1.51E-06	2.45E-06	9.29E-07	4.13E-05	4.26E-06	0.00E+00	8.55E-07
I 133	3.13E-03	3.30E-03	1.06E-03	2.31E-01	6.39E-03	0.00E+00	2.00E-03
LA 140	2.45E-05	7.50E-06	2.11E-06	0.00E+00	0.00E+00	0.00E+00	3.45E-01
LA 141	2.43E-08	4.65E-09	8.09E-10	0.00E+00	0.00E+00	0.00E+00	6.59E-04
MN 54	0.00E+00	3.03E-02	6.33E-03	0.00E+00	9.95E-03	0.00E+00	4.97E-02
MO 99	0.00E+00	1.05E-03	2.12E-04	0.00E+00	2.66E-03	0.00E+00	1.51E-03
NB 95	4.79E-04	1.65E-04	9.61E-05	0.00E+00	1.77E-04	0.00E+00	5.67E-01
NI 63	8.12E-01	3.57E-02	1.81E-02	0.00E+00	0.00E+00	0.00E+00	4.55E-03
P 32	3.14E-02	1.21E-03	7.99E-04	0.00E+00	0.00E+00	0.00E+00	1.32E-03
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	6.84E-04	0.00E+00	1.92E-04	0.00E+00	1.65E-03	0.00E+00	2.85E-02
RU 106	4.04E-03	0.00E+00	3.34E-04	0.00E+00	5.34E-03	0.00E+00	9.66E-02
SB 122	8.13E-04	9.84E-06	1.56E-04	3.32E-06	0.00E+00	3.45E-04	8.73E-02
SB 124	7.06E-01	8.09E-03	1.81E-01	4.98E-04	0.00E+00	4.15E-01	7.09E+00
SB 125	1.95E+00	1.32E-02	2.99E-01	5.79E-04	0.00E+00	1.15E+00	7.56E+00
SB 126	7.01E-03	8.92E-05	1.65E-03	1.23E-05	0.00E+00	3.39E-03	2.07E-01
SE 75	0.00E+00	4.25E-02	1.77E-02	0.00E+00	6.87E-02	0.00E+00	3.50E-03
SN 113	2.29E-02	3.88E-04	8.63E-04	1.08E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.58E+00	0.00E+00	4.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR 90	7.66E+01	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-01
TC 99M	2.65E-08	4.61E-08	6.30E-07	0.00E+00	7.57E-07	2.77E-08	8.72E-01
TE 132	6.46E-04	2.55E-04	2.53E-04	1.34E-04	2.69E-03	0.00E+00	2.42E-05
Y 90	9.04E-05	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	6.46E-03
ZN 65	2.28E-03	4.93E-03	2.43E-03	0.00E+00	3.49E-03	0.00E+00	3.71E-01
ZR 95	1.57E-03	3.08E-04	2.24E-04	0.00E+00	5.00E-04	0.00E+00	1.67E-03

SHORELINE

AG 110M	3.12E+00	3.09E+00
BA 140	6.65E-04	6.72E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.94E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.84E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02

TABLE VII-D-7 (CONT.)

H	3	0.00E+00	0.00E+00
HF	181	0.00E+00	0.00E+00
I	129	4.13E-02	2.86E-02
I	131	2.87E-02	2.73E-02
I	132	5.24E-06	5.14E-06
I	133	1.24E-04	1.17E-04
LA	140	3.37E-03	3.43E-03
LA	141	2.76E-07	2.85E-07
MN	54	2.39E-01	2.35E-01
MO	99	2.62E-05	2.62E-05
NB	95	1.69E-01	1.66E-01
NI	63	0.00E+00	0.00E+00
P	32	0.00E+00	0.00E+00
PR	144	6.80E-08	6.83E-08
RU	103	6.09E-03	6.03E-03
RU	106	9.31E-03	8.96E-03
SB	122	0.00E+00	0.00E+00
SB	124	2.26E+00	2.26E+00
SB	125	3.76E+01	3.85E+01
SB	126	7.66E-03	7.88E-03
SE	75	0.00E+00	0.00E+00
SN	113	0.00E+00	0.00E+00
SR	89	2.64E-06	2.62E-06
SR	90	0.00E+00	0.00E+00
TC	99M	1.20E-06	1.21E-06
TE	132	1.83E-05	1.80E-05
Y	90	7.11E-07	6.95E-07
ZN	65	6.06E-03	6.09E-03
ZR	95	1.94E-01	1.94E-01

SWIMMING

AG	110M	5.02E+00
BA	140	1.83E-02
BE	7	0.00E+00
C	14	0.00E+00
CE	141	3.27E-03
CE	144	3.66E-03
CO	57	8.75E-03
CO	58	4.98E+01
CO	60	6.34E+00
CR	51	1.74E-01
CS	134	8.58E-01
CS	137	1.45E+00
FE	55	3.50E-03
FE	59	1.19E-01
H	3	0.00E+00
HF	181	0.00E+00
I	129	3.19E-04
I	131	1.41E+00
I	132	2.08E-02
I	133	5.25E-02
LA	140	8.36E-01
LA	141	5.29E-04
MN	54	2.91E-01
MO	99	3.52E-03
NB	95	1.94E+00
NI	63	0.00E+00
P	32	1.75E-05
PR	144	2.33E-03
RU	103	5.66E-02
RU	106	9.22E-03
SB	122	0.00E+00
SB	124	1.55E+01
SB	125	1.44E+01
SB	126	2.56E-01
SE	75	0.00E+00

TABLE VII-D-7 (CONT.)

SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

BOATING

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HP 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-D-8

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

CHILD DOSES

DOSE (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		6.45E-02	5.01E-02	9.38E-03	6.48E-03	1.59E-02	5.72E-03	2.98E-02
DRINKING		1.91E-02	2.28E-02	2.14E-02	5.10E-02	2.04E-02	2.08E-02	2.35E-02
SHORELINE	2.94E-04	2.54E-04	2.54E-04	2.54E-04	2.54E-04	2.54E-04	2.54E-04	2.54E-04
SWIMMING		8.51E-06	8.51E-06	8.51E-06	8.51E-06	8.51E-06	8.51E-06	8.51E-06
BOATING		4.26E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06
TOTAL	2.94E-04	8.39E-02	7.32E-02	3.10E-02	5.77E-02	3.66E-02	2.78E-02	5.35E-02

	USAGE (KG/YR, HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR-0.2
FISH	6.9	1.0	24.00	
DRINKING	510.0	1.0	12.00	
SHORELINE	14.0	1.0	0.00	
SWIMMING	14.0	1.0	0.00	
BOATING	14.0	1.0	0.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH								
AG 110M		8.24E-05	7.16E-05	3.06E-04	0.00E+00	4.21E-04	0.00E+00	1.43E-02
BA 140		7.66E-04	8.64E-07	3.07E-04	0.00E+00	8.87E-07	3.84E-06	8.41E-04
BE 7		2.74E-08	5.99E-08	2.09E-07	0.00E+00	1.87E-07	0.00E+00	5.68E-06
C 14		1.27E+00	3.28E-01	1.75E+00	2.53E+00	1.03E+00	2.44E+00	5.51E-01
CE 141		6.36E-08	4.09E-08	3.24E-08	0.00E+00	5.65E-08	0.00E+00	8.58E-05
CE 144		5.74E-06	2.32E-06	2.11E-06	0.00E+00	4.05E-06	0.00E+00	1.02E-03
CO 57		0.00E+00	8.19E-05	8.85E-04	0.00E+00	0.00E+00	0.00E+00	1.13E-03
CO 58		0.00E+00	2.07E-01	3.38E+00	0.00E+00	0.00E+00	0.00E+00	2.03E+00
CO 60		0.00E+00	3.05E-02	4.80E-01	0.00E+00	0.00E+00	0.00E+00	2.85E-01
CR 51		0.00E+00	0.00E+00	2.59E-03	2.08E-03	2.33E-04	3.67E-03	4.34E-02
CS 134		9.00E+00	1.90E+01	2.14E+01	0.00E+00	1.86E+01	1.58E+01	1.73E-01
CS 137		6.16E+01	7.60E+01	5.99E+01	0.00E+00	7.82E+01	6.64E+01	8.01E-01
FE 55		4.09E+00	2.79E+00	4.62E+00	0.00E+00	0.00E+00	1.18E+01	8.70E-01
FE 59		5.72E-03	1.19E-02	3.17E-02	0.00E+00	0.00E+00	2.58E-02	2.09E-02
H 3		0.00E+00	4.79E-01	2.56E+00	3.70E+00	1.51E+00	3.57E+00	8.06E-01
HF 181		4.70E-08	2.47E-07	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		2.55E-04	2.01E-04	9.60E-04	1.02E+00	1.07E-03	0.00E+00	1.70E-05
I 131		2.79E-02	3.61E-02	1.10E-01	9.24E+01	1.87E-01	0.00E+00	5.41E-03
I 132		2.66E-09	6.30E-09	1.55E-08	2.26E-06	3.04E-08	0.00E+00	1.25E-08
I 133		1.42E-04	2.26E-04	4.56E-04	3.25E-01	1.19E-03	0.00E+00	1.53E-04
LA 140		2.21E-06	9.97E-07	1.79E-06	0.00E+00	0.00E+00	0.00E+00	4.68E-02
LA 141		3.35E-10	1.01E-10	1.17E-10	0.00E+00	0.00E+00	0.00E+00	3.77E-05
MN 54		0.00E+00	6.94E-02	9.87E-02	0.00E+00	6.14E-02	0.00E+00	9.81E-02
MO 99		0.00E+00	6.49E-05	8.56E-05	0.00E+00	4.37E-04	0.00E+00	9.03E-05
NE 95		5.96E-02	2.99E-02	1.14E-01	0.00E+00	8.86E-02	0.00E+00	9.30E+01
NI 63		3.78E-01	2.60E-02	8.83E-02	0.00E+00	0.00E+00	0.00E+00	2.95E-03
P 32		1.40E+01	8.44E-01	3.71E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-01
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		2.97E-05	0.00E+00	7.86E-05	0.00E+00	3.04E-04	0.00E+00	1.67E-03
RU 106		1.84E-04	0.00E+00	1.58E-04	0.00E+00	1.01E-03	0.00E+00	6.21E-03
SB 122		3.27E-06	6.19E-08	6.54E-06	4.31E-07	0.00E+00	1.28E-05	5.58E-04
SB 124		3.08E-03	5.14E-05	7.41E-03	6.76E-05	0.00E+00	1.64E-02	4.17E-02
SB 125		8.60E-03	8.54E-05	1.24E-02	7.93E-05	0.00E+00	4.60E-02	4.45E-02
SB 126		2.89E-05	5.69E-07	7.13E-05	1.69E-06	0.00E+00	1.32E-04	1.26E-03
SE 75		0.00E+00	5.15E-02	1.43E-01	0.00E+00	2.22E-01	0.00E+00	4.07E-03
SN 113		3.13E-01	8.33E-03	1.24E-01	4.75E-02	0.00E+00	0.00E+00	0.00E+00
SR 89		3.52E-01	0.00E+00	6.92E-02	0.00E+00	0.00E+00	0.00E+00	2.96E-02
SR 90		8.82E+00	0.00E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-01

TABLE VII-D-8 (CONT.)

TC 99M	4.25E-10	1.07E-09	9.50E-08	0.00E+00	4.92E-08	4.06E-09	1.03E-06
TE 132	1.03E-03	5.86E-04	3.78E-03	6.60E-03	1.72E-02	0.00E+00	9.94E-03
Y 90	9.10E-06	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	5.62E-02
ZN 65	1.66E-02	5.69E-02	1.89E-01	0.00E+00	1.13E-01	0.00E+00	1.68E-02
ZR 95	2.22E-05	6.29E-06	2.99E-05	0.00E+00	2.84E-05	0.00E+00	1.10E-02

