

FLORIDA POWER & LIGHT COMPANY

ST. LUCIE PLANT UNITS NO. 1 & 2

LICENSE NUMBERS DPR-67 & NPF-16

COMBINED ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

FOR THE PERIOD

JANUARY 1, 2008 THROUGH DECEMBER 31, 2008

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EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION

1. Regulatory Limits

1.1 For Liquid Waste Effluents

- A. The concentration of radioactive material released from the site shall be limited to ten times the concentrations specified in 10 CFR Part 20 Appendix B, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to $2E-4$ micro-Curies/ml total activity.
- B. The dose or dose commitment to a MEMBER OF THE PUBLIC from radioactive material in liquid effluents released, from each reactor unit, to UNRESTRICTED AREAS shall be limited to:
During any calendar quarter to ≤ 1.5 mrems to the Total Body and
to ≤ 5 mrems to any organ, and
During any calendar year to ≤ 3 mrems to the Total Body and
to ≤ 10 mrems to any organ.

1.2 For Gaseous Waste Effluents:

- A. The dose rate in UNRESTRICTED AREAS due to radioactive materials released in gaseous effluents from the site shall be limited to:
For Noble Gases: ≤ 500 mrems/yr to the total body and
 ≤ 3000 mrems/yr to the skin, and
For Iodine-131, Iodine-133, Tritium, and all radionuclides in particulate form with half-lives greater than 8 days:
 ≤ 1500 mrems/yr to any organ.
- *B. The air dose due to noble gases released in gaseous effluents from each unit, to areas at and beyond the SITE BOUNDARY shall be limited to the following:
During any calendar quarter, to ≤ 5 mrads for gamma radiation, and
 ≤ 10 mrads for beta radiation and,
During any calendar year, to ≤ 10 mrads for gamma radiation and
 ≤ 20 mrads for beta radiation.
- *C. The dose to a MEMBER OF THE PUBLIC from Iodine-131, Iodine-133, Tritium, and all radionuclides in particulate form, with half-lives > 8 Days in gaseous effluents released, from each unit to areas at and beyond the site boundary, shall be limited to the following:
During any calendar quarter to ≤ 7.5 mrem to any organ, and
During any calendar year to ≤ 15 mrem to any organ.
- * The calculated doses contained in an annual report shall not apply to any ODCM Control. The reported values are based on actual release conditions instead of historical conditions that the ODCM Control dose calculations are based on. Therefore, the ODCM Control dose limits are included in Item 1 of the report for information only.

EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION (CONTINUED)

2. Effluent Concentration Limits(ECL)

Water: Ten times the 10 CFR Part 20, Appendix B, Table 2, Column 2, except for entrained or dissolved noble gases as described in 1.1.A of this report.

Air: Release concentrations are limited to dose rate limits described in 1.2.A. of this report.

3. Average Energy of fission and activation gases in gaseous effluents is not applicable.

4. Measurements and approximations of total radioactivity

Where alpha, tritium, and listed nuclides are shown as zero Curies released, this should be interpreted as "no activity was detected on the samples using the ODCM Control analyses techniques to achieve required Lower Limit of Detection (LLD) sensitivity for radioactive effluents".

A summary of liquid effluent accounting methods is described in Table 3.1.

A summary of gaseous effluent accounting methods is described in Table 3.2.

4.1 Estimate of Errors

Error Topic	LIQUID		GASEOUS	
	Avg %	Max %	Avg %	Max %
Release Point Mixing	2	5	NA	NA
Sampling	1	5	2	5
Sample Preparation	1	5	1	5
Sample Analysis	3	10	3	10
Release Volume	2	5	4	15
Total Percent	9	30	10	35

The predictability of error for radioactive releases can only be applied to nuclides that are predominant in sample spectrums. Nuclides that are near background relative to the predominant nuclides in a given sample could easily have errors greater than the above listed maximums.

EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION (CONTINUED)

4. Measurements and Approximations of Total Radioactivity (continued)

4.2 Methods of Analyses

TABLE 3.1

RADIOACTIVE LIQUID EFFLUENT SAMPLING AND ANALYSIS

Liquid Source	Sampling Frequency	Type of Analysis	Method of Analysis
Monitor Tank Releases	Each Batch	Principal Gamma Emitters	p.h.a.
	Monthly Composite	Tritium Gross Alpha	L.S. AIC
	Quarterly Composite	Sr-89, Sr-90, Fe-55, Ni-63 & C-14	C.S.
Continuous Releases	Daily Grab Samples	Principal Gamma Emitters & I-131 for 4/M Composite Analysis	p.h.a.
		Dissolved & Entrained Gases One Batch/ Month	p.h.a.
		Tritium Composite Monthly	L.S.
		Alpha Composite Monthly	AIC
		Sr-89, Sr-90, Fe-55, Ni-63 & C-14 Composite Quarterly	C.S.

p.h.a.- Gamma Spectrum Pulse Height Analysis using Germanium Detectors. All peaks are identified and quantified.

L.S.- Liquid Scintillation Counting

C.S.- Chemical Separation

AIC - Air Ion Chamber

4/M - Four per Month

EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION (CONTINUED)

4. Measurements and Approximations of Total Radioactivity (continued)

4.2 Methods of Analyses (continued)

TABLE 3.2

RADIOACTIVE GASEOUS WASTE SAMPLING AND ANALYSIS

Gaseous Source	Sampling Frequency	Type of Analysis	Method of Analysis
Waste Gas Decay Tank Releases	Each Batch	Principal Gamma Emitters	p.h.a.
Containment Purge Releases	Each Purge	Principal Gamma Emitters	p.h.a.
		Tritium	L.S.
Plant Vent	4/M	Principal Gamma Emitters Tritium	p.h.a. L.S.
	Monthly Composite	Particulate Gross Alpha	AIC
	Quarterly Composite	Particulate Sr-89 & Sr-90, Fe-55,	C.S.

p.h.a.- Gamma Spectrum Pulse Height Analysis using Germanium Detectors. All peaks are identified and quantified.

