

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, 2005 THROUGH DECEMBER 31, 2005

TABLE OF CONTENTS

DESCRIPTION	PAGE
EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION.....	1
VISITOR DOSE RESULTS FOR CALENDAR YEAR	6
OFFSITE DOSE CALCULATION MANUAL REVISIONS.....	6
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS.....	6
PROCESS CONTROL PROGRAM REVISIONS.....	6
CHANGES TO RADIOACTIVE WASTE TREATMENT SYSTEMS.....	6
LIQUID EFFLUENTS:	
Summation of all Releases Unit # 1.....	7
Summation of all Releases Unit # 2.....	9
Nuclide Summation by Quarter Unit # 1	11
Nuclide Summation by Quarter Unit # 2	15
Liquid Effluent Dose Unit # 1	19
Liquid Effluent Dose Unit # 2	20
GASEOUS EFFLUENT:	
Summation of all Releases Unit # 1.....	21
Summation of all Releases Unit # 2.....	23
Nuclide Summation by Quarter Unit # 1	25
Nuclide Summation by Quarter Unit # 2	29
Gas Effluent Dose Unit # 1	33
Gas Effluent Dose Unit # 2	34
SOLID WASTE DISPOSAL - TABLE 3.9 Shipment Summations.....	35
Attachment - A Unit 1 Liquid Rad Waste Monitor Out of Service Greater Than 30 Days	39
Attachment - B C-200, ODCM Revision 26	
Attachment - C C-200, ODCM Revision 25 Marked Up Pages	

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 mrem to the Total Body and
to ≤ 5 mrem to any organ, and
During any calendar year to ≤ 3 mrem to the Total Body and
to ≤ 10 mrem 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 mrem/yr to the total body and
 ≤ 3000 mrem/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 mrem/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 mrad for gamma radiation, and
 ≤ 10 mrad for beta radiation and,
during any calendar year, to ≤ 10 mrad for gamma radiation and
 ≤ 20 mrad 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. The ODCM Control dose limits are therefore 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 (Cont.)

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	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 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 Tritium	p.h.a. 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	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	36	35	
2. Total time period for batch releases	26,505	26,505	minutes
3. Maximum time period for a batch release	6,860	6,860	minutes
4. Average time period for a batch release	747	747	minutes
5. Minimum time period for a batch release	385	385	minutes
6. Average dilution stream flow during the period	889,400	889,400	gpm

All liquid releases are summarized in Tables

B. Gaseous	Unit 1	Unit 2	Eng. Unit
1. Number of batch releases	14	100	
2. Total time period for batch releases	3,884	19,970	minutes
3. Maximum time period for a batch release	682	5,835	minutes
4. Average time period for a batch release	277	200	minutes
5. Minimum time period for a batch release	28	7	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 2005.

VISITOR DOSE RESULTS FOR CALENDAR YEAR 2005 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	9.36E-05	Bone	1.99E-05
Beta Air Dose	8.96E-05	Liver	1.38E-03
		Thyroid	1.36E-03
		Kidney	1.37E-03
		Lung	1.36E-03
		GI-LLI	1.36E-03
		Total Body	1.39E-03

8. Offsite Dose Calculation Manual(ODCM) Revision(s):

The ODCM was revised to remove a reference to an effluent radiation which was never installed in the Unit 1 Reactor Auxiliary Building. The effluent monitor was not needed due to a modification of a fan system's discharge path. The modification allowed the fan discharge be directed inside of the building where the plant vent radiation monitor would monitor the fan's discharge. Additionally, the definition of a "channel functional test" was revised to match the definition of "channel functional test" in the Technical Specifications. Several minor revisions which were generally administrative in nature were also incorporated during this revision.