DRINKING

AG 110M	8.96E-03	5.06E-03	4.32E-03	0.00E+00	1.05E-02	0.00E+00	5.85E-01
BA 140	4.91E-02	3.60E-05	2.56E-03	0.00E+00	1.31E-05	2.35E-05	2.02E-02
BE 7	3.44E-06	4.90E-06	3.42E-06	0.00E+00	5.41E-06	0.00E+00	2.68E-04
C 14	6.91E-02	1.16E-02	1.23E-02	5.17E-03	1.29E-02	1.27E-02	1.12E-02
CE 141	1.61E-05	6.70E-06	1.06E-06	0.00E+00	3.28E-06	0.00E+00	8.12E-03
CE 144	1.44E-03	3.77E-04	6.85E-05	0.00E+00	2.33E-04	0.00E+00	9.55E-02
CO 57	0.00E+00	2.66E-04	5.76E-04	0.00E+00	0.00E+00	0.00E+00	2.12E-03
CO 58	0.00E+00	6.74E-01	2.20E+00	0.00E+00	0.00E+00	0.00E+00	3.82E+00
CO 60	0.00E+00	9.91E-02	3.12E-01	0.00E+00	0.00E+00	0.00E+00	5.33E-01
CR 51	0.00E+00	0.00E+00	4.26E-04	9.92E-05	6.75E-05	4.44E-04	2.06E-02
CS 134	1.12E+00	1.54E+00	3.48E-01	0.00E+00	5.34E-01	1.88E-01	8.09E-03
CS 137	7.70E+00	6.17E+00	9.72E-01	0.00E+00	2.24E+00	7.93E-01	3.75E-02
FE 55	1.02E+01	4.53E+00	1.50E+00	0.00E+00	0.00E+00	2.81E+00	8.15E-01
FE 59	1.44E-02	1.95E-02	1.04E-02	0.00E+00	0.00E+00	6.20E-03	1.97E-02
H 3	0.00E+00	8.64E+01	9.23E+01	3.87E+01	9.63E+01	9.47E+01	8.39E+01
HF 181	3.58E-06	1.23E-05	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	4.24E-03	2.18E-03	2.08E-03	6.38E-01	4.10E-03	0.00E+00	1.06E-04
I 131	4.85E-01	4.08E-01	2.48E-01	6.04E+01	7.47E-01	0.00E+00	3.53E-02
I 132	1.65E-06	2.54E-06	1.25E-06	5.26E-05	4.33E-06	0.00E+00	2.90E-06
I 133	3.52E-03	3.65E-03	1.47E-03	3.03E-01	6.78E-03	0.00E+00	1.43E-03
LA 140	2.72E-05	7.96E-06	2.86E-06	0.00E+00	0.00E+00	0.00E+00	2.15E-01
LA 141	2.77E-08	5.41E-09	1.25E-09	0.00E+00	0.00E+00	0.00E+00	1.17E-03
MN 54	0.00E+00	2.82E-02	8.02E-03	0.00E+00	8.82E-03	0.00E+00	2.30E-02
MO 99	0.00E+00	1.19E-03	3.16E-04	0.00E+00	2.84E-03	0.00E+00	9.59E-04
NB 95	5.01E-04	1.63E-04	1.25E-04	0.00E+00	1.71E-04	0.00E+00	2.93E-01
NI 63	9.43E-01	4.23E-02	2.87E-02	0.00E+00	0.00E+00	0.00E+00	2.76E-03
P 32	3.58E-02	1.40E-03	1.24E-03	0.00E+00	0.00E+00	0.00E+00	8.05E-04
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	7.49E-04	0.00E+00	2.57E-04	0.00E+00	1.76E-03	0.00E+00	1.57E-02
RU 106	4.61E-03	0.00E+00	5.14E-04	0.00E+00	5.81E-03	0.00E+00	5.82E-02
SB 122	9.29E-04	1.14E-05	2.41E-04	4.60E-06	0.00E+00	3.47E-04	5.94E-02
SB 124	7.73E-01	8.39E-03	2.42E-01	6.39E-04	0.00E+00	3.94E-01	3.93E+00
SB 125	2.15E+00	1.39E-02	4.03E-01	7.45E-04	0.00E+00	1.10E+00	4.17E+00
SB 126	7.42E-03	9.49E-05	2.38E-03	1.63E-05	0.00E+00	3.25E-03	1.21E-01
SE 75	0.00E+00	4.93E-02	2.74E-02	0.00E+00	7.50E-02	0.00E+00	2.25E-03
SN 113	2.62E-02	4.52E-04	1.34E-03	1.49E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.95E+00	0.00E+00	7.54E-02	0.00E+00	0.00E+00	0.00E+00	9.30E-02
SR 90	7.34E+01	0.00E+00	1.32E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-01
TC 99M	2.82E-08	4.63E-08	8.19E-07	0.00E+00	7.50E-07	2.58E-08	2.56E-05
TE 132	7.14E-04	2.65E-04	3.41E-04	1.72E-04	2.74E-04	0.00E+00	2.59E-03
Y 90	1.04E-04	0.00E+00	2.48E-06	0.00E+00	0.00E+00	0.00E+00	2.40E-01
ZN 65	2.07E-03	4.62E-03	3.07E-03	0.00E+00	3.25E-03	0.00E+00	7.89E-04
ZR 95	1.69E-03	3.11E-04	2.96E-04	0.00E+00	4.96E-04	0.00E+00	3.15E-01

SHORELINE

AG 110M	3.12E+00	3.09E+00
BA 140	6.65E-04	6.72E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.94E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.84E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02

TABLE VII-D-8 (CONT.)

H	3	0.00E+00	0.00E+00
HF	181	0.00E+00	0.00E+00
I	129	4.13E-02	2.86E-02
I	131	2.87E-02	2.73E-02
I	132	5.24E-06	5.14E-06
I	133	1.24E-04	1.17E-04
LA	140	3.37E-03	3.43E-03
LA	141	2.76E-07	2.85E-07
MN	54	2.39E-01	2.35E-01
MO	99	2.62E-05	2.62E-05
NB	95	1.69E-01	1.66E-01
NI	63	0.00E+00	0.00E+00
P	32	0.00E+00	0.00E+00
PR	144	6.80E-08	6.83E-08
RU	103	6.09E-03	6.03E-03
RU	106	9.31E-03	8.96E-03
SB	122	0.00E+00	0.00E+00
SB	124	2.26E+00	2.26E+00
SB	125	3.76E+01	3.85E+01
SB	126	7.66E-03	7.88E-03
SE	75	0.00E+00	0.00E+00
SN	113	0.00E+00	0.00E+00
SS	89	2.64E-06	2.62E-06
SR	97	0.00E+00	0.00E+00
TC	99M	1.20E-06	1.21E-06
TE	132	1.83E-05	1.80E-05
Y	90	7.11E-07	6.95E-07
ZN	65	6.06E-03	6.09E-03
ZR	95	1.94E-01	1.94E-01

SWIMMING

AG	110M	5.02E+00
BA	140	1.83E-02
BE	7	0.00E+00
C	14	0.00E+00
CE	141	3.27E-03
CE	144	3.66E-03
CO	57	8.75E-03
CO	58	4.98E+01
CO	60	6.34E+00
CR	51	1.74E-01
CS	134	8.58E-01
CS	137	1.45E+00
FE	55	3.50E-03
FE	59	1.19E-01
H	3	0.00E+00
HF	181	0.00E+00
I	129	3.19E-04
I	131	1.41E+00
I	132	2.08E-02
I	133	5.25E-02
LA	140	8.36E-01
LA	141	5.29E-04
MN	54	2.91E-01
MO	99	3.52E-03
NB	95	1.94E+00
NI	63	0.00E+00
P	32	1.75E-05
PR	144	2.38E-03
RU	103	5.66E-02
RU	106	9.22E-03
SB	122	0.00E+00
SB	124	1.55E+01
SB	125	1.44E+01
SB	126	2.56E-01
SE	75	0.00E+00

TABLE VII-D-8 (CONT.)

SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

BOATING

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.58E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.19E-04
I 131	1.41E+00
I 132	2.08E-02
I 133	5.25E-02
LA 140	8.36E-01
LA 141	5.29E-04
MN 54	2.91E-01
MO 99	3.52E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	2.38E-03
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.53E-05
TC 99M	1.80E-03
TE 132	1.94E-03
Y 90	2.29E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-D-9

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

I N F A N T D O S E S

	DOSE (MREM PER YEAR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DRINKING		1.49E-02	2.30E-02	2.08E-02	6.85E-02	2.01E-02	2.04E-02	2.16E-02
SHORELINE	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	1.49E-02	2.30E-02	2.08E-02	6.85E-02	2.01E-02	2.04E-02	2.16E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR-0.2
FISH	0.0	1.0	24.00	
DRINKING	330.0	1.0	12.00	

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING								
AG 110M		1.37E-02	6.50E-03	4.74E-03	0.00E+00	1.06E-02	0.00E+00	3.58E-01
BA 140		8.35E-02	5.44E-05	3.09E-03	0.00E+00	1.47E-05	3.75E-05	1.42E-02
BE 7		5.47E-06	7.43E-06	4.42E-06	0.00E+00	6.02E-06	0.00E+00	1.86E-04
C 14		1.12E-01	1.55E-02	1.71E-02	5.21E-03	1.77E-02	1.74E-02	1.65E-02
CE 141		2.63E-05	1.05E-05	1.36E-06	0.00E+00	3.67E-06	0.00E+00	5.73E-03
CE 144		1.70E-03	4.53E-04	6.85E-05	0.00E+00	2.09E-04	0.00E+00	6.75E-02
CO 57		0.00E+00	3.99E-04	7.16E-04	0.00E+00	0.00E+00	0.00E+00	1.44E-03
CO 58		0.00E+00	8.67E-01	2.39E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+00
CO 60		0.00E+00	1.30E-01	3.39E-01	0.00E+00	0.00E+00	0.00E+00	3.29E-01
CR 51		0.00E+00	0.00E+00	4.49E-04	8.89E-05	6.61E-05	5.80E-04	1.26E-02
CS 134		1.50E+00	1.82E+00	2.03E-01	0.00E+00	5.34E-01	2.15E-01	5.24E-03
CS 137		1.02E+01	7.74E+00	6.05E-01	0.00E+00	2.37E+00	9.44E-01	2.57E-02
FE 55		1.02E+01	4.29E+00	1.26E+00	0.00E+00	0.00E+00	2.35E+00	5.78E-01
FE 59		2.22E-02	2.53E-02	1.10E-02	0.00E+00	0.00E+00	8.38E-03	1.28E-02
H 3		0.00E+00	8.43E+01	9.30E+01	2.82E+01	9.61E+01	9.46E+01	8.95E+01
HF 181		5.78E-06	1.89E-05	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129		7.22E-03	3.48E-03	2.81E-03	7.48E-01	4.70E-03	0.00E+00	7.39E-05
I 131		8.37E-01	6.42E-01	3.11E-01	7.07E-01	8.55E-01	0.00E+00	2.43E-02
I 132		2.83E-06	3.74E-06	1.47E-06	5.87E-05	4.76E-06	0.00E+00	3.21E-06
I 133		6.15E-03	5.83E-03	1.88E-03	3.55E-01	7.82E-03	0.00E+00	1.05E-03
LA 140		4.70E-05	1.21E-05	3.42E-06	0.00E+00	0.00E+00	0.00E+00	1.50E-01
LA 141		4.87E-08	9.19E-09	1.77E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-03
MN 54		0.00E+00	3.37E-02	8.43E-03	0.00E+00	8.52E-03	0.00E+00	1.31E-02
MO 99		0.00E+00	1.96E-03	4.22E-04	0.00E+00	3.34E-03	0.00E+00	6.86E-04
NB 95		7.73E-04	2.07E-04	1.32E-04	0.00E+00	1.69E-04	0.00E+00	1.86E-01
NI 63		9.19E-01	3.70E-02	2.29E-02	0.00E+00	0.00E+00	0.00E+00	1.95E-03
P 32		6.10E-02	2.34E-03	1.70E-03	0.00E+00	0.00E+00	0.00E+00	5.71E-04
PR 144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103		1.25E-03	0.00E+00	3.01E-04	0.00E+00	1.94E-03	0.00E+00	1.05E-02
RU 106		7.84E-03	0.00E+00	7.03E-04	0.00E+00	6.88E-03	0.00E+00	4.12E-02
SB 122		1.62E-03	1.94E-05	3.40E-04	5.50E-06	0.00E+00	6.20E-04	4.23E-02
SB 124		1.23E+00	1.18E-02	2.74E-01	7.13E-04	0.00E+00	5.64E-01	2.63E+00
SB 125		3.05E+00	1.92E-02	4.51E-01	8.33E-04	0.00E+00	1.29E+00	2.81E+00
SB 126		1.12E-02	1.43E-04	4.91E-03	1.88E-05	0.00E+00	5.16E-03	8.04E-02
SE 75		0.00E+00	8.00E-02	3.79E-02	0.00E+00	8.82E-02	0.00E+00	1.57E-03
SN 113		4.09E-02	6.87E-04	1.79E-03	1.61E-04	0.00E+00	0.00E+00	0.00E+00
SR 89		4.64E+00	0.00E+00	9.57E-02	0.00E+00	0.00E+00	0.00E+00	6.60E-02
SR 90		6.71E+01	0.00E+00	9.77E-01	0.00E+00	0.00E+00	0.00E+00	3.78E-01
TC 99M		4.85E-08	6.51E-08	9.25E-07	0.00E+00	7.98E-07	3.82E-08	2.01E-05
TE 132		1.22E-03	3.92E-04	4.04E-04	1.94E-04	2.79E-03	0.00E+00	1.54E-03
Y 90		1.81E-04	0.00E+00	3.48E-06	0.00E+00	0.00E+00	0.00E+00	1.73E-01
ZN 65		2.30E-03	5.14E-03	2.61E-03	0.00E+00	2.84E-03	0.00E+00	4.61E-03
ZR 95		2.48E-03	3.94E-04	3.08E-04	0.00E+00	4.84E-04	0.00E+00	2.08E-01

TABLE VII-E-1

* * * FISH CONSUMPTION POPULATION DOSES * * *

PERSON-REM

SPORT HARVEST

-----DOSE (PERSON-REM)-----									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	6.10E+04	1.90E-02	2.14E-02	1.47E-02	1.77E-03	7.11E-03	2.78E-03	4.10E-02
FISH	TEENAGER	7.12E+03	3.05E-03	3.40E-03	1.30E-03	2.44E-04	1.12E-03	5.02E-04	4.46E-03
FISH	CHILD	4.93E+03	6.08E-03	4.88E-03	9.05E-04	3.94E-04	1.55E-03	6.57E-04	2.59E-03
FISH	TOTAL	7.30E+04	2.82E-02	2.97E-02	1.69E-02	2.41E-03	9.78E-03	3.97E-03	4.81E-02

LOCATION DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 1.68E+02 HR POPULATION=1.24E+04
7.30E+00 7.30E+04 1.59E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) ADULT=6.90E+00 TEEN=5.20E+00 CHILD=2.20E+00