L.S.- Liquid Scintillation Counting

C.S.- Chemical Separation

AIC - Air Ion Chamber

4/M - Four per Month

EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION (CONTINUED)

5. Batch Releases

A. Liquid	Unit 1	Unit 2	Eng. Unit
1. Number of batch releases	45	45	
2. Total time period for batch releases	28,265	28,265	minutes
3. Maximum time period for a batch release	1,345	1,345	minutes
4. Average time period for a batch release	628	628	minutes
5. Minimum time period for a batch release	187	187	minutes
6. Average dilution stream flow during the period	939,208	939,208	gpm

All liquid releases are summarized in Tables

B. Gaseous	Unit 1	Unit 2	Eng. Unit
1. Number of batch releases	13	101	
2. Total time period for batch releases	2,772	7,285	minutes
3. Maximum time period for a batch release	720	600	minutes
4. Average time period for a batch release	213	72	minutes
5. Minimum time period for a batch release	25	30	minutes

All gaseous waste releases are summarized in Tables

6. Unplanned Releases

A. Liquid	Unit 1	Unit 2	Eng. Unit
1. Number of releases	0	0	
2. Total activity of releases	0.00E+00	0.00E+00	Curies

B. Gaseous	Unit 1	Unit 2	Eng. Unit
1. Number of releases	0	0	
2. Total activity of releases	0.00E+00	0.00E+00	Curies

EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION (CONTINUED)

7. Assessment of radiation dose from radioactive effluents to MEMBERS OF THE PUBLIC due to their activities inside the SITE BOUNDARY assumes the VISITOR onsite for 6 hours per day for 312 days per year at a distance of 1.6 kilometers in the South East Sector. The VISITOR received exposure from each of the two reactors on the Site. Actual Met Data was used to calculate Visitor Dose for Calendar Year 2008.

VISITOR DOSE RESULTS FOR CALENDAR YEAR 2008 were:

<u>NOBLE GAS</u>	<u>DOSE</u> <u>mrad</u>	<u>Gas Particulate</u> <u>& Iodine Dose</u>	<u>Dose</u> <u>mrem</u>
Gamma Air Dose	6.25E-04	Bone	2.23E-06
Beta Air Dose	3.22E-04	Liver	6.15E-04
		Thyroid	7.84E-04
		Kidney	6.14E-04
		Lung	6.26E-04
		GI-LLI	6.16E-04
		Total Body	9.75E-04

8. Offsite Dose Calculation Manual(ODCM) Revision(s):
C-200, Offsite Dose Calculation Manual was revised four times during 2008. A summary of the revisions are listed below:

- Revision 31B - Revision to correct typo on page 227
- Revision 31A - Revision to reflect title change of Chemistry procedure COP-05.02
- Revision 31 - Revision to reflect new fleet GWPP procedure, EV-AA-01, and add six perimeter wells to the GWPP
- Revision 30 - Added surveillance requirements for the Cask Handling Facility exhaust vent (ISFSI project)

9. Solid Waste and Irradiated Fuel Shipments:
No irradiated fuel shipments were made from the site.

Common Solid waste from St. Lucie Units 1 and 2 were shipped jointly. A tabulated summation of these shipments is provided in this report as Table 3.9.

10. Process Control Program (PCP) Revisions:

There were no changes during the reporting interval.

11. Major Changes to Radioactive Liquid, Gaseous and Solid Waste Treatment Systems:

There were no changes during the reporting interval.

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TABLE 3.3-1 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR#1	QTR#2
A. Fission and Activation Products			
1. Total Release - (Not including Tritium, Gases, and Alpha)	Ci	5.59E-03	1.04E-03
2. Average Diluted Concentration During Period	uCi/ml	1.10E-11	2.04E-12
B. Tritium			
1. Total Release	Ci	4.06E+01	3.90E+01
2. Average Diluted Concentration During Period	uCi/ml	8.01E-08	7.69E-08
C. Dissolved and Entrained Gases			
1. Total Release	Ci	1.95E-03	5.45E-04
2. Average Diluted Concentration During Period	uCi/ml	3.84E-12	1.08E-12
D. Gross Alpha Radioactivity			
1. Total Release	Ci	0.00E+00	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	8.54E+05	1.04E+06
F. Volume of Dilution Water Used During Period			
	Liters	5.07E+11	5.07E+11

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TABLE 3.3-1 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES (CONTINUED)

	UNIT	QTR#3	QTR#4
A. Fission and Activation Products			
1. Total Release - (Not including Tritium, Gases, and Alpha)	Ci	1.90E-03	5.76E-03
2. Average Diluted Concentration During Period	uCi/ml	4.43E-12	1.34E-11
B. Tritium			
1. Total Release	Ci	4.82E+01	4.26E+01
2. Average Diluted Concentration During Period	uCi/ml	1.13E-07	9.87E-08
C. Dissolved and Entrained Gases			
1. Total Release	Ci	9.76E-03	1.34E-02
2. Average Diluted Concentration During Period	uCi/ml	2.28E-11	3.11E-11
D. Gross Alpha Radioactivity			
1. Total Release	Ci	0.00E+00	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	1.02E+06 a	1.19E+06 b
F. Volume of Dilution Water Used During Period			
	Liters	4.28E+11	4.31E+11

a An additional 1.67E+8 liters was discharged from 2 pond releases

b An additional 3.69E+7 liters was discharged from 2 pond releases

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TABLE 3.3-2 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR#1	QTR#2
A. Fission and Activation Products			
1. Total Release - (Not including Tritium, Gases, and Alpha)	Ci	5.59E-03	1.04E-03
2. Average Diluted Concentration During Period	uCi/ml	1.10E-11	2.04E-12
B. Tritium			
1. Total Release	Ci	4.06E+01	3.90E+01
2. Average Diluted Concentration During Period	uCi/ml	8.01E-08	7.69E-08
C. Dissolved and Entrained Gases			
1. Total Release	Ci	1.95E-03	5.45E-04
2. Average Diluted Concentration During Period	uCi/ml	3.84E-12	1.08E-12
D. Gross Alpha Radioactivity			
1. Total Release	Ci	0.00E+00	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	8.54E+05	1.04E+06
F. Volume of Dilution Water Used During Period			
	Liters	5.07E+11	5.07E+11

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TABLE 3.3-2 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES (CONTINUED)

	UNIT	QTR#3	QTR#4
A. Fission and Activation Products			
1. Total Release - (Not including Tritium, Gases, and Alpha)	Ci	1.90E-03	5.76E-03
2. Average Diluted Concentration During Period	uCi/ml	4.43E-12	8.40E-12
B. Tritium			
1. Total Release	Ci	4.82E+01	4.26E+01
2. Average Diluted Concentration During Period	uCi/ml	1.13E-07	9.87E-08
C. Dissolved and Entrained Gases			
1. Total Release	Ci	9.76E-03	1.34E-02
2. Average Diluted Concentration During Period	uCi/ml	2.28E-11	3.11E-11
D. Gross Alpha Radioactivity			
1. Total Release	Ci	0.00E+00	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	1.02E+06	1.19E+06
F. Volume of Dilution Water Used During Period			
	Liters	4.28E+11	4.31E+11