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.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.37E-02	1.30E-02
2. Average Diluted Concentration During Period	uCi/ml	5.94E-11	2.55E-11
B. Tritium			
1. Total Release	Ci	2.13E+01	1.94E+01
2. Average Diluted Concentration During Period	uCi/ml	5.35E-08	3.81E-08
C. Dissolved and Entrained Gases			
1. Total Release	Ci	2.90E-03	8.03E-04
2. Average Diluted Concentration During Period	uCi/ml	7.27E-12	1.58E-12
D. Gross Alpha Radioactivity			
1. Total Release	Ci	0.00E+00	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	8.25E+05	(a) 2.50E+07
F. Volume of Dilution Water Used During Period			
	Liters	3.99E+11	5.09E+11

(a) - This value includes 2.46E+07 Liters from one settling pond release for hurricane preparations.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	5.33E-02	5.40E-02
2. Average Diluted Concentration During Period	uCi/ml	1.04E-10	1.55E-10
B. Tritium			
1. Total Release	Ci	6.10E+01	6.65E+01
2. Average Diluted Concentration During Period	uCi/ml	1.19E-07	1.91E-07
C. Dissolved and Entrained Gases			
1. Total Release	Ci	5.93E-03	5.97E-02
2. Average Diluted Concentration During Period	uCi/ml	1.16E-11	1.72E-10
D. Gross Alpha Radioactivity			
1. Total Release	Ci	5.30E-07	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	5.90E+05	(b) 1.73E+07
F. Volume of Dilution Water Used During Period			
	Liters	5.13E+11	3.48E+11

(b) - This value includes 1.62E+07 Liters from one settling pond release for Hurricane preparations.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.37E-02	1.30E-02
2. Average Diluted Concentration During Period	uCi/ml	5.94E-11	2.55E-11
B. Tritium			
1. Total Release	Ci	2.13E+01	1.94E+01
2. Average Diluted Concentration During Period	uCi/ml	5.35E-08	3.81E-08
C. Dissolved and Entrained Gases			
1. Total Release	Ci	2.90E-03	8.03E-04
2. Average Diluted Concentration During Period	uCi/ml	7.27E-12	1.58E-12
D. Gross Alpha Radioactivity			
1. Total Release	Ci	0.00E+00	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	8.25E+05	(a) 2.50E+07
F. Volume of Dilution Water Used During Period			
	Liters	3.99E+11	5.09E+11

(a) - This value includes 2.46E+07 Liters from one settling pond release for hurricane preparations.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	5.33E-02	5.40E-02
2. Average Diluted Concentration During Period	uCi/ml	1.04E-10	1.55E-10
B. Tritium			
1. Total Release	Ci	6.10E+01	6.65E+01
2. Average Diluted Concentration During Period	uCi/ml	1.19E-07	1.91E-07
C. Dissolved and Entrained Gases			
1. Total Release	Ci	5.93E-03	5.97E-02
2. Average Diluted Concentration During Period	uCi/ml	1.16E-11	1.72E-10
D. Gross Alpha Radioactivity			
1. Total Release	Ci	5.30E-07	0.00E+00
E. Volume of Waste Released (Prior to Dilution)			
	Liters	5.90E+05	(b) 1.73E+07
F. Volume of Dilution Water Used During Period			
	Liters	5.13E+11	3.48E+11

(b) - This value includes 1.62E+07 Liters from one settling pond release for Hurricane preparations.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.4-1 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
C-14	Ci	0.00E+00	0.00E+00	5.25E-03	2.17E-03
Na-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	3.40E-04	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	8.28E-04	3.47E-04
Fe-55	Ci	0.00E+00	0.00E+00	6.70E-03	3.62E-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	6.32E-03	1.29E-03
Fe-59	Ci	0.00E+00	0.00E+00	3.22E-05	0.00E+00
Co-60	Ci	0.00E+00	0.00E+00	1.50E-03	8.71E-04
Ni-63	Ci	0.00E+00	0.00E+00	1.46E-03	5.70E-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	3.72E-05	1.34E-05
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	8.01E-05	0.00E+00
Nb-95	Ci	0.00E+00	0.00E+00	1.46E-04	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	0.00E+00	1.26E-05
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-110	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00	2.43E-05	3.33E-06
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	1.55E-04
Sb-125	Ci	0.00E+00	0.00E+00	8.10E-04	3.73E-03

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.43E-05
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	1.79E-04	1.86E-04
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	2.37E-02	1.30E-02
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	2.67E-05	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	2.84E-03	7.65E-04
Xe-135m	Ci	0.00E+00	0.00E+00	2.93E-05	3.78E-06
Xe-135	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	3.46E-05