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

AGE GROUP	ISOTOPE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT	AG 110M	9.86E-05	8.11E-05	7.01E-05	0.00E+00	4.80E-04	0.00E+00	1.73E-02
	BA 140	5.53E-04	6.18E-07	4.69E-05	0.00E+00	6.32E-07	2.73E-06	5.29E-04
	BE 7	2.43E-08	4.90E-08	3.50E-08	0.00E+00	1.56E-07	0.00E+00	4.45E-06
	C 14	1.22E+00	2.18E-01	3.17E-01	2.63E+00	6.55E-01	1.68E+00	1.14E-01
	CE 141	5.41E-08	3.25E-08	5.37E-09	0.00E+00	4.55E-08	0.00E+00	6.49E-05
	CE 144	5.45E-06	2.02E-06	3.78E-07	0.00E+00	3.61E-06	0.00E+00	8.55E-04
	CO 57	0.00E+00	8.10E-05	1.96E-04	0.00E+00	0.00E+00	0.00E+00	1.07E-03
	CO 58	0.00E+00	2.28E-01	7.45E-01	0.00E+00	0.00E+00	0.00E+00	2.42E+00
	CO 60	0.00E+00	3.49E-02	1.12E-01	0.00E+00	0.00E+00	0.00E+00	3.42E-01
	CR 51	0.00E+00	0.00E+00	5.14E-04	2.56E-03	2.34E-04	3.62E-03	4.64E-02
	CS 134	9.76E+00	2.06E+01	2.46E+01	0.00E+00	2.01E+01	1.71E+01	1.89E-01
	CS 137	6.16E+01	7.49E+01	7.14E+01	0.00E+00	7.65E+01	6.52E+01	7.57E-01
	FE 55	3.99E+00	2.45E+00	8.32E-01	0.00E+00	0.00E+00	1.05E+01	7.34E-01
	FE 59	5.62E-03	1.17E-02	6.55E-03	0.00E+00	0.00E+00	2.53E-02	2.04E-02
	H 3	0.00E+00	6.99E-01	1.02E+00	8.47E+00	2.11E+00	5.40E+00	3.65E-01
	HF 181	4.08E-08	1.98E-07	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	I 129	2.46E-04	1.88E-04	8.96E-04	5.85E+00	1.22E-03	0.00E+00	1.55E-05
	I 131	1.65E-02	2.09E-02	1.75E-02	8.30E+01	1.08E-01	0.00E+00	2.88E-03
	I 132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	I 133	1.13E-06	1.75E-06	7.75E-07	3.11E-03	9.17E-06	0.00E+00	8.19E-07
	LA 140	1.86E-07	8.35E-08	3.21E-08	0.00E+00	0.00E+00	0.00E+00	3.20E-03
	LA 141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MN 54	0.00E+00	8.23E-02	2.30E-02	0.00E+00	7.42E-02	0.00E+00	1.32E-01
	MO 99	0.00E+00	1.30E-05	3.60E-06	0.00E+00	8.86E-05	0.00E+00	1.57E-05
	NB 95	6.00E-02	2.97E-02	2.32E-02	0.00E+00	8.83E-02	0.00E+00	9.40E+01
	NI 63	3.74E-01	2.31E-02	1.62E-02	0.00E+00	0.00E+00	0.00E+00	2.51E-03
	P 32	1.00E+01	5.55E-01	5.02E-01	0.00E+00	0.00E+00	0.00E+00	5.24E-01
	PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RU 103	2.77E-05	0.00E+00	1.55E-05	0.00E+00	2.83E-04	0.00E+00	1.50E-03
	RU 106	1.76E-04	0.00E+00	2.87E-05	0.00E+00	9.07E-04	0.00E+00	5.28E-03
	SB 122	6.70E-07	1.17E-08	2.52E-07	1.01E-07	0.00E+00	2.39E-06	9.11E-05
	SB 124	2.97E-03	4.99E-05	1.52E-03	7.75E-05	0.00E+00	1.59E-02	3.91E-02
	SB 125	8.78E-03	8.72E-05	2.70E-03	9.61E-05	0.00E+00	4.64E-02	4.49E-02
	SB 126	2.21E-05	4.00E-07	1.03E-05	1.45E-06	0.00E+00	9.29E-05	8.38E-04
	SE 75	0.00E+00	4.40E-02	2.49E-02	0.00E+00	1.93E-01	0.00E+00	3.35E-03
	SN 113	2.90E-01	7.11E-03	2.15E-02	5.09E-02	0.00E+00	0.00E+00	0.00E+00
	SR 89	3.10E-01	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	2.31E-02
	SR 90	1.23E+01	0.00E+00	3.20E-01	0.00E+00	0.00E+00	0.00E+00	1.44E-01
	TC 99M	2.70E-17	6.77E-17	1.26E-15	0.00E+00	3.10E-15	2.56E-16	2.09E-14
	TE 132	2.92E-04	1.68E-04	2.30E-04	2.25E-03	4.87E-03	0.00E+00	4.15E-03
	Y 90	1.83E-06	0.00E+00	6.36E-08	0.00E+00	0.00E+00	0.00E+00	9.02E-03
	ZN 65	2.36E-02	6.68E-02	4.39E-02	0.00E+00	1.34E-01	0.00E+00	2.20E-02
	ZR 95	2.24E-05	6.38E-06	6.28E-06	0.00E+00	3.01E-05	0.00E+00	1.06E-02

TABLE VII-E-1 (CONT.)

TEENAGER

AG 110M	9.21E-05	7.82E-05	1.24E-04	0.00E+00	4.52E-04	0.00E+00	1.67E-02
BA 140	5.64E-04	6.21E-07	8.53E-05	0.00E+00	6.37E-07	2.82E-06	5.95E-04
BE 7	2.53E-08	5.10E-08	6.60E-08	0.00E+00	1.65E-07	0.00E+00	4.78E-06
C 14	1.28E+00	2.29E-01	5.99E-01	3.19E+00	6.94E-01	1.55E+00	1.75E-01
CE 141	5.60E-08	3.36E-08	1.01E-08	0.00E+00	4.79E-08	0.00E+00	7.32E-05
CE 144	5.66E-06	2.10E-06	7.14E-07	0.00E+00	3.81E-06	0.00E+00	9.74E-04
CO 57	0.00E+00	8.11E-05	3.56E-04	0.00E+00	0.00E+00	0.00E+00	1.15E-03
CO 58	0.00E+00	2.19E-01	1.32E+00	0.00E+00	0.00E+00	0.00E+00	2.30E+00
CO 60	0.00E+00	3.37E-02	1.99E-01	0.00E+00	0.00E+00	0.00E+00	3.35E-01
CR 51	0.00E+00	0.00E+00	9.21E-04	2.73E-03	2.34E-04	3.40E-03	4.51E-02
CS 134	9.57E+00	2.02E+01	2.45E+01	0.00E+00	1.95E+01	1.66E+01	1.92E-01
CS 137	6.31E+01	7.54E+01	6.86E+01	0.00E+00	7.77E+01	6.74E+01	8.17E-01
FE 55	4.00E+00	2.54E+00	1.55E+00	0.00E+00	0.00E+00	1.09E+01	8.39E-01
FE 59	5.54E-03	1.16E-02	1.17E-02	0.00E+00	0.00E+00	2.47E-02	2.09E-02
H 3	0.00E+00	5.19E-01	1.36E+00	7.24E+00	1.57E+00	3.51E+00	3.96E-01
HF 181	4.25E-08	2.06E-07	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	2.55E-04	1.93E-04	8.41E-04	3.27E+00	1.04E-03	0.00E+00	1.71E-05
I 131	1.69E-02	2.12E-02	2.98E-02	8.62E+01	1.11E-01	0.00E+00	3.19E-03
I 132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 133	1.16E-06	1.77E-06	1.41E-06	3.45E-03	9.42E-06	0.00E+00	1.02E-06
LA 140	1.89E-07	8.35E-08	5.81E-08	0.00E+00	0.00E+00	0.00E+00	3.65E-03
LA 141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN 54	0.00E+00	7.87E-02	4.08E-02	0.00E+00	7.11E-02	0.00E+00	1.23E-01
MO 99	0.00E+00	1.34E-05	6.68E-06	0.00E+00	9.28E-05	0.00E+00	1.83E-05
NB 95	5.78E-02	2.88E-02	4.14E-02	0.00E+00	8.45E-02	0.00E+00	9.38E+01
NI 63	3.71E-01	2.35E-02	2.96E-02	0.00E+00	0.00E+00	0.00E+00	2.86E-03
P 32	1.05E+01	5.82E-01	9.52E-01	0.00E+00	0.00E+00	0.00E+00	6.01E-01
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	2.79E-05	0.00E+00	2.80E-05	0.00E+00	2.67E-04	0.00E+00	1.59E-03
RU 106	1.82E-04	0.00E+00	5.40E-05	0.00E+00	9.57E-04	0.00E+00	5.99E-03
SB 122	6.96E-07	1.22E-08	4.76E-07	1.15E-07	0.00E+00	2.66E-06	1.03E-04
SB 124	2.99E-03	4.95E-05	2.74E-03	8.50E-05	0.00E+00	1.59E-02	4.13E-02
SB 125	8.87E-03	8.70E-05	4.87E-03	1.06E-04	0.00E+00	4.73E-02	4.72E-02
SB 126	2.23E-05	4.09E-07	1.88E-05	1.58E-06	0.00E+00	9.69E-05	9.01E-04
SE 75	0.00E+00	4.59E-02	4.73E-02	0.00E+00	2.04E-01	0.00E+00	3.60E-03
SN 113	3.02E-01	7.39E-03	4.07E-02	5.75E-02	0.00E+00	0.00E+00	0.00E+00
SR 89	3.23E-01	0.00E+00	2.17E-02	0.00E+00	0.00E+00	0.00E+00	2.63E-02
SR 90	1.05E+01	0.00E+00	4.93E-01	0.00E+00	0.00E+00	0.00E+00	1.64E-01
TC 99M	2.64E-17	6.62E-17	2.24E-15	0.00E+00	2.99E-15	2.48E-16	3.31E-14
TE 132	2.95E-04	1.68E-04	4.13E-04	2.47E-03	4.87E-03	0.00E+00	4.05E-03
Y 90	1.90E-06	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-02
ZN 65	2.05E-02	6.38E-02	7.79E-02	0.00E+00	1.24E-01	0.00E+00	2.06E-02
ZR 95	2.21E-05	6.26E-06	1.13E-05	0.00E+00	2.78E-05	0.00E+00	1.10E-02

CHILD

AG 110M	8.41E-05	7.07E-05	3.05E-04	0.00E+00	4.15E-04	0.00E+00	1.58E-02
BA 140	5.74E-04	6.26E-07	2.25E-04	0.00E+00	6.42E-07	2.77E-06	6.80E-04
BE 7	2.63E-08	5.57E-08	1.96E-07	0.00E+00	1.74E-07	0.00E+00	5.89E-06
C 14	1.32E+00	3.29E-01	1.77E+00	4.07E+00	1.04E+00	2.44E+00	6.19E-01
CE 141	5.81E-08	3.61E-08	2.89E-08	0.00E+00	4.98E-08	0.00E+00	8.47E-05
CE 144	5.88E-06	2.29E-06	2.11E-06	0.00E+00	4.00E-06	0.00E+00	1.13E-03
CO 57	0.00E+00	8.10E-05	8.84E-04	0.00E+00	0.00E+00	0.00E+00	1.25E-03
CO 58	0.00E+00	1.96E-01	3.23E+00	0.00E+00	0.00E+00	0.00E+00	2.15E+00
CO 60	0.00E+00	3.06E-02	4.86E-01	0.00E+00	0.00E+00	0.00E+00	3.19E-01
CR 51	0.00E+00	0.00E+00	2.26E-03	2.88E-03	2.00E-04	3.16E-03	4.18E-02
CS 134	9.30E+00	1.90E+01	2.16E+01	0.00E+00	1.85E+01	1.57E+01	1.93E-01
CS 137	6.40E+01	7.63E+01	6.07E+01	0.00E+00	7.83E+01	6.65E+01	8.98E-01
FE 55	4.22E+00	2.79E+00	4.60E+00	0.00E+00	0.00E+00	1.17E+01	9.72E-01
FE 59	5.41E-03	1.09E-02	2.93E-02	0.00E+00	0.00E+00	2.35E-02	2.13E-02
H 3	0.00E+00	4.80E-01	2.59E+00	5.94E+00	1.51E+00	3.57E+00	9.04E-01
HF 181	4.42E-08	2.25E-07	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	2.65E-04	2.02E-04	9.74E-04	1.64E+00	1.08E-03	0.00E+00	1.91E-05
I 131	1.72E-02	2.16E-02	6.61E-02	8.83E+01	1.12E-01	0.00E+00	3.61E-03
I 132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 133	1.19E-06	1.83E-06	3.74E-06	4.22E-03	9.64E-06	0.00E+00	1.39E-06

TABLE VII-E-1 (CONT.)