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TABLE 3.4-1 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
Na-24	Ci	0.00E+00	0.00E+00	2.17E-06	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	8.72E-05	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	5.97E-05	4.98E-06
Fe-55	Ci	0.00E+00	0.00E+00	2.41E-03	3.28E-04
Mn-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-57	Ci	0.00E+00	0.00E+00	1.81E-05	0.00E+00
Co-58	Ci	0.00E+00	0.00E+00	2.17E-03	1.26E-04
Fe-59	Ci	0.00E+00	0.00E+00	2.22E-05	0.00E+00
Co-60	Ci	0.00E+00	0.00E+00	3.18E-04	1.08E-04
Zn-65	Ci	0.00E+00	0.00E+00	1.10E-05	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	1.11E-04	0.00E+00
Nb-95	Ci	0.00E+00	0.00E+00	1.89E-04	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00	3.08E-05	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	3.01E-05	3.34E-06
Tc-99m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00	2.29E-06	0.00E+00
Sb-122	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00	5.65E-06	1.93E-06
Sb-125	Ci	0.00E+00	0.00E+00	1.18E-04	4.49E-04

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TABLE 3.4-1 LIQUID EFFLUENTS (CONTINUED)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
Te-129	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00	0.00E+00	2.36E-06
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00	9.55E-07	0.00E+00
Cs-137	Ci	0.00E+00	0.00E+00	1.01E-05	1.34E-05
Cs-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	Ci	0.00E+00	0.00E+00	5.59E-03	1.04E-03
Ar-41	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133	Ci	0.00E+00	0.00E+00	1.95E-03	5.43E-04
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	0.00E+00	0.00E+00	0.00E+00	1.89E-06

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TABLE 3.4-1 LIQUID EFFLUENTS (CONTINUED)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
Na-24	Ci	0.00E+00	0.00E+00	1.78E-06	3.87E-06
Cr-51	Ci	0.00E+00	0.00E+00	0.00E+00	2.80E-04
Mn-54	Ci	0.00E+00	0.00E+00	2.23E-05	6.75E-05
Fe-55	Ci	0.00E+00	0.00E+00	6.72E-04	2.14E-03
Mn-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E 00
Co-57	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E 00
Co-58	Ci	0.00E+00	0.00E+00	1.74E-04	1.17E-03
Fe-59	Ci	0.00E+00	0.00E+00	0.00E+00	1.46E-04
Co-60	Ci	0.00E+00	0.00E+00	2.99E-04	8.35E-04
Zn-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	6.23E-06	7.35E-06
Nb-95	Ci	0.00E+00	0.00E+00	8.50E-06	4.28E-05
Zr-97	Ci	0.00E+00	0.00E+00	4.81E-05	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	1.80E-05	3.39E-06
Tc-99m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00	1.37E-04	2.20E-04
Sn-113	Ci	0.00E+00	0.00E+00	0.00E+00	1.01E-05
Sb-122	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00	0.00E+00	1.67E-04
Sb-125	Ci	0.00E+00	0.00E+00	5.02E-04	6.43E-04

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TABLE 3.4-1 LIQUID EFFLUENTS (CONTINUED)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
Te-129	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00	0.00E+00	3.51E-06
I-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	Ci	0.00E+00	0.00E+00	5.89E-06	6.44E-06
Cs-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	Ci	0.00E+00	0.00E+00	0.00E+00	1.24E-05
La-140	Ci	0.00E+00	0.00E+00	0.00E+00	1.11E-05
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	Ci	0.00E+00	0.00E+00	1.90E-03	5.76E-03
Ar-41	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	5.40E-05	1.92E-04
Xe-133	Ci	0.00E+00	0.00E+00	9.70E-03	1.31E-02
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	0.00E+00	0.00E+00	3.85E-06	9.69E-05
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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TABLE 3.4-2 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
Na-24	Ci	0.00E+00	0.00E+00	2.17E-06	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	8.72E-05	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	5.97E-05	4.98E-06
Fe-55	Ci	0.00E+00	0.00E+00	2.41E-03	3.28E-04
Mn-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-57	Ci	0.00E+00	0.00E+00	1.81E-05	0.00E+00
Co-58	Ci	0.00E+00	0.00E+00	2.17E-03	1.26E-04
Fe-59	Ci	0.00E+00	0.00E+00	2.22E-05	0.00E+00
Co-60	Ci	0.00E+00	0.00E+00	3.18E-04	1.08E-04
Zn-65	Ci	0.00E+00	0.00E+00	1.10E-05	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	1.11E-04	0.00E+00
Nb-95	Ci	0.00E+00	0.00E+00	1.89E-04	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00	3.08E-05	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	3.01E-05	3.34E-06
Tc-99m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00	2.29E-06	0.00E+00
Sb-122	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00	5.65E-06	1.93E-06
Sb-125	Ci	0.00E+00	0.00E+00	1.18E-04	4.49E-04

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TABLE 3.4-2 LIQUID EFFLUENTS (CONTINUED)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
Te-129	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00	0.00E+00	2.36E-06
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00	9.55E-07	0.00E+00
Cs-137	Ci	0.00E+00	0.00E+00	1.01E-05	1.34E-05
Cs-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	Ci	0.00E+00	0.00E+00	5.59E-03	1.04E-03
Ar-41	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133	Ci	0.00E+00	0.00E+00	1.95E-03	5.43E-04
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	0.00E+00	0.00E+00	0.00E+00	1.89E-06

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TABLE 3.4-2 LIQUID EFFLUENTS (CONTINUED)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
Na-24	Ci	0.00E+00	0.00E+00	1.78E-06	3.87E-06
Cr-51	Ci	0.00E+00	0.00E+00	0.00E+00	2.80E-04
Mn-54	Ci	0.00E+00	0.00E+00	2.23E-05	6.75E-05
Fe-55	Ci	0.00E+00	0.00E+00	6.72E-04	2.14E-03
Mn-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-57	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	Ci	0.00E+00	0.00E+00	1.74E-04	1.17E-03
Fe-59	Ci	0.00E+00	0.00E+00	0.00E+00	1.46E-04
Co-60	Ci	0.00E+00	0.00E+00	2.99E-04	8.35E-04
Zn-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	6.23E-06	7.35E-06
Nb-95	Ci	0.00E+00	0.00E+00	8.50E-06	4.28E-05
Zr-97	Ci	0.00E+00	0.00E+00	4.81E-05	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	1.80E-05	3.39E-06
Tc-99m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00	1.37E-04	2.20E-04
Sn-113	Ci	0.00E+00	0.00E+00	0.00E+00	1.01E-05
Sb-122	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00	0.00E+00	1.67E-04
Sb-125	Ci	0.00E+00	0.00E+00	5.02E-04	6.43E-04