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.4-1 LIQUID EFFLUENTS (Continued)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
C-14	Ci	0.00E+00	0.00E+00	3.04E-02	2.36E-02
Na-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	0.00E+00	1.61E-03
Mn-54	Ci	0.00E+00	0.00E+00	2.29E-04	1.46E-04
Fe-55	Ci	0.00E+00	0.00E+00	1.29E-02	1.59E-02
Mn-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-57	Ci	0.00E+00	0.00E+00	2.84E-05	3.31E-05
Co-58	Ci	0.00E+00	0.00E+00	2.56E-03	6.49E-03
Fe-59	Ci	0.00E+00	0.00E+00	0.00E+00	2.22E-04
Co-60	Ci	0.00E+00	0.00E+00	2.89E-03	1.95E-03
Ni-63	Ci	0.00E+00	0.00E+00	1.86E-03	2.68E-03
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	5.65E-06
Y-90	Ci	0.00E+00	0.00E+00	0.00E+00	5.65E-06
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	1.24E-04
Y-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	1.04E-04	7.23E-05
Nb-95	Ci	0.00E+00	0.00E+00	1.60E-04	1.26E-04
Zr-97	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	0.00E+00	1.65E-05
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-110	Ci	0.00E+00	0.00E+00	1.40E-05	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00	2.68E-06	2.02E-05
Sb-122	Ci	0.00E+00	0.00E+00	0.00E+00	4.89E-06
Sb-124	Ci	0.00E+00	0.00E+00	0.00E+00	3.71E-05
Sb-125	Ci	0.00E+00	0.00E+00	2.08E-03	8.52E-04

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	3.88E-06
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	7.44E-06
I-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00	7.40E-06	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	1.31E-04	9.08E-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	5.33E-02	5.40E-02
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	2.93E-06
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	7.61E-06	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	1.39E-03
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	4.21E-04
Xe-133	Ci	0.00E+00	0.00E+00	5.86E-03	5.78E-02
Xe-135m	Ci	0.00E+00	0.00E+00	5.71E-05	2.73E-05
Xe-135	Ci	0.00E+00	0.00E+00	0.00E+00	1.29E-05
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.4-2 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#1	QTR#2	QTR#1	QTR#2
C-14	Ci	0.00E+00	0.00E+00	5.25E-03	2.17E-03
Na-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	3.40E-04	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	8.28E-04	3.47E-04
Fe-55	Ci	0.00E+00	0.00E+00	6.70E-03	3.62E-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	6.32E-03	1.29E-03
Fe-59	Ci	0.00E+00	0.00E+00	3.22E-05	0.00E+00
Co-60	Ci	0.00E+00	0.00E+00	1.50E-03	8.71E-04
Ni-63	Ci	0.00E+00	0.00E+00	1.46E-03	5.70E-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	3.72E-05	1.34E-05
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	8.01E-05	0.00E+00
Nb-95	Ci	0.00E+00	0.00E+00	1.46E-04	0.00E+00
Zr-97	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	0.00E+00	1.26E-05
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-110	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00	2.43E-05	3.33E-06
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	1.55E-04
Sb-125	Ci	0.00E+00	0.00E+00	8.10E-04	3.73E-03

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.43E-05
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	1.79E-04	1.86E-04
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	2.37E-02	1.30E-02
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	2.67E-05	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	2.84E-03	7.65E-04
Xe-135m	Ci	0.00E+00	0.00E+00	2.93E-05	3.78E-06
Xe-135	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	3.46E-05

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.4-2 LIQUID EFFLUENTS (Continued)