LA 140	1.91E-07	8.30E-08	1.51E-07	0.00E+00	0.00E+00	0.00E+00	4.35E-03
LA 141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN 54	0.00E+00	6.88E-02	9.87E-02	0.00E+00	6.07E-02	0.00E+00	1.09E-01
MO 99	0.00E+00	1.42E-05	1.90E-05	0.00E+00	9.58E-05	0.00E+00	2.21E-05
NB 95	5.50E-02	2.66E-02	1.03E-01	0.00E+00	7.89E-02	0.00E+00	9.27E-01
NI 63	3.92E-01	2.61E-02	8.95E-02	0.00E+00	0.00E+00	0.00E+00	3.31E-03
P 32	1.09E+01	6.33E-01	2.81E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-01
PR 144	0.90E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	2.78E-05	0.00E+00	7.16E-05	0.00E+00	2.74E-04	0.00E+00	1.68E-03
RU 106	1.89E-04	0.00E+00	1.58E-04	0.00E+00	1.00E-03	0.00E+00	6.89E-03
SB 122	7.24E-07	1.32E-08	1.41E-06	1.47E-07	0.00E+00	2.73E-06	1.33E-04
SB 124	2.98E-03	4.82E-05	7.01E-03	1.01E-04	0.00E+00	1.53E-02	4.37E-02
SB 125	8.90E-03	8.54E-05	1.25E-02	1.27E-04	0.00E+00	4.59E-02	4.98E-02
SB 126	2.14E-05	4.08E-07	5.16E-05	1.93E-06	0.00E+00	9.45E-05	1.01E-03
SE 75	0.00E+00	5.00E-02	1.40E-01	0.00E+00	2.15E-01	0.00E+00	4.41E-03
SN 113	3.14E-01	8.07E-03	1.21E-01	7.37E-02	0.00E+00	0.00E+00	0.00E+00
SR 89	3.37E-01	0.00E+00	6.46E-02	0.00E+00	0.00E+00	0.00E+00	3.05E-02
SR 90	9.15E+00	0.00E+00	1.24E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-01
TC 99M	2.55E-17	6.23E-17	5.57E-15	0.00E+00	2.85E-15	2.35E-16	6.67E-14
TE 132	2.97E-04	1.63E-04	1.06E-03	2.95E-03	4.78E-03	0.00E+00	3.10E-03
Y 90	1.98E-06	0.00E+00	3.56E-07	0.00E+00	0.00E+00	0.00E+00	1.32E-02
ZN 65	1.69E-02	5.61E-02	1.88E-01	0.00E+00	1.11E-01	0.00E+00	1.85E-02
ZR 95	2.16E-05	5.91E-06	2.84E-05	0.00E+00	2.67E-05	0.00E+00	1.16E-02

TABLE VII-E-2

* * * FISH CONSUMPTION POPULATION DOSES * * *

PERSON-REM

COMMERCIAL HARVEST

-----DOSE (PERSON-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	3.73E+06	1.90E-03	2.17E-03	1.49E-03	1.45E-04	7.20E-04	2.81E-04	3.93E-03
FISH	TEENAGER	4.35E+05	3.05E-04	3.44E-04	1.31E-04	1.98E-05	1.14E-04	5.09E-05	4.27E-04
FISH	CHILD	3.01E+05	6.07E-04	4.94E-04	9.12E-05	3.19E-05	1.57E-04	6.65E-05	2.49E-04
FISH	TOTAL	4.46E+06	2.81E-03	3.01E-03	1.71E-03	1.97E-04	9.91E-04	3.99E-04	4.60E-03

LOCATION DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR POPULATION-7.60E+05

7.30E+00 7.30E+04 2.41E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) ADULT-6.90E+00 TEEN-5.20E+00 CHILD-2.20E+00

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

AGE GROUP	ISOTOPE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT								
	AG 110M	9.92E-05	8.05E-05	6.96E-05	0.00E+00	4.76E-04	0.00E+00	1.81E-02
	BA 140	4.77E-04	5.26E-07	3.99E-05	0.00E+00	5.38E-07	2.32E-06	4.76E-04
	BE 7	2.37E-08	4.72E-08	3.37E-08	0.00E+00	1.50E-07	0.00E+00	4.53E-06
	C 14	1.24E+00	2.18E-01	3.17E-01	3.25E+00	6.56E-01	1.68E+00	1.20E-01
	CE 141	5.15E-08	3.06E-08	5.05E-09	0.00E+00	4.27E-08	0.00E+00	6.45E-05
	CE 144	5.49E-06	2.01E-06	3.76E-07	0.00E+00	3.59E-06	0.00E+00	8.99E-04
	CO 57	0.00E+00	8.06E-05	1.95E-04	0.00E+00	0.00E+00	0.00E+00	1.13E-03
	CO 58	0.00E+00	2.22E-01	7.24E-01	0.00E+00	0.00E+00	0.00E+00	2.48E+00
	CO 60	0.00E+00	3.49E-02	1.12E-01	0.00E+00	0.00E+00	0.00E+00	3.62E-01
	CR 51	0.00E+00	0.00E+00	4.78E-04	2.93E-03	2.18E-04	3.36E-03	4.56E-02
	CS 134	9.87E+00	2.06E+01	2.45E+01	0.00E+00	2.01E+01	1.71E+01	1.99E-01
	CS 137	6.25E+01	7.50E+01	7.15E+01	0.00E+00	7.66E+01	6.52E+01	8.01E-01
	FE 55	4.04E+00	2.45E+00	8.31E-01	0.00E+00	0.00E+00	1.05E+01	7.76E-01
	FE 59	5.44E-03	1.12E-02	6.26E-03	0.00E+00	0.00E+00	2.42E-02	2.07E-02
	H 3	0.00E+00	7.00E-01	1.02E+00	1.04E+01	2.11E+00	5.40E+00	3.87E-01
	HF 181	3.94E-08	1.88E-07	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	I 129	2.49E-04	1.88E-04	8.97E-04	7.21E+00	1.22E-03	0.00E+00	1.64E-05
	I 131	1.29E-02	1.62E-02	1.35E-02	7.90E+01	8.34E-02	0.00E+00	2.36E-03
	I 132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	I 133	1.04E-07	1.59E-07	7.06E-08	3.48E-04	8.35E-07	0.00E+00	7.89E-08
	LA 140	5.48E-08	2.42E-08	9.33E-09	0.00E+00	0.00E+00	0.00E+00	9.82E-04
	LA 141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MN 54	0.00E+00	8.24E-02	2.29E-02	0.00E+00	7.38E-02	0.00E+00	1.39E-01
	MO 99	0.00E+00	6.11E-06	1.69E-06	0.00E+00	4.16E-05	0.00E+00	7.82E-06
	NB 95	5.74E-02	2.80E-02	2.19E-02	0.00E+00	8.33E-02	0.00E+00	9.38E+01
	NI 63	3.80E-01	2.31E-02	1.63E-02	0.00E+00	0.00E+00	0.00E+00	2.66E-03
	P 32	8.80E+00	4.80E-01	4.35E-01	0.00E+00	0.00E+00	0.00E+00	4.79E-01
	PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RU 103	2.67E-05	0.00E+00	1.47E-05	0.00E+00	2.69E-04	0.00E+00	1.51E-03
	RU 106	1.77E-04	0.00E+00	2.86E-05	0.00E+00	9.03E-04	0.00E+00	5.55E-03
	SB 122	3.15E-07	5.41E-09	1.17E-07	5.78E-08	0.00E+00	1.11E-06	4.46E-05
	SB 124	2.91E-03	4.83E-05	1.47E-03	9.24E-05	0.00E+00	1.53E-02	4.00E-02
	SB 125	8.89E-03	8.72E-05	2.70E-03	1.18E-04	0.00E+00	4.64E-02	4.74E-02
	SB 126	1.90E-05	3.38E-07	8.74E-06	1.52E-06	0.00E+00	7.86E-05	7.50E-04
	SE 75	0.00E+00	4.33E-02	2.46E-02	0.00E+00	1.90E-01	0.00E+00	3.48E-03
	SN 113	2.89E-01	6.99E-03	2.11E-02	6.16E-02	0.00E+00	0.00E+00	0.00E+00
	SR 89	3.02E-01	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	2.35E-02
	SE 90	1.25E+01	0.00E+00	3.20E-01	0.00E+00	0.00E+00	0.00E+00	1.52E-01
	TC 99M	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	TE 132	1.57E-04	8.90E-05	1.22E-04	1.46E-03	2.58E-03	0.00E+00	2.32E-03
	Y 90	8.54E-07	0.00E+00	2.93E-08	0.00E+00	0.00E+00	0.00E+00	4.39E-03
	ZN 65	2.38E-02	6.63E-02	4.36E-02	0.00E+00	1.33E-01	0.00E+00	2.31E-02
	ZR 95	2.20E-05	6.18E-06	6.09E-06	0.00E+00	2.92E-05	0.00E+00	1.08E-02

TABLE VII-E-2 (CONT.)

TEENAGER

AG 110M	9.27E-05	7.77E-05	1.24E-04	0.00E+00	4.49E-04	0.00E+00	1.76E-02
BA 140	4.87E-04	5.29E-07	7.27E-05	0.00E+00	5.42E-07	2.40E-06	5.36E-04
BE 7	2.47E-08	4.92E-08	6.37E-08	0.00E+00	1.59E-07	0.00E+00	4.86E-06
C 14	1.29E+00	2.29E-01	6.01E-01	3.97E+00	6.95E-01	1.55E+00	1.85E-01
CE 141	5.33E-08	3.16E-08	9.49E-09	0.00E+00	4.50E-08	0.00E+00	7.27E-05
CE 144	5.71E-06	2.09E-06	7.11E-07	0.00E+00	3.78E-06	0.00E+00	1.02E-03
CO 57	0.00E+00	8.07E-05	3.54E-04	0.00E+00	0.00E+00	0.00E+00	1.21E-03
CO 58	0.00E+00	2.13E-01	1.29E+00	0.00E+00	0.00E+00	0.00E+00	2.37E+00
CO 60	0.00E+00	3.37E-02	1.99E-01	0.00E+00	0.00E+00	0.00E+00	3.54E-01
CR 51	0.00E+00	0.00E+00	8.56E-04	3.15E-03	2.17E-04	3.16E-03	4.43E-02
CS 134	9.69E+00	2.02E+01	2.45E+01	0.00E+00	1.94E+01	1.66E+01	2.02E-01
CS 137	6.40E+01	7.55E+01	6.88E+01	0.00E+00	7.77E+01	6.74E+01	8.65E-01
FE 55	4.05E+00	2.54E+00	1.55E+00	0.00E+00	0.00E+00	1.09E+01	8.87E-01
FE 59	5.37E-03	1.11E-02	1.12E-02	0.00E+00	0.00E+00	2.36E-02	2.11E-02
H 3	0.00E+00	5.20E-01	1.36E+00	9.00E+00	1.57E+00	3.51E+00	4.19E-01
HF 181	4.11E-08	1.97E-07	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	2.59E-04	1.93E-04	8.44E-04	4.07E+00	1.05E-03	0.00E+00	1.81E-05
I 131	1.32E-02	1.64E-02	2.31E-02	8.29E+01	8.54E-02	0.00E+00	2.61E-03
I 132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 133	1.08E-07	1.62E-07	1.29E-07	3.91E-04	8.58E-07	0.00E+00	9.85E-08
LA 140	5.56E-08	2.42E-08	1.69E-08	0.00E+00	0.00E+00	0.00E+00	1.12E-03
LA 141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN 54	0.00E+00	7.83E-02	4.06E-02	0.00E+00	7.07E-02	0.00E+00	1.29E-01
MO 99	0.00E+00	6.29E-06	3.14E-06	0.00E+00	4.36E-05	0.00E+00	9.08E-06
NB 95	5.53E-02	2.72E-02	3.92E-02	0.00E+00	7.97E-02	0.00E+00	9.36E+01
NI 63	3.77E-01	2.36E-02	2.96E-02	0.00E+00	0.00E+00	0.00E+00	3.02E-03
P 32	9.18E+00	5.04E-01	8.25E-01	0.00E+00	0.00E+00	0.00E+00	5.51E-01
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	2.68E-05	0.00E+00	2.66E-05	0.00E+00	2.54E-04	0.00E+00	1.60E-03
RU 106	1.84E-04	0.00E+00	5.38E-05	0.00E+00	9.52E-04	0.00E+00	6.30E-03
SB 122	3.27E-07	5.64E-09	2.21E-07	6.61E-08	0.00E+00	1.23E-06	5.03E-05
SB 124	2.93E-03	4.79E-05	2.66E-03	1.02E-04	0.00E+00	1.53E-02	4.22E-02
SB 125	8.98E-03	8.70E-05	4.87E-03	1.32E-04	0.00E+00	4.73E-02	4.99E-02
SB 126	1.91E-05	3.46E-07	1.59E-05	1.66E-06	0.00E+00	8.20E-05	8.07E-04
SE 75	0.00E+00	4.52E-02	4.66E-02	0.00E+00	2.01E-01	0.00E+00	3.74E-03
SN 113	3.01E-01	7.27E-03	4.00E-02	7.03E-02	0.00E+00	0.00E+00	0.00E+00
SR 89	3.15E-01	0.00E+00	2.09E-02	0.00E+00	0.00E+00	0.00E+00	2.68E-02
SR 90	1.07E+01	0.00E+00	4.94E-01	0.00E+00	0.00E+00	0.00E+00	1.74E-01
TC 99M	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE 132	1.58E-04	8.88E-05	2.19E-04	1.62E-03	2.58E-03	0.00E+00	2.27E-03
Y 90	8.87E-07	0.00E+00	5.54E-08	0.00E+00	0.00E+00	0.00E+00	5.22E-03
ZN 65	2.06E-02	6.34E-02	7.74E-02	0.00E+00	1.23E-01	0.00E+00	2.16E-02
ZR 95	2.17E-05	6.07E-06	1.09E-05	0.00E+00	2.70E-05	0.00E+00	1.13E-02

CHILD

AG 110M	8.47E-05	7.03E-05	3.04E-04	0.00E+00	4.12E-04	0.00E+00	1.66E-02
BA 140	4.95E-04	5.33E-07	1.92E-04	0.00E+00	5.46E-07	2.36E-06	6.12E-04
BE 7	2.57E-08	5.36E-08	1.90E-07	0.00E+00	1.67E-07	0.00E+00	6.00E-06
C 14	1.34E+00	3.30E-01	1.78E+00	5.10E+00	1.04E+00	2.45E+00	6.55E-01
CE 141	5.54E-08	3.39E-08	2.73E-08	0.00E+00	4.68E-08	0.00E+00	8.40E-05
CE 144	5.93E-06	2.28E-06	2.10E-06	0.00E+00	3.98E-06	0.00E+00	1.18E-03
CO 57	0.00E+00	8.05E-05	8.82E-04	0.00E+00	0.00E+00	0.00E+00	1.31E-03
CO 58	0.00E+00	1.90E-01	3.15E+00	0.00E+00	0.00E+00	0.00E+00	2.21E+00
CO 60	0.00E+00	3.06E-02	4.89E-01	0.00E+00	0.00E+00	0.00E+00	3.37E-01
CR 51	0.00E+00	0.00E+00	2.11E-03	3.35E-03	1.86E-04	2.93E-03	4.11E-02
CS 134	9.42E+00	1.90E+01	2.17E+01	0.00E+00	1.85E+01	1.57E+01	2.03E-01
CS 137	6.50E+01	7.64E+01	6.10E+01	0.00E+00	7.84E+01	6.65E+01	9.50E-01
FE 55	4.28E+00	2.79E+00	4.68E+00	0.00E+00	0.00E+00	1.17E+01	1.03E+00
FE 59	5.24E-03	1.04E-02	2.81E-02	0.00E+00	0.00E+00	2.24E-02	2.16E-02
H 3	0.00E+00	4.81E-01	2.60E+00	7.44E+00	1.51E+00	3.57E+00	9.56E-01
HF 181	4.27E-08	2.15E-07	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	2.69E-04	2.03E-04	9.79E-04	2.05E+00	1.08E-03	0.00E+00	2.02E-05
I 131	1.35E-02	1.67E-02	5.13E-02	8.53E+01	8.63E-02	0.00E+00	2.95E-03
I 132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 133	1.10E-07	1.67E-07	3.42E-07	4.80E-04	8.77E-07	0.00E+00	1.34E-07

TABLE VII-E-2 (CONT.)