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TABLE 3.4-2 LIQUID EFFLUENTS (CONTINUED)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
Te-129	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00	0.00E+00	3.51E-06
I-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	Ci	0.00E+00	0.00E+00	5.89E-06	6.44E-06
Cs-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	Ci	0.00E+00	0.00E+00	0.00E+00	1.24E-05
La-140	Ci	0.00E+00	0.00E+00	0.00E+00	1.11E-05
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	Ci	0.00E+00	0.00E+00	1.90E-03	5.76E-03
Ar-41	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	5.40E-05	1.92E-04
Xe-133	Ci	0.00E+00	0.00E+00	9.70E-03	1.31E-02
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	0.00E+00	0.00E+00	3.85E-06	9.69E-05
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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TABLE 3.5-1
LIQUID EFFLUENTS - DOSE SUMMATION

AGE GROUP: ADULT

LOCATION: ANY ADULT

FISH AND SHELLFISH

<u>ORGAN</u>	<u>DOSE mrem</u>
Bone	1.71E+00
Liver	7.79E+00
Thyroid	1.61E-01
Kidney	1.75E-01
Lung	8.99E+00
GI-LLI	5.18E+00
Total Body	2.20E+00

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TABLE 3.5-2
LIQUID EFFLUENTS - DOSE SUMMATION

AGE GROUP: ADULT

LOCATION: ANY ADULT

FISH AND SHELLFISH

<u>ORGAN</u>	<u>DOSE mrem</u>
Bone	1.71E+00
Liver	7.79E+00
Thyroid	1.61E-01
Kidney	1.75E-01
Lung	8.99E+00
GI-LLI	5.18E+00
Total Body	2.20E+00

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TABLE 3.6-1 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR#1	QTR#2
A. Fission and Activation Gases			
1. Total Release	Ci	3.05E+00	1.62E+00
2. Average Release Rate For Period	uCi/sec	3.87E-01	2.06E-01
B. Iodines			
1. Total Iodine-131	Ci	0.00E+00	0.00E+00
2. Average Release Rate For Period	uCi/sec	0.00E+00	0.00E+00
C. Particulates			
1. Particulates (Half Life > 8 days)	Ci	1.84E-06	8.91E-06
2. Average Release Rate For Period	uCi/sec	2.34E-07	1.13E-06
3. Gross Alpha Radioactivity	Ci	0.00E+00	0.00E+00
D. Tritium			
1. Total Release	Ci	0.00E+00	4.64E+00
2. Average Release Rate For Period	uCi/sec	0.00E+00	5.90E-01

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TABLE 3.6-1 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES (CONTINUED)

	UNIT	QTR#3	QTR#4
A. Fission and Activation Gases			
1. Total Release	Ci	0.00E+00	3.21E+00
2. Average Release Rate For Period	uCi/sec	0.00E+00	4.08E-01
B. Iodines			
1. Total Iodine-131	Ci	0.00E+00	1.20E-05
2. Average Release Rate For Period	uCi/sec	0.00E+00	1.53E-06
C. Particulates			
1. Particulates (Half Life > 8 days)	Ci	2.81E-04	2.66E-06
2. Average Release Rate For Period	uCi/sec	3.57E-05	3.39E-07
3. Gross Alpha Radioactivity	Ci	2.68E-07	5.40E-08
D. Tritium			
1. Total Release	Ci	3.26E+01	2.73E+00
2. Average Release Rate For Period	uCi/sec	4.14E+00	3.47E-01

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TABLE 3.6-2 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR#1	QTR#2
A. Fission and Activation Gases			
1. Total Release	Ci	3.94E-01	1.40E+00
2. Average Release Rate For Period	uCi/sec	5.01E-02	1.78E-01
B. Iodines			
1. Total Iodine-131	Ci	1.37E-05	6.20E-06
2. Average Release Rate For Period	uCi/sec	1.74E-06	7.89E-07
C. Particulates			
1. Particulates (Half Life > 8 days)	Ci	1.79E-06	0.00E+00
2. Average Release Rate For Period	uCi/sec	2.28E-07	0.00E+00
3. Gross Alpha Radioactivity	Ci	0.00E+00	0.00E+00
D. Tritium			
1. Total Release	Ci	4.30E-02	3.52E+00
2. Average Release Rate For Period	uCi/sec	5.47E-03	4.48E-01

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TABLE 3.6-2 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES (CONTINUED)

	UNIT	QTR#3	QTR#4
A. Fission and Activation Gases			
1. Total Release	Ci	2.53E-01	2.42E-01
2. Average Release Rate For Period	uCi/sec	3.22E-02	3.07E-02
B. Iodines			
1. Total Iodine-131	Ci	4.86E-06	6.63E-05
2. Average Release Rate For Period	uCi/sec	6.18E-07	8.43E-06
C. Particulates			
1. Particulates (Half Life > 8 days)	Ci	1.75E-06	1.62E-06
2. Average Release Rate For Period	uCi/sec	2.23E-07	2.06E-07
3. Gross Alpha Radioactivity	Ci	1.37E-07	5.76E-08
D. Tritium			
1. Total Release	Ci	1.18E+01	5.62E-01
2. Average Release Rate For Period	uCi/sec	1.50E+00	7.14E-02

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TABLE 3.7-1 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
1. Fission Gases					
Ar-41	Ci	2.72E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-127	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133	Ci	0.00E+00	0.00E+00	2.76E-02	0.00E+00
Xe-135m	Ci	0.00E+00	1.62E+00	0.00E+00	0.00E+00
Xe-135	Ci	2.99E-01	0.00E+00	6.64E-05	0.00E+00
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total for Period	Ci	3.02E+00	1.62E+00	2.77E-02	0.00E+00
2. Iodines					
I-131	Ci	0.00E+00	0.00E+00		
I-132	Ci	0.00E+00	0.00E+00		
I-133	Ci	0.00E+00	0.00E+00		
I-134	Ci	0.00E+00	0.00E+00		
I-135	Ci	0.00E+00	0.00E+00		
Total for Period	Ci	0.00E+00	0.00E+00		
3. Particulates (> 8 Days)					
Cr-51	Ci	0.00E+00	0.00E+00		
Mn-54	Ci	0.00E+00	0.00E+00		
Fe-55	Ci	0.00E+00	0.00E+00		
Co-57	Ci	0.00E+00	0.00E+00		
Co-58	Ci	0.00E+00	0.00E+00		
Fe-59	Ci	0.00E+00	0.00E+00		
Co-60	Ci	0.00E+00	5.45E-06		
Zn-65	Ci	0.00E+00	0.00E+00		
Zr-95	Ci	0.00E+00	0.00E+00		
Nb-95	Ci	0.00E+00	0.00E+00		

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TABLE 3.7-1 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES (CONTINUED)

Nuclides Released	Unit	Continuous Mode	
		QTR#1	QTR#2
3. Particulates (> 8 Days) (continued)			
Sr-89	Ci	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00
Sb-125	Ci	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00
Cs-137	Ci	1.84E-06	3.46E-06
Ba-140	Ci	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00
Total for Period	Ci	1.84E-06	8.91E-06
4. Particulates (< 8 Days)			
Mn-56	Ci	0.00E+00	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00
Rb-89	Ci	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00
Tc-99m	Ci	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00
Sb-122	Ci	0.00E+00	0.00E+00
Te-129	Ci	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00
Cs-138	Ci	0.00E+00	0.00E+00
La-140	Ci	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	0.00E+00