NUCLIDES RELEASED	UNIT	Continuous Mode		Batch Mode	
		QTR#3	QTR#4	QTR#3	QTR#4
C-14	Ci	0.00E+00	0.00E+00	3.04E-02	2.36E-02
Na-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	0.00E+00	1.61E-03
Mn-54	Ci	0.00E+00	0.00E+00	2.29E-04	1.46E-04
Fe-55	Ci	0.00E+00	0.00E+00	1.29E-02	1.59E-02
Mn-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-57	Ci	0.00E+00	0.00E+00	2.84E-05	3.31E-05
Co-58	Ci	0.00E+00	0.00E+00	2.56E-03	6.49E-03
Fe-59	Ci	0.00E+00	0.00E+00	0.00E+00	2.22E-04
Co-60	Ci	0.00E+00	0.00E+00	2.89E-03	1.95E-03
Ni-63	Ci	0.00E+00	0.00E+00	1.86E-03	2.68E-03
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	5.65E-06
Y-90	Ci	0.00E+00	0.00E+00	0.00E+00	5.65E-06
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	1.24E-04
Y-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	1.04E-04	7.23E-05
Nb-95	Ci	0.00E+00	0.00E+00	1.60E-04	1.26E-04
Zr-97	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-97	Ci	0.00E+00	0.00E+00	0.00E+00	1.65E-05
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-110	Ci	0.00E+00	0.00E+00	1.40E-05	0.00E+00
Sn-113	Ci	0.00E+00	0.00E+00	2.68E-06	2.02E-05
Sb-122	Ci	0.00E+00	0.00E+00	0.00E+00	4.89E-06
Sb-124	Ci	0.00E+00	0.00E+00	0.00E+00	3.71E-05
Sb-125	Ci	0.00E+00	0.00E+00	2.08E-03	8.52E-04

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	3.88E-06
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	7.44E-06
I-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	0.00E+00	0.00E+00	7.40E-06	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	1.31E-04	9.08E-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	5.33E-02	5.40E-02
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	2.93E-06
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	0.00E+00	0.00E+00	7.61E-06	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	1.39E-03
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	4.21E-04
Xe-133	Ci	0.00E+00	0.00E+00	5.86E-03	5.78E-02
Xe-135m	Ci	0.00E+00	0.00E+00	5.71E-05	2.73E-05
Xe-135	Ci	0.00E+00	0.00E+00	0.00E+00	1.29E-05
Xe-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.37E-02
Liver	1.01E-01
Thyroid	4.41E-04
Kidney	4.68E-04
Lung	1.18E-01
GI-LLI	4.63E-02
Total Body	2.72E-02

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.37E-02
Liver	1.01E-01
Thyroid	4.41E-04
Kidney	4.68E-04
Lung	1.18E-01
GI-LLI	4.63E-02
Total Body	2.72E-02

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.6-1 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR#1	QTR#2
A. Fission and Activation Gases			
1. Total Release	Ci	0.00E+00	0.00E+00
2. Average Release Rate For Period	uCi/sec	0.00E+00	0.00E+00
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	3.11E-06	3.88E-06
2. Average Release Rate For Period	uCi/sec	3.96E-07	4.93E-07
3. Gross Alpha Radioactivity	Ci	3.60E-07	1.81E-07
D. Tritium			
1. Total Release	Ci	0.00E+00	5.40E+00
2. Average Release Rate For Period	uCi/sec	0.00E+00	6.87E-01

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	3.11E-01
2. Average Release Rate For Period	uCi/sec	0.00E+00	3.96E-02
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	4.81E-06	1.24E-06
2. Average Release Rate For Period	uCi/sec	6.12E-07	1.57E-07
3. Gross Alpha Radioactivity	Ci	2.12E-08	8.48E-08
D. Tritium			
1. Total Release	Ci	2.53E+01	1.25E+01
2. Average Release Rate For Period	uCi/sec	3.22E+00	1.58E+00

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.6-2 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR#1	QTR#2
A. Fission and Activation Gases			
1. Total Release	Ci	4.27E-01	6.30E-01
2. Average Release Rate For Period	uCi/sec	5.43E-02	8.02E-02
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	6.56E-06	3.76E-07
2. Average Release Rate For Period	uCi/sec	8.34E-07	4.78E-08
3. Gross Alpha Radioactivity	Ci	6.62E-07	1.27E-07
D. Tritium			
1. Total Release	Ci	1.17E+01	1.11E-01
2. Average Release Rate For Period	uCi/sec	1.49E+00	1.41E-02

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	8.57E-01	5.75E+00
2. Average Release Rate For Period	uCi/sec	1.09E-01	7.31E-01
B. Iodines			
1. Total Iodine-131	Ci	0.00E+00	2.96E-05
2. Average Release Rate For Period	uCi/sec	0.00E+00	3.76E-06
C. Particulates			
1. Particulates (Half Life > 8 days)	Ci	7.38E-06	1.55E-05
2. Average Release Rate For Period	uCi/sec	9.38E-07	1.98E-06
3. Gross Alpha Radioactivity	Ci	1.92E-08	1.27E-07
D. Tritium			
1. Total Release	Ci	7.06E+00	3.21E-01
2. Average Release Rate For Period	uCi/sec	8.99E-01	4.08E-02