LA 140	5.61E-08	2.41E-08	4.40E-08	0.00E+00	0.00E+00	0.00E+00	1.33E-03
LA 141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN 54	0.00E+00	6.84E-02	9.87E-02	0.00E+00	6.04E-02	0.00E+00	1.14E-01
MO 99	0.00E+00	6.69E-06	8.96E-06	0.00E+00	4.50E-05	0.00E+00	1.10E-05
NB 95	5.26E-02	2.52E-02	9.73E-02	0.00E+00	7.44E-02	0.00E+00	9.24E+01
NI 63	3.98E-01	2.62E-02	9.01E-02	0.00E+00	0.00E+00	0.00E+00	3.50E-03
P 32	9.54E+00	5.48E-01	2.44E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-01
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	2.67E-05	0.00E+00	6.83E-05	0.00E+00	2.60E-04	0.00E+00	1.69E-03
RU 106	1.91E-04	0.00E+00	1.58E-04	0.00E+00	9.98E-04	0.00E+00	7.25E-03
SB 122	3.40E-07	6.14E-09	6.58E-07	8.55E-08	0.00E+00	1.26E-06	6.53E-05
SB 124	2.93E-03	4.66E-05	6.82E-03	1.23E-04	0.00E+00	1.48E-02	4.46E-02
SB 125	9.02E-03	8.54E-05	1.26E-02	1.59E-04	0.00E+00	4.58E-02	5.25E-02
SB 126	1.84E-05	3.45E-07	4.39E-05	2.05E-06	0.00E+00	8.00E-05	9.04E-04
SE 75	0.00E+00	4.92E-02	1.39E-01	0.00E+00	2.11E-01	0.00E+00	4.59E-03
SN 113	3.13E-01	7.94E-03	1.19E-01	9.06E-02	0.00E+00	0.00E+00	0.00E+00
SR 89	3.28E-01	0.00E+00	6.23E-02	0.00E+00	0.00E+00	0.00E+00	10E-02
SR 90	9.29E+00	0.00E+00	1.24E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-01
TC 99M	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE 132	1.59E-04	8.66E-05	5.66E-04	1.95E-03	2.53E-03	0.00E+00	1.73E-03
Y 90	9.25E-07	0.00E+00	1.65E-07	0.00E+00	0.00E+00	0.00E+00	6.42E-03
ZN 65	1.70E-02	5.58E-02	1.88E-01	0.00E+00	1.11E-01	0.00E+00	1.95E-02
ZR 95	2.12E-05	5.74E-06	2.76E-05	0.00E+00	2.59E-05	0.00E+00	1.19E-02

NEPA DOSES

NOTE--TOTAL NEPA DOSE INCLUDES SPORT CATCH

-----DOSE (PERSON-REM)-----									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	1.22E+05	3.78E-02	4.28E-02	2.94E-02	3.20E-03	1.42E-02	5.55E-03	7.97E-02
FISH	TEENAGER	1.42E+04	6.05E-03	6.79E-03	2.59E-03	4.39E-04	2.24E-03	1.00E-03	8.67E-03
FISH	CHILD	9.85E+03	1.21E-02	9.75E-03	1.81E-03	7.09E-04	3.10E-03	1.31E-03	5.05E-03
FISH	TOTAL	1.46E+05	5.59E-02	5.93E-02	3.38E-02	4.35E-03	1.96E-02	7.87E-03	9.34E-02

TABLE VII-E-3

* * * POPULATION WATER CONSUMPTION DOSES * * *

SUPPLIER-OMAHA

-----DOSE (PERSON-REM)-----									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	ADULT	1.39E+08	5.30E-02	9.94E-02	9.73E-02	1.81E-01	9.24E-02	9.32E-02	1.30E-01
DRINKING	TEENAGER	1.51E+07	7.02E-03	1.13E-02	1.07E-02	2.18E-02	1.02E-02	1.04E-02	1.40E-02
DRINKING	CHILD	2.48E+07	3.01E-02	3.59E-02	3.36E-02	7.71E-02	3.22E-02	3.28E-02	3.69E-02
DRINKING	TOTAL	1.79E+08	9.01E-02	1.47E-01	1.42E-01	2.80E-01	1.35E-01	1.36E-01	1.81E-01

POPULATION=5.29E+05 DILUTION=3.08E+01 TRANSIT TIME=3.06E+01 HR (INCLUDING 24 HR FOR TREATMENT FACILITY)

AVERAGE INDIVIDUAL CONSUMPTION (L/YR) ADULT=3.70E+02 TEEN=2.60E+02 CHILD=2.60E+02

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

AGE GROUP	ISOTOPE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT	AG 110M	8.45E-03	4.17E-03	2.53E-03	0.00E+00	8.82E-03	0.00E+00	1.30E+00
	BA 140	3.66E-02	2.45E-05	1.31E-03	0.00E+00	8.98E-06	1.50E-05	3.08E-02
	BE 7	2.54E-06	3.07E-06	1.54E-06	0.00E+00	3.49E-06	0.00E+00	4.08E-04
	C 14	5.16E-02	5.51E-03	5.62E-03	3.03E-03	5.93E-03	5.88E-03	4.21E-03
	CE 141	1.19E-05	4.28E-06	4.96E-07	0.00E+00	2.14E-06	0.00E+00	1.25E-02
	CE 144	1.07E-03	2.39E-04	3.13E-05	0.00E+00	1.52E-04	0.00E+00	1.48E-01
	CO 57	0.00E+00	1.91E-04	3.25E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-03
	CO 58	0.00E+00	5.62E-01	1.29E+00	0.00E+00	0.00E+00	0.00E+00	8.71E+00
	CO 60	0.00E+00	8.14E-02	1.83E-01	0.00E+00	0.00E+00	0.00E+00	1.17E+00
	CR 51	0.00E+00	0.00E+00	2.43E-04	7.81E-05	5.63E-05	3.36E-04	4.57E-02
	CS 134	9.52E-01	1.21E+00	1.01E+00	0.00E+00	4.21E-01	1.38E-01	1.62E-02
	CS 137	5.98E+00	4.36E+00	2.92E+00	0.00E+00	1.59E+00	5.25E-01	6.45E-02
	FE 55	7.77E+00	2.86E+00	6.82E-01	0.00E+00	0.00E+00	1.70E+00	1.26E+00
	FE 59	1.19E-02	1.49E-02	5.85E-03	0.00E+00	0.00E+00	4.46E-03	3.81E-02
	H 3	0.00E+00	9.05E+01	9.25E+01	4.98E+01	9.74E+01	9.66E+01	6.92E+01
	HF 181	2.64E-06	7.66E-06	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	I 129	3.18E-03	1.46E-03	4.88E-03	2.06E-03	3.37E-03	0.00E+00	1.76E-04
	I 131	3.49E-01	2.67E-01	1.56E-01	4.80E-01	4.92E-01	0.00E+00	5.38E-02
	I 132	4.91E-09	7.00E-09	2.50E-09	1.35E-07	1.20E-08	0.00E+00	1.01E-09
	I 133	1.45E-03	1.34E-03	4.19E-04	1.09E-01	2.52E-03	0.00E+00	9.24E-04
	LA 140	1.56E-05	4.19E-06	1.13E-06	0.00E+00	0.00E+00	0.00E+00	2.35E-01
	LA 141	7.84E-10	1.30E-10	2.17E-11	0.00E+00	0.00E+00	0.00E+00	1.18E-05
	MN 54	0.00E+00	2.44E-02	4.76E-03	0.00E+00	7.81E-03	0.00E+00	5.72E-02
	MO 99	0.00E+00	6.46E-04	1.26E-04	0.00E+00	1.57E-03	0.00E+00	1.15E-03
	NB 95	4.35E-04	1.29E-04	7.08E-05	0.00E+00	1.37E-04	0.00E+00	5.98E-01
	NI 63	7.26E-01	2.68E-02	1.33E-02	0.00E+00	0.00E+00	0.00E+00	4.28E-03
	P 32	2.57E-02	8.53E-04	5.42E-04	0.00E+00	0.00E+00	0.00E+00	1.18E-03
	PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RU 103	5.96E-04	0.00E+00	1.40E-04	0.00E+00	1.30E-03	0.00E+00	2.84E-02
	RU 106	3.44E-03	0.00E+00	2.37E-04	0.00E+00	3.82E-03	0.00E+00	9.09E-02
	SB 122	5.69E-04	5.94E-06	9.02E-05	2.34E-06	0.00E+00	0.00E-04	6.79E-02
	SB 124	6.16E-01	6.20E-03	1.33E-01	4.38E-04	0.00E+00	2.73E-01	7.13E+00
	SB 125	1.71E+00	1.02E-02	2.22E-01	5.10E-04	0.00E+00	7.50E-01	7.68E+00
	SB 126	5.91E-03	6.41E-05	1.16E-03	1.06E-05	0.00E+00	2.06E-03	1.97E-01
	SE 75	0.00E+00	3.11E-02	1.24E-02	0.00E+00	4.88E-02	0.00E+00	3.47E-03
	SN 113	1.94E-02	2.85E-04	6.06E-04	9.29E-05	0.00E+00	0.00E+00	0.00E+00
	SR 89	2.17E+00	0.00E+00	3.40E-02	0.00E+00	0.00E+00	0.00E+00	1.42E-01
	SR 90	7.96E+01	0.00E+00	8.71E-01	0.00E+00	0.00E+00	0.00E+00	8.16E-01
	TC 99M	2.82E-09	4.25E-09	5.53E-08	0.00E+00	6.94E-08	2.22E-09	1.92E-06
	TE 132	4.81E-04	1.66E-04	1.59E-04	1.01E-04	1.72E-03	0.00E+00	6.01E-03
	Y 90	6.31E-05	0.00E+00	9.22E-07	0.00E+00	0.00E+00	0.00E+00	2.73E-01
	ZN 65	2.33E-03	3.95E-03	1.82E-03	0.00E+00	2.84E-03	0.00E+00	1.90E-03
	ZR 95	1.40E-03	2.39E-04	1.65E-04	0.00E+00	4.04E-04	0.00E+00	5.80E-01

TABLE VII-E-3 (CONT.)