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TABLE 3.7-1 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES (CONTINUED)

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
1. Fission Gases					
Ar-41	Ci	0.00E+00	0.00E+00	0.00E+00	3.17E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-127	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	6.19E-04
Xe-133	Ci	0.00E+00	0.00E+00	0.00E+00	4.03E-02
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	0.00E+00	0.00E+00	0.00E+00	1.25E-04
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	0.00E+00	0.00E+00	3.21E+00
2. Iodines					
I-131	Ci	0.00E+00	1.20E-05		
I-132	Ci	0.00E+00	0.00E+00		
I-133	Ci	0.00E+00	0.00E+00		
I-134	Ci	0.00E+00	0.00E+00		
I-135	Ci	0.00E+00	0.00E+00		
Total for Period	Ci	0.00E+00	1.20E-05		
3. Particulates (> 8 Days)					
Cr-51	Ci	0.00E+00	0.00E+00		
Mn-54	Ci	1.73E-05	0.00E+00		
Fe-55	Ci	0.00E+00	0.00E+00		
Co-57	Ci	0.00E+00	0.00E+00		
Co-58	Ci	1.09E-05	9.73E-07		
Fe-59	Ci	0.00E+00	0.00E+00		
Co-60	Ci	2.31E-04	1.69E-06		
Zn-65	Ci	1.90E-06	0.00E+00		
Zr-95	Ci	0.00E+00	0.00E+00		
Nb-95	Ci	5.48E-06	0.00E+00		
Sr-89	Ci	0.00E+00	0.00E+00		
Sr-90	Ci	0.00E+00	0.00E+00		

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TABLE 3.7-1 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES (CONTINUED)

Nuclides Released	Unit	Continuous Mode	
		QTR#3	QTR#4
3. Particulates (> 8 Days) (continued)			
Y-90	Ci	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00
Sb-125	Ci	9.95E-06	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00
Cs-137	Ci	4.33E-06	0.00E+00
Ba-140	Ci	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00
Total for Period	Ci	2.81E-04	2.66E-06
4. Particulates (< 8 Days)			
Mn-56	Ci	0.00E+00	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00
Rb-89	Ci	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00
Tc-99m	Ci	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00
Sb-122	Ci	0.00E+00	0.00E+00
Te-129	Ci	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00
Cs-138	Ci	0.00E+00	0.00E+00
La-140	Ci	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	0.00E+00

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TABLE 3.7-2 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
1. Fission Gases					
Ar-41	Ci	0.00E+00	2.13E-01	1.95E-01	0.00E+00
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-127	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	9.60E-04	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	2.09E-03	0.00E+00
Xe-133	Ci	0.00E+00	3.36E-02	1.95E-01	0.00E+00
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	1.15E+00
Xe-135	Ci	0.00E+00	5.20E-04	9.98E-04	0.00E+00
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	2.48E-01	3.94E-01	1.15E+00
2. Iodines					
I-131	Ci	1.37E-05	6.20E-06		
I-132	Ci	0.00E+00	0.00E+00		
I-133	Ci	0.00E+00	1.25E-03		
I-134	Ci	0.00E+00	0.00E+00		
I-135	Ci	0.00E+00	0.00E+00		
Total for Period	Ci	1.37E-05	1.26E-03		
3. Particulates (> 8 Days)					
Cr-51	Ci	0.00E+00	0.00E+00		
Mn-54	Ci	0.00E+00	0.00E+00		
Fe-55	Ci	0.00E+00	0.00E+00		
Co-57	Ci	0.00E+00	0.00E+00		
Co-58	Ci	9.27E-08	0.00E+00		
Fe-59	Ci	0.00E+00	0.00E+00		
Co-60	Ci	0.00E+00	0.00E+00		
Zn-65	Ci	0.00E+00	0.00E+00		
Zr-95	Ci	0.00E+00	0.00E+00		
Nb-95	Ci	0.00E+00	0.00E+00		

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TABLE 3.7-2 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES (CONTINUED)

Nuclides Released	Unit	Continuous Mode	
		QTR#1	QTR#2
3. Particulates (> 8 Days) (continued)			
Sr-89	Ci	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00
Sb-125	Ci	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00
Cs-137	Ci	1.70E-06	0.00E+00
Ba-140	Ci	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00
Total for Period	Ci	1.79E-06	0.00E+00
4. Particulates (< 8 Days)			
Mn-56	Ci	0.00E+00	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00
Rb-89	Ci	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00
Tc-99m	Ci	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00
Sb-122	Ci	0.00E+00	0.00E+00
Te-129	Ci	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00
Cs-138	Ci	0.00E+00	0.00E+00
La-140	Ci	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	0.00E+00

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TABLE 3.7-2 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES (CONTINUED)

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
1. Fission Gases					
Ar-41	Ci	0.00E+00	0.00E+00	2.27E-01	2.15E-01
Kr-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-127	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-133	Ci	0.00E+00	0.00E+00	2.60E-02	2.69E-02
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	0.00E+00	0.00E+00	1.70E-04	5.00E-05
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	0.00E+00	2.53E-01	2.42E-01
2. Iodines					
I-131	Ci	4.86E-06	6.63E-05		
I-132	Ci	0.00E+00	0.00E+00		
I-133	Ci	1.00E-04	0.00E+00		
I-134	Ci	0.00E+00	0.00E+00		
I-135	Ci	0.00E+00	0.00E+00		
Total for Period	Ci	1.05E-04	6.63E-05		
3. Particulates (> 8 Days)					
Cr-51	Ci	0.00E+00	0.00E+00		
Mn-54	Ci	0.00E+00	0.00E+00		
Fe-55	Ci	0.00E+00	0.00E+00		
Co-57	Ci	0.00E+00	0.00E+00		
Co-58	Ci	0.00E+00	0.00E+00		
Fe-59	Ci	0.00E+00	0.00E+00		
Co-60	Ci	0.00E+00	0.00E+00		
Zn-65	Ci	0.00E+00	0.00E+00		
Zr-95	Ci	0.00E+00	0.00E+00		
Nb-95	Ci	0.00E+00	0.00E+00		

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TABLE 3.7-2 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES (CONTINUED)

Nuclides Released	Unit	Continuous Mode	
		QTR#3	QTR#4
3. Particulates (> 8 Days) (continued)			
Sr-89	Ci	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00
Y-90	Ci	0.00E+00	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110m	Ci	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00
Sb-124	Ci	0.00E+00	0.00E+00
Sb-125	Ci	0.00E+00	0.00E+00
Te-129m	Ci	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00
Cs-136	Ci	0.00E+00	0.00E+00
Cs-137	Ci	1.75E-06	1.62E-06
Ba-140	Ci	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00
Total for Period	Ci	1.75E-06	1.62E-06
4. Particulates (< 8 Days)			
Mn-56	Ci	0.00E+00	0.00E+00
Ni-65	Ci	0.00E+00	0.00E+00
Br-82	Ci	0.00E+00	0.00E+00
Rb-88	Ci	0.00E+00	0.00E+00
Rb-89	Ci	0.00E+00	0.00E+00
Sr-91	Ci	0.00E+00	0.00E+00
Sr-92	Ci	0.00E+00	0.00E+00
Y-92	Ci	0.00E+00	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00
Tc-99m	Ci	0.00E+00	0.00E+00
Mo-99	Ci	0.00E+00	0.00E+00
Sb-122	Ci	0.00E+00	0.00E+00
Te-129	Ci	0.00E+00	0.00E+00
Te-132	Ci	0.00E+00	0.00E+00
Cs-138	Ci	0.00E+00	0.00E+00
La-140	Ci	0.00E+00	0.00E+00
Pr-144	Ci	0.00E+00	0.00E+00
W-187	Ci	0.00E+00	0.00E+00
Np-239	Ci	0.00E+00	0.00E+00
Total for Period	Ci	0.00E+00	0.00E+00

FLORIDA POWER & LIGHT COMPANY
 ST. LUCIE UNIT 1
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TABLE 3.8-1
 GASEOUS EFFLUENTS - DOSE SUMMATION

AGE GROUP: ADULT

Dose Pathway	Bone mrem	Liver mrem	Thyroid mrem	Kidney mrem
Inhalation	2.22E-07	1.73E-03	1.74E-03	1.73E-03
Grass-Goat-Milk	4.97E-06	2.23E-04	2.64E-04	2.19E-04
Ground Plane	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Garden	2.26E-07	4.42E-05	5.42E-05	4.39E-05
Meat	2.27E-07	4.57E-05	4.64E-05	4.51E-05
Total Dose	5.65E-06	2.05E-03	2.10E-03	2.04E-03

Dose Pathway	Lung mrem	GI-LLI mrem	Total Body mrem
Inhalation	1.80E-03	1.74E-03	1.73E-03
Grass-Goat-Milk	2.17E-04	2.17E-04	2.21E-04
Ground Plane	0.00E+00	0.00E+00	1.67E-03
Garden	4.43E-05	4.66E-05	4.42E-05
Meat	4.55E-05	5.42E-05	4.61E-05
Total Dose	2.10E-03	2.05E-03	3.71E-03

Noble Gases	mrad
Gamma Air Dose	1.21E-03
Beta Air Dose	5.70E-04

Sector: SE Range: 1.5 miles

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 ST. LUCIE UNIT 2
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TABLE 3.8-2
 GASEOUS EFFLUENTS - DOSE SUMMATION

AGE GROUP: ADULT

Dose Pathway	Bone mrem	Liver mrem	Thyroid mrem	Kidney mrem
Inhalation	6.71E-07	6.97E-04	9.03E-04	6.98E-04
Grass-Goat-Milk	3.63E-06	9.19E-05	5.03E-04	9.05E-05
Ground Plane	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Garden	3.47E-07	1.81E-05	1.20E-04	1.82E-05
Meat	1.29E-07	1.82E-05	2.91E-05	1.81E-05
Total Dose	4.77E-06	8.25E-04	1.56E-03	8.25E-04

Dose Pathway	Lung mrem	GI-LLI mrem	Total Body mrem
Inhalation	6.96E-04	6.97E-04	6.97E-04
Grass-Goat-Milk	8.73E-05	8.75E-05	9.00E-05
Ground Plane	0.00E+00	0.00E+00	1.78E-05
Garden	1.76E-05	1.77E-05	1.78E-05
Meat	1.80E-05	1.80E-05	1.81E-05
Total Dose	8.19E-04	8.20E-04	8.40E-04

Noble Gases	mrad
Gamma Air Dose	1.71E-03
Beta Air Dose	9.35E-04

Sector: SE Range: 1.5 miles

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UNITS 1 AND 2, TABLE 3.9

A. Solid Waste Shipped Off-Site for Burial or Disposal

1. Type of Waste	Unit	12 Mo. Period	Error %
a. Spent Resin, Process Filters (Note 6)	M3	1.74E+1	2.0 E+1
	Ci	6.27E+2	
b. Dry Compressible Waste (Note 5)	M3	2.74E+2	2.0 E+1
	Ci	2.06E+1	
c. Irradiated Components	M3	0	N/A*
	Ci	0	
d. Other (Note 7)			
1.Reactor Head	M3	1.61E+2	2.0E+1
	Ci	1.37E+1	

2. Estimate of Major Nuclide Composition (By Waste Type)

Category	Nuclides	%
a.	Ni 63	5.10E+1
	Co 58	1.89E+1
	Fe 55	1.70E+1
	Co 60	8.31E+0
	Mn 54	1.86E+0
	Cs 137	1.10E+0
	Sb 125	9.60E-1
b.	Fe 55	5.70E+1
	Ni 63	2.04E+1
	Co 60	1.10E+1
	Co 58	6.09E+0
	Cr 51	1.25E+0
	Mn 54	1.06E+0
	Nb 95	6.70E-1
	Zr 95	5.80E-1
c.	N/A*	N/A*
d.	Fe 55	6.06E+1
	Ni 63	1.58E+1
	Co 60	1.48E+1
	Co 58	5.10E+0
	Mn 54	2.12E+0
	Nb 95	4.15E-1
	Zr 95	3.54E-1

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UNITS 1 AND 2, TABLE 3.9 (CONTINUED)

3. Solid Waste Disposition.

Number of Shipments	Mode of Transportation	Destination
1	Sole Use Truck	EnergySolutions- Clive, UT
28	Sole Use Truck	EnergySolutions- Oak Ridge, TN
1	Sole Use Truck	Studsvik/RACE- Memphis, TN
3	Sole Use Barge and Truck	Studsvik/RACE- Memphis, TN
8	Sole Use Truck	Studsvik LLC- Erwin, TN

B. Irradiated Fuel Shipments

Number of Shipments	Mode of Transportation	Destination
0	N/A*	N/A*

*N/A = Not Applicable

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UNITS 1 AND 2, TABLE 3.9 (CONTINUED)