TEENAGER

AG 110M	8.90E-03	5.24E-03	3.36E-03	0.00E+00	1.10E-02	0.00E+00	1.18E+00
BA 140	4.22E-02	3.21E-05	1.78E-03	0.00E+00	1.20E-05	2.34E-05	3.25E-02
BE 7	2.99E-06	4.17E-06	2.18E-06	0.00E+00	4.90E-06	0.00E+00	4.12E-04
C 14	6.07E-02	7.55E-03	7.97E-03	3.91E-03	8.32E-03	8.17E-03	6.07E-03
CE 141	1.39E-05	5.76E-06	6.98E-07	0.00E+00	2.99E-06	0.00E+00	1.32E-02
CE 144	1.26E-03	3.23E-04	4.43E-05	0.00E+00	2.13E-04	0.00E+00	1.58E-01
CO 57	0.00E+00	2.50E-04	4.42E-04	0.00E+00	0.00E+00	0.00E+00	3.74E-03
CO 58	0.00E+00	7.03E-01	1.71E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00
CO 60	0.00E+00	1.02E-01	2.44E-01	0.00E+00	0.00E+00	0.00E+00	1.07E+00
CR 51	0.00E+00	0.00E+00	3.26E-04	8.88E-05	7.45E-05	4.76E-04	4.16E-02
CS 134	1.05E+00	1.54E+00	7.55E-01	0.00E+00	5.40E-01	2.02E-01	1.54E-02
CS 137	6.91E+00	5.71E+00	2.10E+00	0.00E+00	2.14E+00	8.18E-01	6.54E-02
FE 55	8.79E+00	3.87E+00	9.54E-01	0.00E+00	0.00E+00	2.66E+00	1.35E+00
FE 59	1.33E-02	1.92E-02	7.85E-03	0.00E+00	0.00E+00	6.57E-03	3.66E-02
H 3	0.00E+00	8.75E+01	9.24E+01	4.54E+01	9.65E+01	9.47E+01	7.04E+01
HF 181	3.10E-06	1.04E-05	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	3.73E-03	1.95E-03	3.43E-03	1.23E-03	3.84E-03	0.00E+00	1.83E-04
I 131	4.04E-01	3.52E-01	2.00E-01	5.32E+01	6.68E-01	0.00E+00	5.60E-02
I 132	5.55E-09	9.02E-09	3.42E-09	1.58E-07	1.57E-08	0.00E+00	3.16E-09
I 133	1.69E-03	1.78E-03	5.73E-04	1.29E-01	3.44E-03	0.00E+00	1.08E-03
LA 140	1.78E-05	5.45E-06	1.53E-06	0.00E+00	0.00E+00	0.00E+00	2.51E-01
LA 141	9.19E-10	1.76E-10	3.06E-11	0.00E+00	0.00E+00	0.00E+00	2.50E-05
MN 54	0.00E+00	3.02E-02	6.33E-03	0.00E+00	9.94E-03	0.00E+00	4.98E-02
MO 99	0.00E+00	8.67E-04	1.75E-04	0.00E+00	2.19E-03	0.00E+00	1.25E-03
NB 95	4.72E-04	1.63E-04	9.47E-05	0.00E+00	1.74E-04	0.00E+00	5.60E-01
NI 63	8.13E-01	3.57E-02	1.81E-02	0.00E+00	0.00E+00	0.00E+00	4.57E-03
P 32	3.03E-02	1.17E-03	7.70E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-03
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	6.75E-04	0.00E+00	1.90E-04	0.00E+00	1.63E-03	0.00E+00	2.82E-02
RU 106	4.04E-03	0.00E+00	3.34E-04	0.00E+00	5.34E-03	0.00E+00	9.68E-02
SB 122	6.67E-04	8.07E-06	1.28E-04	2.83E-06	0.00E+00	2.83E-04	7.18E-02
SL 124	7.00E-01	8.02E-03	1.79E-01	5.12E-04	0.00E+00	4.11E-01	7.05E+00
SB 125	1.95E+00	1.32E-02	2.99E-01	6.01E-04	0.00E+00	1.15E+00	7.58E+00
SB 126	6.72E-03	8.54E-05	1.58E-03	1.23E-05	0.00E+00	3.24E-03	1.99E-01
SE 75	0.00E+00	4.23E-02	1.76E-02	0.00E+00	6.85E-02	0.00E+00	3.50E-03
SN 113	2.28E-02	3.87E-04	8.59E-04	1.12E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.55E+00	0.00E+00	4.80E-02	0.00E+00	0.00E+00	0.00E+00	1.52E-01
SR 90	7.68E+01	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-01
TC 99M	3.12E-09	5.41E-09	7.40E-08	0.00E+00	8.89E-08	3.25E-09	2.85E-06
TE 132	5.48E-04	2.16E-04	2.15E-04	1.18E-04	2.28E-03	0.00E+00	5.50E-03
Y 90	7.40E-05	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	3.05E-01
ZN 65	2.28E-03	4.92E-03	2.42E-03	0.00E+00	3.47E-03	0.00E+00	1.67E-03
ZR 95	1.56E-03	3.06E-04	2.22E-04	0.00E+00	4.96E-04	0.00E+00	5.68E-01

CHILD

AG 110M	8.95E-03	5.05E-03	4.31E-03	0.00E+00	1.05E-02	0.00E+00	5.85E-01
BA 140	4.71E-02	3.45E-05	2.46E-03	0.00E+00	1.25E-05	2.26E-05	1.94E-02
BE 7	3.41E-06	4.85E-06	3.38E-06	0.00E+00	5.36E-06	0.00E+00	2.66E-04
C 14	6.91E-02	1.16E-02	1.24E-02	5.39E-03	1.29E-02	1.27E-02	1.13E-02
CE 141	1.58E-05	6.60E-06	1.05E-06	0.00E+00	3.23E-06	0.00E+00	8.01E-03
CE 144	1.44E-03	3.76E-04	6.84E-05	0.00E+00	2.32E-04	0.00E+00	9.55E-02
CO 57	0.00E+00	2.66E-04	5.75E-04	0.00E+00	0.00E+00	0.00E+00	2.12E-03
CO 58	0.00E+00	6.69E-01	2.19E+00	0.00E+00	0.00E+00	0.00E+00	3.80E+00
CO 60	0.00E+00	9.91E-02	3.12E-01	0.00E+00	0.00E+00	0.00E+00	5.34E-01
CR 51	0.00E+00	0.00E+00	4.18E-04	1.01E-04	6.63E-05	4.35E-04	2.02E-02
CS 134	1.13E+00	1.54E+00	3.48E-01	0.00E+00	5.34E-01	1.88E-01	8.10E-03
CS 137	7.71E+00	6.17E+00	9.73E-01	0.00E+00	2.24E+00	7.93E-01	3.76E-02
FE 55	1.02E+01	4.53E+00	1.50E+00	0.00E+00	0.00E+00	2.81E+00	8.17E-01
FE 59	1.42E-02	1.93E-02	1.03E-02	0.00E+00	0.00E+00	6.13E-03	1.95E-02
H 3	0.00E+00	8.64E+01	9.23E+01	4.03E+01	9.64E+01	9.47E+01	8.41E+01
HF 181	3.54E-06	1.21E-05	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	4.25E-03	2.18E-03	2.08E-03	6.65E-01	4.11E-03	0.00E+00	1.07E-04
I 131	4.54E-01	3.82E-01	2.32E-01	5.89E-01	7.00E-01	0.00E+00	3.31E-02
I 132	6.08E-09	9.34E-09	4.59E-09	2.02E-07	1.59E-08	0.00E+00	1.07E-08
I 133	1.90E-03	1.96E-03	7.94E-04	1.70E-01	3.65E-03	0.00E+00	7.70E-04

TABLE VII-E-3 (CONT.)

LA 140	1.98E-05	5.78E-06	2.08E-06	0.00E+00	0.00E+00	0.00E+00	1.57E-01
LA 141	1.05E-09	2.05E-10	4.75E-11	0.00E+00	0.00E+00	0.00E+00	4.43E-05
MN 54	0.00E+00	2.82E-02	8.01E-03	0.00E+00	8.81E-03	0.00E+00	2.30E-02
MO 99	0.00E+00	9.83E-04	2.60E-04	0.00E+00	2.34E-03	0.00E+00	7.91E-04
NB 95	4.94E-04	1.61E-04	1.23E-04	0.00E+00	1.69E-04	0.00E+00	2.89E-01
NI 63	9.44E-01	4.23E-02	2.87E-02	0.00E+00	0.00E+00	0.00E+00	2.77E-03
P 32	3.46E-02	1.35E-03	1.19E-03	0.00E+00	0.00E+00	0.00E+00	7.77E-04
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	7.40E-04	0.00E+00	2.54E-04	0.00E+00	1.74E-03	0.00E+00	1.56E-02
RU 106	4.60E-03	0.00E+00	5.13E-04	0.00E+00	5.80E-03	0.00E+00	5.83E-02
SB 122	7.62E-04	9.37E-06	1.98E-04	3.93E-06	0.00E+00	2.85E-04	4.88E-02
SB 124	7.67E-01	8.32E-03	2.40E-01	6.60E-04	0.00E+00	3.90E-01	3.90E+00
SB 125	2.15E+00	1.39E-02	4.02E-01	7.76E-04	0.00E+00	1.10E+00	4.18E+00
SB 126	7.11E-03	9.09E-05	2.28E-03	1.62E-05	0.00E+00	3.11E-03	1.17E-01
SE 75	0.00E+00	4.91E-02	2.73E-02	0.00E+00	7.47E-02	0.00E+00	2.24E-03
SN 113	2.61E-02	4.50E-04	1.34E-03	1.55E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.93E+00	0.00E+00	7.47E-02	0.00E+00	0.00E+00	0.00E+00	9.22E-02
SR 90	7.35E+01	0.00E+00	1.32E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-01
TC 95	3.31E-09	5.43E-09	9.62E-08	0.00E+00	8.80E-08	3.02E-09	3.01E-06
TE 132	6.06E-04	2.25E-04	2.90E-04	1.52E-04	2.33E-03	0.00E+00	2.20E-03
Y 90	8.48E-05	0.00E+00	2.03E-06	0.00E+00	0.00E+00	0.00E+00	1.96E-01
ZN 65	2.07E-03	4.61E-03	3.07E-03	0.00E+00	3.24E-03	0.00E+00	7.88E-04
ZR 95	1.68E-03	3.08E-04	2.93E-04	0.00E+00	4.93E-04	0.00E+00	3.13E-01

TABLE VII-E-4

* * * POPULATION WATER CONSUMPTION DOSES * * *

SUPPLIER-COUNCIL BLUFFS

-----DOSE (PERSON-REM)-----									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	ADULT	2.29E+07	8.58E-03	1.61E-02	1.58E-02	2.92E-02	1.50E-02	1.51E-02	2.10E-02
DRINKING	TEENAGER	2.49E+06	1.14E-03	1.83E-03	1.73E-03	3.52E-03	1.66E-03	1.69E-03	2.27E-03
DRINKING	CHILD	4.07E+06	4.86E-03	5.81E-03	5.44E-03	1.25E-02	5.21E-03	5.31E-03	5.98E-03
DRINKING	TOTAL	2.94E+07	1.46E-02	2.37E-02	2.29E-02	4.52E-02	2.18E-02	2.21E-02	2.93E-02

POPULATION=8.70E+04 DILUTION=3.13E+01 TRANSIT TIME=3.10E+01 HR (INCLUDING 24 HR FOR TREATMENT FACILITY)

AVERAGE INDIVIDUAL CONSUMPTION (L/YR) ADULT=3.70E+02 TEEN=2.60E+02 CHILD=2.60E+02

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

AGE GROUP	ISOTOPE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT	AG 110M	8.45E-03	4.17E-03	2.53E-03	0.00E+00	8.82E-03	0.00E+00	1.30E+00
	BA 140	3.66E-02	2.45E-05	1.31E-03	0.00E+00	8.97E-06	1.50E-05	3.08E-02
	BE 7	2.54E-06	3.07E-06	1.54E-06	0.00E+00	3.49E-06	0.00E+00	4.08E-04
	C 14	5.16E-02	5.51E-03	5.62E-03	3.03E-03	5.93E-03	5.88E-03	4.21E-03
	CE 141	1.19E-05	4.28E-06	4.96E-07	0.00E+00	2.14E-06	0.00E+00	1.25E-02
	CE 144	1.07E-03	2.39E-04	3.13E-05	0.00E+00	1.52E-04	0.00E+00	1.48E-01
	CO 57	0.00E+00	1.91E-04	3.25E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-03
	CO 58	0.00E+00	5.62E-01	1.29E+00	0.00E+00	0.00E+00	0.00E+00	8.71E+00
	CO 60	0.00E+00	8.14E-02	1.83E-01	0.00E+00	0.00E+00	0.00E+00	1.17E+00
	CR 51	0.00E+00	0.00E+00	2.43E-04	7.81E-05	5.63E-05	3.36E-04	4.57E-02
	CS 134	9.52E-01	1.21E+00	1.01E+00	0.00E+00	4.21E-01	1.38E-01	1.62E-02
	CS 137	5.98E+00	4.36E+00	2.92E+00	0.00E+00	1.59E+00	5.25E-01	6.45E-02
	FE 55	7.77E+00	2.86E+00	6.82E-01	0.00E+00	0.00E+00	1.70E+00	1.26E+00
	FE 59	1.19E-02	1.49E-02	5.85E-03	0.00E+00	0.00E+00	4.45E-03	3.81E-02
	H 3	0.00E+00	9.05E+01	9.25E+01	4.98E+01	9.74E+01	9.66E+01	6.92E+01
	HF 181	2.63E-06	7.65E-06	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	I 129	3.18E-03	1.46E-03	4.88E-03	2.06E+00	3.37E-03	0.00E+00	1.76E-04
	I 131	3.49E-01	2.66E-01	1.56E-01	4.80E+01	4.91E-01	0.00E+00	5.37E-02
	I 132	4.35E-09	6.20E-09	2.22E-09	1.19E-07	1.06E-08	0.00E+00	8.91E-10
	I 133	1.43E-03	1.33E-03	4.13E-04	1.07E-01	2.49E-03	0.00E+00	9.12E-04
	LA 140	1.55E-05	4.16E-06	1.12E-06	0.00E+00	0.00E+00	0.00E+00	2.33E-01
	LA 141	7.30E-10	1.21E-10	2.02E-11	0.00E+00	0.00E+00	0.00E+00	1.10E-05
	MN 54	0.00E+00	2.44E-02	4.76E-03	0.00E+00	7.81E-03	0.00E+00	5.72E-02
	MO 99	0.00E+00	6.43E-04	1.25E-04	0.00E+00	1.57E-03	0.00E+00	1.14E-03
	NB 95	4.34E-04	1.29E-04	7.07E-05	0.00E+00	1.37E-04	0.00E+00	5.98E-01
	NI 63	7.26E-01	2.68E-02	1.33E-02	0.00E+00	0.00E+00	0.00E+00	4.28E-03
	P 32	2.57E-02	8.52E-04	5.41E-04	0.00E+00	0.00E+00	0.00E+00	1.18E-03
	PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RU 103	5.95E-04	0.00E+00	1.40E-04	0.00E+00	1.30E-03	0.00E+00	2.84E-02
	RU 106	3.44E-03	0.00E+00	2.37E-04	0.00E+00	3.82E-03	0.00E+00	9.09E-02
	SB 122	5.66E-04	5.92E-06	8.98E-05	2.33E-06	0.00E+00	1.68E-04	6.76E-02
	SB 124	6.15E-01	6.20E-03	1.33E-01	4.38E-04	0.00E+00	2.73E-01	7.13E+00
	SB 125	1.71E+00	1.02E-02	2.22E-01	5.10E-04	0.00E+00	7.50E-01	7.68E+00
	SB 126	5.90E-03	6.41E-05	1.16E-03	1.06E-05	0.00E+00	2.06E-03	1.97E-01
	SE 75	0.00E+00	3.11E-02	1.24E-02	0.00E+00	4.88E-02	0.00E+00	3.47E-03
	SN 113	1.94E-02	2.85E-04	6.06E-04	9.29E-05	0.00E+00	0.00E+00	0.00E+00
	SR 89	2.17E+00	0.00E+00	3.40E-02	0.00E+00	0.00E+00	0.00E+00	1.42E-01
	SR 90	7.96E+01	0.00E+00	8.71E-01	0.00E+00	0.00E+00	0.00E+00	8.16E-01
	TC 99M	2.69E-09	4.06E-09	5.28E-08	0.00E+00	6.63E-08	2.12E-09	1.84E-06
	TE 132	4.80E-04	1.66E-04	1.59E-04	1.01E-04	1.72E-03	0.00E+00	5.99E-03
	Y 90	6.29E-05	0.00E+00	9.18E-07	0.00E+00	0.00E+00	0.00E+00	2.72E-01
	ZN 65	2.33E-03	3.95E-03	1.82E-03	0.00E+00	2.84E-03	0.00E+00	1.90E-03
	ZR 95	1.40E-03	2.39E-04	1.65E-04	0.00E+00	4.04E-04	0.00E+00	5.80E-01

TABLE VII-E-4 (CONT.)