Waste Class	Total Volume Cubic Feet	Total Curies (Note 1)	Principal Radionuclides (Notes 1 and 2)	Type of Waste (Note 3)	Category Reg. Guide 1.21	Type of Container (Note 4)	Solidification Agent
Class A	9,554.27	8.10E+0	Ni 63, TRU	PWR Compressible Waste (note 5)	1.b.	Non- Specification General Design Package	None
Class A	132.4	1.25E+1	Ni 63, Pu 241, TRU	PWR Compressible Waste (note 5)	1.b.	DOT Certified Type A Package	None
Class A	5,681.58	1.37E+1	Ni 63	PWR Non- Compressible Waste (note 7)	1.d.1.	Non- Specification General Design Package	None
Class A	279.80	1.02E+1	Ni 63, Cs 137, Sr 90, Nuclides T1/2 <5 yrs., TRU	PWR Ion- Exchange Resin (note 6)	1.a.	DOT Certified Type A Package	None
Class A	40.56	4.68E-1	Ni 63, Sr 90, Pu 241, Cs 137, TRU	PWR Process Filters (note 6)	1.a.	Non- Specification General Design Package	None
Class C	107.90	4.79E+2	Co 60, Ni 63, Cs 137, Sr 90, Nuclides T 1/2 <5 yrs., TRU	PWR Ion- Exchange Resin (note 6)	1.a.	NRC Certified Type B	None
Class C	185.62	1.37E+2	Co 60, Ni 63, Cs 137, Sr 90, Nuclides T 1/2 <5 yrs., Pu 241, TRU	PWR Process Filters (note 6)	1.a.	NRC Certified Type B	None

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UNITS 1 AND 2, TABLE 3.9 (CONTINUED)

SOLID WASTE SUPPLEMENT

NOTE 1: The total radionuclide activity and composition of solid waste shipped from the St. Lucie Plant, Units 1 and 2 are determined using a combination of qualitative techniques. In general, the St. Lucie Plant follows the guidelines outlined in the Low Level Waste Branch Technical Position (BTP) on Radioactive Waste Classification (5/11/83) for these determinations. The most frequently used techniques for determining the total activity in a package are the "Dose-to-Curie" method and "Concentration Times Volume or Mass" calculations. Where appropriate, engineering type activation analyses may be applied. Since each of the above methodologies involves, to some extent, qualitative parameters, the total activity is considered to be an estimate.

The composition of radionuclides in the waste is determined by both on-site analyses for principal gamma emitters and periodic off-site analyses for other radionuclides. The on-site analyses are performed either on a batch basis or on a routine basis using reasonably representative samples as appropriate for the waste type. Off-site analyses are used to establish scaling factors or other estimates for radionuclides such as H3, C14, Fe55, Sr90, Tc99, I129, Pu238, Pu239/240, Pu241, Am241, Cm242 and Cm243/244.

NOTE 2: "Principal Radionuclides" refer to those radionuclides contained in the waste in concentrations greater than 0.01 times the concentration of nuclides listed in Table 1 or 0.01 times the smallest concentration of nuclides listed in Table 2 of 10 CFR 61.

NOTE 3: "Type of Waste" is generally specified as described in NUREG 0782, Draft Environmental Impact Statement on 10 CFR 61, "Licensing Requirements for Land Disposal of Radioactive Waste".

NOTE 4: "Type of Container" refers to the transport package.

NOTE 5: The volume and activity listed for "Dry Compressible Waste" represent the quantity of material that during the reporting period was sent to the licensed disposal facilities. Some of this material was shipped to a contract vendor for volume reduction or recycle prior to final disposal at the licensed disposal facilities. During the reporting period, twenty six (26) shipments of dry active waste, secondary bead resin and non-compressible waste (37,932 cubic feet, 7.12E+0 curies) were made from the St. Lucie Plant to the volume reduction facilities. These materials were shipped via "Sole Use Truck" in non-specification, general design containers.

NOTE 6: The volume and activity listed for "Spent Resin, Process Filters" represent the quantity of material that during the reporting period was sent to the licensed disposal facilities. Some of this material was shipped to a contracted vendor as dewatered bead resin and process filters for volume reduction prior to final disposal at the licensed disposal facility. During the reporting period, eleven (11) shipments of bead resin and process filters (1089 cubic feet, 6.25E+2 curies) were made from the St. Lucie Plant to the contract vendor for volume reduction and disposal.

NOTE 7: The volume and activity listed for "Other" (Reactor Head) represent the quantity this material that during the reporting period was sent to the licensed disposal facility. This material was shipped to a contracted vendor for volume reduction prior to final disposal at the licensed disposal facility.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNITS 1 AND 2
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ATTACHMENT A
INFORMATION FOR GROUND WATER PROTECTION PROGRAM

ATTACHMENT A - INFORMATION FOR GROUND WATER PROTECTION PROGRAM

Well ID	H3 Jan 2008	H3 Jan Re-analyzed on 4/28	H3 Feb 2008	H3 Feb 2008 re-analyzed	H3 Mar 2008	H3 Apr 2008	H3 Apr 2008--re-runs	H3 May 2008	H3 June 2008	H3 July 2008	H3 aug 2008	H3 Sep 2008	H3 OCT 2008	H3 Nov 2008	H3 Dec 2008
Diesel - Unit 1 & 2	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l
MW-1	<MDC (450)					<MDC (470)				<MDC (430)			<MDC (430)		
MW-3	600		870	1040	<MDC (470)	<MDC (480)		<MDC (470)	720	650	<MDC (420)	<MDC (420)	590	<MDC (440)	<MDC (440)
MW-4	550		860	710	<MDC (480)	<MDC (470)		590	<MDC (450)	510	<MDC (420)	<MDC (430)	<MDC (440)	500	1770
MW-5	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (430)		
MW-6	1130		940	1180	<MDC (470)	4670	5570	2980	1180	2520	2440	2650	1530	1900	1080
MW-7	<MDC (440)					<MDC (470)				500		<MDC (430)	<MDC (430)		
MW-9	<MDC (440)					<MDC (470)				<MDC (410)			<MDC (440)		
MW-10	<MDC (450)					<MDC (470)				<MDC (430)			<MDC (430)		
MW-11	480					<MDC (470)				<MDC (420)			<MDC (440)		
MW-12	<MDC (440)					<MDC (460)				<MDC (420)			<MDC (430)		
MW-13	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (440)		
MW-15	480	530	640	490	<MDC (470)	<MDC (470)		<MDC (460)	<MDC (440)	<MDC (410)	<MDC (420)	<MDC (430)	<MDC (430)	<MDC (440)	31630
MW-16	<MDC (440)					<MDC (470)				<MDC (430)			<MDC (430)		
MW-17	650	<MDC (450)	680	650	<MDC (470)	<MDC (470)		<MDC (460)	<MDC (440)	<MDC (410)	<MDC (420)	<MDC (420)	500	<MDC (430)	670
MW-18D	730	<MDC (460)			<MDC (470)	<MDC (470)		<MDC (470)	<MDC (440)	560	450	650	640	580	<MDC (450)
MW-19	<MDC (450)					<MDC (470)				<MDC (410)			<MDC (440)		
MW-20	<MDC (440)					<MDC (470)				<MDC (410)			<MDC (440)		
MW-21	<MDC (440)					<MDC (460)				<MDC (420)			<MDC (430)		
MW-22D	<MDC (440)					<MDC (470)				480		440	690	860	530
MW-24	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (440)		
MW-25	<MDC (440)					<MDC (460)				<MDC (420)			<MDC (430)		
MW-26	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (430)		
RW-1	<MDC (450)					<MDC (470)				480			<MDC (440)		
RW-2	14100	13550	7300	6760	6250	5920	6350	7410	5850	6660	7980	5300	8110	12290	10840
RW-3	<MDC (440)					<MDC (470)				<MDC (430)			<MDC (430)		
RW-4	<MDC (450)					<MDC (470)				<MDC (430)			<MDC (470)		
RW-5	<MDC (440)					<MDC (470)				<MDC (430)			<MDC (440)		

ATTACHMENT A - INFORMATION FOR GROUND WATER PROTECTION PROGRAM

Well ID	H3 Jan 2008	H3 Jan Re-analyzed on 4/28	H3 Feb 2008	H3 Feb 2008 re-analyzed	H3 Mar 2008	H3 Apr 2008	H3 Apr 2008--re-runs	H3 May 2008	H3 June 2008	H3 July 2008	H3 Aug 2008	H3 Sep 2008	H3 OCT 2008	H3 Nov 2008	H3 Dec 2008
TLO/Wells	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l
Unit 1 - MW001	1840	1830	1600	800	1150	3150	3560	3860	2450	5290	7220	4970	1840	7680	1890
Unit 1 - MW002	730	910	1530	1020	1380	1650	2440	2440	1810	1770	1540	1370	1570	1890	740
Unit 1 - MW003	<MDC (480)	580	1250	<MDC (470)	610	2950	3100	1110	1440	1830	1510	1240	1410	2000	900
Unit 1 - MW004	580	<MDC (450)	980	<MDC (480)	<MDC (480)	820		<MDC (470)	<MDC (440)	<MDC (420)	640	630	620	760	<MDC (440)
Unit 2 - MW001	<MDC (450)	<MDC (460)	590	<MDC (470)	<MDC (470)	<MDC (480)		<MDC (460)	<MDC (440)	710	<MDC (420)	<MDC (430)	<MDC (430)	<MDC (440)	<MDC (440)
Unit 2 - MW002	1890	1720	3070	2100	4720	5710	6370	5970	4100	7570	4090	1380	2840	1860	1210
Unit 2 - MW003	1910	1690	2050	1120	760	760		1960	1130	1610	1740	2300	2740	2200	2750

Well ID	H3 Jan 2008	H3 Jan Re-analyzed on 4/28	H3 Feb 2008	H3 Feb 2008 re-analyzed	H3 Mar 2008	H3 Apr 2008	H3 Apr 2008--re-runs	H3 May 2008	H3 June 2008	H3 July 2008	H3 Aug 2008	H3 Sep 2008	H3 OCT 2008	H3 Nov 2008	H3 Dec 2008
Mixed Plume	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l
(S)-MW-1	<MDC (470)					<MDC (470)				<MDC (420)			<MDC (440)		
(S)-MW-3	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (440)		
(S)-MW-4	700		570	<MDC (440)	<MDC (480)	<MDC (470)		<MDC (460)	<MDC (450)	450	440	450	530	740	540
(S)-MW-5	1680		1030	1660	730	<MDC (460)		1640	880	1220	1530	1220	1020	710	1230
(S)-MW-6	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (440)		
(S)-MW-7A	<MDC (440)					<MDC (470)				<MDC (420)			<MDC (440)		
(S)-MW-10	<MDC (440)					<MDC (460)				<MDC (410)			<MDC (440)		
(S)-MW-11	1080		950	1010	<MDC (470)	600		1270	1230	1140	1360	1150	1030	1150	890
(S)-MW-12	<MDC (450)					<MDC (470)				<MDC (420)			<MDC (440)		
(S)-MW-13D	<MDC (450)					<MDC (470)				<MDC (420)			<MDC (450)		
(S)-MW-14	<MDC (450)					<MDC (470)				<MDC (430)			<MDC (440)		
(S)-MW-15D	680		<MDC (470)	<MDC (470)	<MDC (470)	<MDC (460)		<MDC (460)	<MDC (450)	<MDC (420)	<MDC (430)	<MDC (430)	<MDC (440)	<MDC (440)	<MDC (440)

Well ID	H3 Jan 2008	H3 Jan Re-analyzed on 4/28	H3 Feb 2008	H3 Feb 2008 re-analyzed	H3 Mar 2008	H3 Apr 2008	H3 Apr 2008--re-runs	H3 May 2008	H3 June 2008	H3 July 2008	H3 Aug 2008	H3 Sep 2008	H3 OCT 2008	H3 Nov 2008	H3 Dec 2008
Neut Basin	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l
PSLED - 1	<MDC (440)									<MDC (420)					
PSLED - 2	<MDC (440)												<MDC (440)		
PSLED - 3	<MDC (440)														
PSLED - 4	<MDC (440)														
MW-1	<MDC (440)									<MDC (430)			<MDC (440)		
MW-2	<MDC (440)									<MDC (420)			<MDC (440)		

Well ID													H3 Nov 2008	H3 Dec 2008
Site Boundary													pCi/l	pCi/l
H-76													<MDC (430)	<MDC (440)
H-77													<MDC (440)	<MDC (440)
H-78													<MDC (450)	<MDC (460)
H-79													<MDC (440)	<MDC (450)

FLORIDA POWER & LIGHT COMPANY
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ATTACHMENT B
RADIATION MONITORS OUT OF SERVICE GREATER THAN 30 DAYS

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNITS 1 & 2
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JANUARY 1, 2008 THROUGH DECEMBER 31, 2008

ATTACHMENT - B Monitors Out of Service for Greater Than 30 Days

2B Steam Generator Monitor Out of Service for Greater than 30 Days

Description of the event:

The cause of 2B Steam Generator (S/G) Radiation Monitor being held out of service for greater than 30 days was due to scheduled repair work on PCV-23-5. An equipment clearance order (ECO) was applied on 6/17/08 and was not released until 8/5/08 after work was completed. The work was delayed due to the emergent need for parts. The parts were requested on 6/17/08 and did not arrive on site until 7/24/08. The work order was rescheduled and prioritized. The work completed on 8/5/08. The radiation monitor was fully functional during this time, however, with the pressure control valve for RS-26-6 inlet out of service and out on an ECO, the radiation monitor could not perform it's function without a sample flow.