TEENAGER

AG 110M	8.90E-03	5.24E-03	3.36E-03	0.00E+00	1.10E-02	0.00E+00	1.18E+00
BA 140	4.21E-02	3.21E-05	1.78E-03	0.00E+00	1.20E-05	2.34E-05	3.25E-02
BE 7	2.99E-06	4.17E-06	2.18E-06	0.00E+00	4.90E-06	0.00E+00	4.12E-04
C 14	6.07E-02	7.55E-03	7.97E-03	3.92E-03	8.32E-03	8.17E-03	6.07E-03
CE 141	1.39E-05	5.76E-06	6.98E-07	0.00E+00	2.99E-06	0.00E+00	1.32E-02
CE 144	1.26E-03	3.23E-04	4.43E-05	0.00E+00	2.13E-04	0.00E+00	1.58E-01
CO 57	0.00E+00	2.50E-04	4.42E-04	0.00E+00	0.00E+00	0.00E+00	3.74E-03
CO 58	0.00E+00	7.03E-01	1.71E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00
CO 60	0.00E+00	1.02E-01	2.44E-01	0.00E+00	0.00E+00	0.00E+00	1.07E+00
CR 51	0.00E+00	0.00E+00	3.25E-04	8.88E-05	7.45E-05	4.76E-04	4.16E-02
CS 134	1.05E+00	1.54E+00	7.55E-01	0.00E+00	5.40E-01	2.02E-01	1.54E-02
CS 137	6.91E+00	5.71E+00	2.10E+00	0.00E+00	2.14E+00	8.18E-01	6.54E-02
FE 55	8.79E+00	3.87E+00	9.54E-01	0.00E+00	0.00E+00	2.66E+00	1.35E+00
FE 59	1.33E-02	1.92E-02	7.85E-03	0.00E+00	0.00E+00	6.57E-03	3.66E-02
H 3	0.00E+00	8.75E+01	9.24E+01	4.54E+01	9.65E+01	9.47E+01	7.04E+01
HF 181	3.10E-06	1.04E-05	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	3.73E-03	1.95E-03	3.43E-03	1.23E+00	3.84E-03	0.00E+00	1.83E-04
I 131	4.04E-01	3.51E-01	1.99E-01	5.32E+01	6.67E-01	0.00E+00	5.59E-02
I 132	4.92E-09	8.00E-09	3.03E-09	1.40E-07	1.39E-08	0.00E+00	2.80E-09
I 133	1.66E-03	1.76E-03	5.66E-04	1.27E-01	3.40E-03	0.00E+00	1.07E-03
LA 140	1.77E-05	5.41E-06	1.52E-06	0.00E+00	0.00E+00	0.00E+00	2.50E-01
LA 141	8.57E-10	1.64E-10	2.86E-11	0.00E+00	0.00E+00	0.00E+00	2.33E-05
MN 54	0.00E+00	3.02E-02	6.33E-03	0.00E+00	9.94E-03	0.00E+00	4.98E-02
MO 99	0.00E+00	8.63E-04	1.74E-04	0.00E+00	2.18E-03	0.00E+00	1.24E-03
NB 95	4.72E-04	1.63E-04	9.47E-05	0.00E+00	1.74E-04	0.00E+00	5.60E-01
NI 63	8.13E-01	3.57E-02	1.81E-02	0.00E+00	0.00E+00	0.00E+00	4.57E-03
P 32	3.02E-02	1.16E-03	7.69E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-03
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	6.75E-04	0.00E+00	1.89E-04	0.00E+00	1.63E-03	0.00E+00	2.82E-02
RU 106	4.04E-03	0.00E+00	3.34E-04	0.00E+00	5.34E-03	0.00E+00	9.68E-02
SB 122	6.64E-04	8.03E-06	1.27E-04	2.82E-06	0.00E+00	2.81E-04	7.15E-02
SB 124	7.00E-01	8.02E-03	1.79E-01	5.12E-04	0.00E+00	4.11E-01	7.05E+00
SB 125	1.95E+00	1.32E-02	2.99E-01	6.01E-04	0.00E+00	1.15E+00	7.58E+00
SB 126	6.72E-03	8.53E-05	1.58E-03	1.23E-05	0.00E+00	3.24E-03	1.99E-01
SE 75	0.00E+00	4.23E-02	1.76E-02	0.00E+00	6.85E-02	0.00E+00	3.50E-03
SN 113	2.28E-02	3.87E-04	8.59E-04	1.12E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.55E+00	0.00E+00	4.80E-02	0.00E+00	0.00E+00	0.00E+00	1.52E-01
SS 90	7.66E+01	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-01
TC 59M	2.98E-09	5.16E-09	7.07E-08	0.00E+00	8.49E-08	3.10E-09	2.73E-06
TE 132	5.47E-04	2.15E-04	2.14E-04	1.18E-04	2.28E-03	0.00E+00	5.48E-03
Y 90	7.36E-05	0.00E+00	1.30E-06	0.00E+00	0.00E+00	0.00E+00	3.04E-01
ZN 65	2.28E-03	4.92E-03	2.42E-03	0.00E+00	3.47E-03	0.00E+00	1.67E-03
ZR 95	1.56E-03	3.06E-04	2.22E-04	0.00E+00	4.96E-04	0.00E+00	5.67E-01

CHILD

AG 110M	8.95E-03	5.05E-03	4.31E-03	0.00E+00	1.05E-02	0.00E+00	5.85E-01
BA 140	4.71E-02	3.45E-05	2.46E-03	0.00E+00	1.25E-05	2.25E-05	1.94E-02
BE 7	3.41E-06	4.85E-06	3.38E-06	0.00E+00	5.35E-06	0.00E+00	2.65E-04
C 14	6.91E-02	1.16E-02	1.24E-02	5.40E-03	1.29E-02	1.27E-02	1.13E-02
CE 141	1.58E-05	6.60E-06	1.05E-06	0.00E+00	3.23E-06	0.00E+00	8.01E-03
CE 144	1.44E-03	3.76E-04	6.84E-05	0.00E+00	2.32E-04	0.00E+00	9.55E-02
CO 57	0.00E+00	2.66E-04	5.75E-04	0.00E+00	0.00E+00	0.00E+00	2.12E-03
CO 58	0.00E+00	6.69E-01	2.19E+00	0.00E+00	0.00E+00	0.00E+00	3.80E+00
CO 60	0.00E+00	9.91E-02	3.12E-01	0.00E+00	0.00E+00	0.00E+00	5.34E-01
CR 51	0.00E+00	0.00E+00	4.18E-04	1.01E-04	6.63E-05	4.35E-04	2.02E-02
CS 134	1.13E+00	1.54E+00	3.48E-01	0.00E+00	5.34E-01	1.88E-01	8.10E-03
CS 137	7.71E+00	6.17E+00	9.73E-01	0.00E+00	2.24E+00	7.93E-01	3.76E-02
FE 55	1.02E+01	4.53E+00	1.50E+00	0.00E+00	0.00E+00	2.81E+00	8.17E-01
FE 59	1.42E-02	1.93E-02	1.03E-02	0.00E+00	0.00E+00	6.12E-03	1.95E-02
H 3	0.00E+00	8.64E+01	9.23E+01	4.03E+01	9.64E+01	9.47E+01	8.41E+01
HF 181	3.54E-06	1.21E-05	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I 129	4.25E-03	2.18E-03	2.08E-03	6.65E-01	4.11E-03	0.00E+00	1.07E-04
I 131	4.53E-01	3.82E-01	2.32E-01	5.38E-01	6.99E-01	0.00E+00	3.30E-02
I 132	5.39E-09	8.28E-09	4.07E-09	1.79E-07	1.41E-08	0.00E+00	9.48E-09
I 133	1.87E-03	1.94E-03	7.83E-04	1.68E-01	3.60E-03	0.00E+00	7.69E-04

TABLE VII-E-4 (CONT.)

LA 140	1.96E-05	5.74E-06	2.07E-06	0.00E+00	0.00E+00	0.00E+00	1.56E-01
LA 141	9.78E-10	1.91E-10	4.42E-11	0.00E+00	0.00E+00	0.00E+00	4.13E-05
MN 54	0.00E+00	2.82E-02	8.01E-03	0.00E+00	8.81E-03	0.00E+00	2.30E-02
MO 99	0.00E+00	9.79E-04	2.59E-04	0.00E+00	2.33E-03	0.00E+00	7.87E-04
NB 95	4.94E-04	1.61E-04	1.23E-04	0.00E+00	1.69E-04	0.00E+00	2.89E-01
NI 63	9.44E-01	4.23E-02	2.87E-02	0.00E+00	0.00E+00	0.00E+00	2.77E-03
P 32	3.45E-02	1.35E-03	1.19E-03	0.00E+00	0.00E+00	0.00E+00	7.77E-04
PR 144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU 103	7.39E-04	0.00E+00	2.54E-04	0.00E+00	1.74E-03	0.00E+00	1.56E-02
RU 106	4.60E-03	0.00E+00	5.13E-04	0.00E+00	5.80E-03	0.00E+00	5.83E-02
SB 122	7.59E-04	9.33E-06	1.97E-04	3.92E-06	0.00E+00	2.83E-04	4.86E-02
SB 124	7.67E-01	8.32E-03	2.40E-01	6.61E-04	0.00E+00	3.90E-01	3.90E+00
SB 125	2.15E+00	1.39E-02	4.02E-01	7.77E-04	0.00E+00	1.10E+00	4.18E+00
SB 126	7.10E-03	9.08E-05	2.26E-03	1.62E-05	0.00E+00	3.11E-03	1.16E-01
SE 75	0.00E+00	4.91E-02	2.73E-02	0.00E+00	7.47E-02	0.00E+00	2.24E-03
SN 113	2.61E-02	4.50E-04	1.34E-03	1.55E-04	0.00E+00	0.00E+00	0.00E+00
SR 89	2.93E+00	0.00E+00	7.46E-02	0.00E+00	0.00E+00	0.00E+00	9.22E-02
SR 90	7.35E+01	0.00E+00	1.32E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-01
TC 99M	3.16E-09	5.19E-09	9.18E-08	0.00E+00	8.41E-08	2.89E-09	2.87E-06
TE 132	6.04E-04	2.24E-04	2.89E-04	1.52E-04	2.32E-03	0.00E+00	2.19E-03
Y 90	8.44E-05	0.00E+00	2.02E-06	0.00E+00	0.00E+00	0.00E+00	1.96E-01
ZN 65	2.07E-03	4.61E-03	3.07E-03	0.00E+00	3.24E-03	0.00E+00	7.88E-04
ZR 95	1.68E-03	3.08E-04	2.93E-04	0.00E+00	4.92E-04	0.00E+00	3.13E-01

-----CUMULATIVE TOTAL-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	CUMUL TOTAL	2.08E+08	1.05E-01	1.70E-01	1.65E-01	3.25E-01	1.57E-01	1.58E-01	2.10E-01

HYDROSPHERE TRITIUM DOSE

AVERAGE INDIVIDUAL WATER CONSUMPTION = 3.0 L/DAY

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
WATER	TOTAL	2.86E+11	0.00E+00	1.82E-03	1.82E-03	1.82E-03	1.82E-03	1.82E-03	1.82E-03

TABLE VII-E-5

* * * RECREATION POPULATION DOSES * * *

LOCATION- DOWN STREAM SWIMMING

DILUTION- 7.30E+00

TRANSIT TIME- 6.70E-01 HR

SWF- 0.2

PATHWAY SHORELINE	AGE GROUP TOTAL POPUL	USAGE 4.10E+07	DOSE (PERSON-REM)		
			SKIN 1.18E-01	TOTAL BODY 1.02E-01	THYROID 1.02E-01

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

AGE GROUP	SKIN	TOTAL BODY
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ADULT

AG 110M	3.12E+00	3.09E+00
BA 140	6.64E-04	6.71E-04
BE 7	0.00E+00	0.00E+00
C 14	0.00E+00	0.00E+00
CE 141	2.93E-04	3.01E-04
CE 144	2.60E-03	2.59E-03
CO 57	6.24E-03	6.56E-03
CO 58	9.33E+00	9.20E+00
CO 60	2.85E+01	2.79E+01
CR 51	1.39E-02	1.36E-02
CS 134	1.80E+00	1.78E+00
CS 137	1.67E+01	1.65E+01
FE 55	0.00E+00	0.00E+00
FE 59	1.31E-02	1.29E-02
H 3	0.00E+00	0.00E+00
HF 181	0.00E+00	0.00E+00
I 129	4.13E-02	2.86E-02
I 131	2.86E-02	2.72E-02
I 132	4.28E-06	4.20E-06
I 133	1.21E-04	1.15E-04
LA 140	3.33E-03	3.39E-03
LA 141	2.45E-07	2.53E-07
MN 54	2.39E-01	2.35E-01
MO 99	2.60E-05	2.60E-05
NB 95	1.69E-01	1.66E-01
NI 63	0.00E+00	0.00E+00
P 32	0.00E+00	0.00E+00
PR 144	1.35E-08	1.36E-08
RU 103	6.09E-03	6.03E-03
RU 106	9.31E-03	8.96E-03
SB 122	0.00E+00	0.00E+00
SB 124	2.26E+00	2.26E+00
SB 125	3.76E+01	3.85E+01
SB 126	7.65E-03	7.86E-03
SE 75	0.00E+00	0.00E+00
SN 113	0.00E+00	0.00E+00
SR 89	2.63E-06	2.62E-06
SR 90	0.00E+00	0.00E+00
TC 99M	1.11E-06	1.12E-06
TE 132	1.82E-05	1.79E-05
Y 90	7.06E-07	6.90E-07
ZN 65	6.06E-03	6.09E-03
ZR 95	1.94E-01	1.94E-01

LOCATION- DOWN STREAM SWIMMING

DILUTION- 7.30E+00

TRANSIT TIME- 6.70E-01 HR

PATHWAY	AGE GROUP	USAGE	DOSE (PERSON-REM)		
			SKIN	TOTAL BODY	THYROID
SWIMMING	TOTAL POPUL	4.10E+07		3.41E-03	3.41E-03

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

AGE GROUP TOTAL BODY

ADULT

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.59E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.20E-04
I 131	1.41E+00
I 132	1.70E-02
I 133	5.13E-02
LA 140	8.26E-01
LA 141	4.70E-04
MN 54	2.91E-01
MO 99	3.50E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	4.75E-04
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.54E-05
TC 99M	1.67E-03
TE 132	1.93E-03
Y 90	2.28E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-E-5 (CONT.)

LOCATION- DOWN STREAM BOATING

DILUTION- 7.30E+00

TRANSIT TIME- 6.70E-01 HR

PATHWAY BOATING	AGE GROUP TOTAL POPUL	USAGE 4.10E+07	DOSE (PERSON-REM)		
			SKIN	TOTAL BODY 1.71E-03	THYROID 1.71E-03

* * *	INDIVIDUAL	ISOTOPE	PERCENT	CONTRIBUTION	* * *
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AGE GROUP	TOTAL BODY
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ADULT

AG 110M	5.02E+00
BA 140	1.83E-02
BE 7	0.00E+00
C 14	0.00E+00
CE 141	3.27E-03
CE 144	3.66E-03
CO 57	8.75E-03
CO 58	4.98E+01
CO 60	6.34E+00
CR 51	1.74E-01
CS 134	8.59E-01
CS 137	1.45E+00
FE 55	3.50E-03
FE 59	1.19E-01
H 3	0.00E+00
HF 181	0.00E+00
I 129	3.20E-04
I 131	1.41E+00
I 132	1.70E-02
I 133	5.13E-02
LA 140	8.26E-01
LA 141	4.70E-04
MN 54	2.91E-01
MO 99	3.50E-03
NB 95	1.94E+00
NI 63	0.00E+00
P 32	1.75E-05
PR 144	4.75E-04
RU 103	5.66E-02
RU 106	9.22E-03
SB 122	0.00E+00
SB 124	1.55E+01
SB 125	1.44E+01
SB 126	2.56E-01
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	6.38E-04
SR 90	9.54E-05
TC 99M	1.67E-03
TE 132	1.93E-03
Y 90	2.28E-03
ZN 65	1.03E-02
ZR 95	1.35E+00

TABLE VII-E-6

* * * DOSE TO BIOTA * * *

MRADS PER YEAR

BIOTA	DILUTION- 1.00E+00		TRANSIT TIME- 0.00E+00 HR
	INTERNAL	EXTERNAL	TOTAL
FISH	5.99E-01	8.01E-01	1.40E+00
INVERTEBRATE	4.79E-01	1.60E+00	2.08E+00
ALGAE	1.31E+00	5.33E-03	1.32E+00
MUSKRAT	1.66E+00	5.33E-01	2.20E+00
RACCOON	4.82E-01	3.98E-01	8.80E-01
HERON	3.77E+00	5.32E-01	4.31E+00
DUCK	1.57E+00	7.98E-01	2.37E+00

* * * INDIVIDUAL ISOTOPE PERCENT CONTRIBUTION * * *

BIOTA	INTERNAL	
FISH		
	AG 110M	1.05E-02
	BA 140	2.09E-03
	BE 7	0.00E+00
	C 14	1.54E+00
	CE 141	8.35E-05
	CE 144	1.07E-03
	CO 57	1.55E-03
	CO 58	2.40E+00
	CO 60	3.11E-01
	CR 51	3.82E-02
	CS 134	2.92E+00
	CS 137	1.47E+01
	FE 55	7.29E-01
	FE 59	1.97E-02
	H 3	9.40E-01
	HF 181	0.00E+00
	I 129	2.58E-04
	I 131	1.10E-01
	I 132	8.42E-04
	I 133	7.47E-03
	LA 140	7.13E-02
	LA 141	4.78E-03
	MN 54	7.54E-02
	MO 99	6.04E-04
	NB 95	7.20E+01
	NI 63	3.70E-03
	P 32	3.63E+00
	PR 144	2.49E-02
	RU 103	1.52E-03
	RU 106	6.66E-03
	SB 122	0.00E+00
	SB 124	4.03E-02
	SB 125	3.98E-02
	SB 126	0.00E+00
	SE 75	0.00E+00
	SN 113	0.00E+00
	SR 89	4.47E-02
	SR 90	1.15E-01
	TC 99M	2.87E-04
	TE 132	2.30E-02
	Y 90	7.90E-02
	ZN 65	1.39E-02
	ZR 95	1.44E-02

TABLE VII-E-6 (CONT.)

INVERTEBRATE

AG 110M	4.41E+00
BA 140	1.31E-01
BE 7	0.00E+00
C 14	3.81E+00
CE 141	1.04E-01
CE 144	1.34E+00
CO 57	7.77E-03
CO 58	1.20E+01
CO 60	1.56E+00
CR 51	4.77E-01
CS 134	1.83E+00
CS 137	9.22E+00
FE 55	2.92E+01
FE 59	7.88E-01
H 3	1.17E+00
HF 181	0.00E+00
I 129	1.07E-04
I 131	4.60E-02
I 132	3.51E-04
I 133	3.11E-03
LA 140	3.56E+00
LA 141	2.39E-01
MN 54	2.12E+01
MO 99	7.55E-04
NB 95	3.00E-01
NI 63	4.63E-03
P 32	9.07E-01
PR 144	1.25E+00
RU 103	5.68E-02
RU 106	2.50E-01
SB 122	0.00E+00
SB 124	5.04E-01
SB 125	4.97E-01
SB 126	0.00E+00
SE 75	0.00E+00
SN 113	0.00E+00
SR 89	1.86E-01
SR 90	4.79E-01
TC 95M	1.20E-04
TE 132	4.39E-01
Y 90	3.95E+00
ZN 65	8.66E-02
ZR 95	3.65E-02

ALGAE

AG 110M	4.19E-01
BA 140	1.19E-01
BE 7	0.00E+00
C 14	7.03E-01
CE 141	1.52E-01
CE 144	1.95E+00
CO 57	2.84E-03
CO 58	4.38E+00
CO 60	5.68E-01
CR 51	3.49E-01
CS 134	3.33E-01
CS 137	1.68E+00
FE 55	3.33E+00
FE 59	8.99E-02
H 3	4.29E-01
HF 181	0.00E+00
I 129	3.14E-04
I 131	1.34E-01
I 132	1.02E-03
I 133	9.08E-03

TABLE VII-7-6 (CONT.)

LA	140	6.50E+00
LA	141	4.36E-01
MN	54	8.61E-01
MO	99	2.76E-02
NB	95	8.76E-01
NI	63	8.45E-04
P	32	8.28E+00
PR	144	2.28E+00
RU	103	1.38E-01
RU	106	6.07E-01
SB	122	0.00E+00
SB	124	2.76E+01
SB	125	2.72E+01
SB	126	0.00E+00
SE	75	0.00E+00
SN	113	0.00E+00
SR	89	3.40E-01
SR	90	8.75E-01
TC	99M	3.49E-04
TE	132	2.63E-03
Y	90	7.21E+00
ZN	65	6.33E-02
ZR	95	1.99E+00

MUSKRAT

AG	110M	5.94E-03
BA	140	1.24E-02
BE	7	0.00E+00
C	14	8.57E-01
CE	141	5.88E-05
CE	144	4.11E-03
CO	57	1.19E-03
CO	58	3.08E+00
CO	60	4.36E-01
CR	51	1.22E-02
CS	134	7.04E+00
CS	137	2.87E+01
FE	55	2.26E+01
FE	59	8.31E-02
H	3	2.76E+00
HF	181	0.00E+00
I	129	1.33E-03
I	131	2.46E-01
I	132	2.54E-05
I	133	1.05E-03
LA	140	1.69E-04
LA	141	7.76E-07
MN	54	5.12E-01
MO	99	4.67E-03
NB	95	7.36E-04
NI	63	2.20E-02
P	32	9.55E+00
PR	144	3.02E-07
RU	103	4.61E-03
RU	106	1.49E-02
SB	122	0.00E+00
SB	124	3.28E+00
SB	125	5.41E+00
SB	126	0.00E+00
SE	75	0.00E+00
SN	113	0.00E+00
SR	89	5.73E-01
SR	90	1.44E+01
TC	99M	1.88E-06
TE	132	3.42E-04
Y	90	2.13E-04

TABLE VII-E-6 (CONT.)

ZN 65 4.01E-01
ZR 95 2.38E-03

RACCOON

AG 110M 1.73E-02
BA 140 3.28E-03
BE 7 0.00E+00
C 14 9.75E-01
CE 141 8.69E-06
CE 144 5.90E-04
CO 57 7.83E-04
CO 58 2.33E+00
CO 60 3.28E-01
CR 51 4.52E-03
CS 134 1.01E+01
CS 137 3.71E+01
FE 55 4.16E+01
FE 59 1.89E-01
H 3 1.59E+00
HF 181 0.00E+00
I 129 4.55E-04
I 131 1.15E-02
I 132 1.39E-06
I 133 8.17E-05
LA 140 2.24E-05
LA 141 8.94E-08
MN 54 3.62E+00
MO 99 2.79E-05
NB 95 6.80E-05
NI 63 2.53E-02
P 32 2.20E-01
PR 144 3.47E-08
RU 103 4.71E-04
RU 106 1.30E-03
SB 122 0.00E+00
SB 124 1.48E-02
SB 125 2.46E-02
SB 126 0.00E+00
SE 75 0.00E+00
SN 113 0.00E+00
SR 89 6.59E-02
SR 90 1.66E+00
TC 99M 1.42E-07
TE 132 1.40E-02
Y 90 2.45E-05
ZN 65 1.56E-01
ZR 95 1.13E-05

HERON

AG 110M 5.18E-05
BA 140 6.55E-05
BE 7 0.00E+00
C 14 4.93E-01
CE 141 8.68E-09
CE 144 5.90E-07
CO 57 1.96E-04
CO 58 5.82E-01
CO 60 8.20E-02
CR 51 4.52E-04
CS 134 2.01E+01
CS 137 7.41E+01
FE 55 1.30E+00
FE 59 5.91E-03
H 3 1.59E+00
HF 181 0.00E+00
I 129 1.37E-03

TABLE VII-E-6 (CONT.)

I	131	3.46E-02
I	132	4.17E-06
I	133	2.45E-04
LA	140	5.59E-07
LA	141	2.23E-09
MN	54	1.61E-02
MO	99	2.79E-05
NB	95	2.04E-02
NI	63	2.53E-02
P	32	1.10E+00
PR	144	8.67E-10
RU	103	1.57E-05
RU	106	4.33E-05
SB	122	0.00E+00
SB	124	1.48E-03
SB	125	2.46E-03
SB	126	0.00E+00
SE	75	0.00E+00
SN	113	0.00E+00
SR	89	1.98E-02
SR	90	4.98E-01
TC	99M	4.26E-07
TE	132	9.19E-04
Y	90	6.11E-07
ZN	65	3.12E-02
ZR	95	5.57E-06

DUCK

AG	110M	4.84E-03
BA	140	1.18E-02
BE	7	0.00E+00
C	14	9.10E-01
CE	141	6.14E-05
CE	144	4.36E-03
CO	57	1.12E-03
CO	58	2.52E+00
CO	60	3.61E-01
CR	51	9.27E-03
CS	134	6.17E+00
CS	137	2.78E+01
FE	55	2.40E+01
FE	59	7.28E-02
H	3	2.93E+00
HF	181	0.00E+00
I	129	6.72E-03
I	131	1.42E-01
I	132	1.51E-05
I	133	1.05E-03
LA	140	1.61E-04
LA	141	8.22E-07
MN	54	4.00E-01
MO	99	4.82E-03
NB	95	6.18E-04
NI	63	2.33E-02
P	32	1.01E+01
PR	144	3.20E-07
RU	103	4.23E-03
RU	106	1.57E-02
SB	122	0.00E+00
SB	124	3.03E+00
SB	125	5.17E+00
SB	126	0.00E+00
SE	75	0.00E+00
SN	113	0.00E+00
SR	89	6.08E-01
SR	90	1.53E+01

TABLE VII-E-6 (CONT.)

TC	99M	1.91E-06
TE	132	2.13E-04
Y	9C	2.26E-04
ZM	65	3.20E-01
ZR	95	2.09E-03