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	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	
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	0.00E+00	0.00E+00	
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	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	0.00E+00	0.00E+00	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	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			

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	3.76E-07	0.00E+00
Y-90	Ci	3.76E-07	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110	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	2.36E-06	3.88E-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	3.11E-06	3.88E-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
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	1.31E-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	0.00E+00	1.73E-01	
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	7.34E-03	
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	3.11E-01	
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	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			
Sr-89	Ci	2.74E-06	3.13E-07			
Sr-90	Ci	2.66E-07	1.34E-07			

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.66E-07	1.34E-07
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110	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	1.54E-06	6.56E-07
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	4.81E-06	1.24E-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 # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	0.00E+00	1.16E-01	2.47E-01	
Kr-85m	Ci	0.00E+00	0.00E+00	1.23E-03	0.00E+00	
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	2.71E-02	
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	2.51E-01	3.46E-01	
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Xe-135	Ci	0.00E+00	0.00E+00	5.78E-02	1.01E-02	
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	4.27E-01	6.30E-01	
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	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			

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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

	Nuclides	Unit	Continuous Mode	
	Released		QTR#1	QTR#2
3. Particulates (> 8 Days) (continued)				
	Sr-89	Ci	8.39E-07	0.00E+00
	Sr-90	Ci	0.00E+00	1.14E-07
	Y-90	Ci	0.00E+00	1.14E-07
	Ru-103	Ci	0.00E+00	0.00E+00
	Ag-110	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	5.72E-06	1.48E-07
	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	6.56E-06	3.76E-07
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 # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	2.48E-01	6.64E-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	7.49E-02	2.31E+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	1.28E+00	0.00E+00	1.18E-03	
Xe-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Xe-133	Ci	0.00E+00	0.00E+00	5.22E-01	1.47E+00	
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Xe-135	Ci	0.00E+00	0.00E+00	1.21E-02	2.69E-02	
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	1.28E+00	8.57E-01	4.47E+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	2.96E-05			
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	2.96E-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			

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

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	1.44E-06	1.01E-05
Sr-90	Ci	2.77E-07	0.00E+00
Y-90	Ci	2.77E-07	0.00E+00
Ru-103	Ci	0.00E+00	0.00E+00
Ag-110	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	5.38E-06	5.49E-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	7.38E-06	1.55E-05
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
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.8-1
GASEOUS EFFLUENTS - DOSE SUMMATION

AGE GROUP: ADULT

Dose Pathway	Bone mrem	Liver mrem	Thyroid mrem	Kidney mrem
Inhalation	1.21E-07	1.38E-03	1.38E-03	1.38E-03
Grass-Goat-Milk	4.09E-06	2.01E-04	1.95E-04	1.97E-04
Ground Plane	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Garden	1.64E-07	3.96E-05	3.94E-05	3.95E-05
Meat	1.61E-07	5.28E-05	5.26E-05	5.26E-05
Total Dose	4.54E-06	1.67E-03	1.67E-03	1.67E-03

Dose Pathway	Lung mrem	GI-LLI mrem	Total Body mrem
Inhalation	1.38E-03	1.38E-03	1.38E-03
Grass-Goat-Milk	1.96E-04	1.95E-04	1.99E-04
Ground Plane	0.00E+00	0.00E+00	2.26E-05
Garden	3.94E-05	3.94E-05	3.95E-05
Meat	5.26E-05	5.26E-05	5.27E-05
Total Dose	1.67E-03	1.67E-03	1.69E-03

Sector : WSW	Range:	3.43	miles
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Noble Gases	mrads
Gamma Air Dose	4.09E-05
Beta Air Dose	1.99E-05
Sector: WNW	Range: 0.97 miles

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 2
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

TABLE 3.8-2
GASEOUS EFFLUENTS - DOSE SUMMATION

AGE GROUP: ADULT

Dose Pathway	Bone mrem	Liver mrem	Thyroid mrem	Kidney mrem
Inhalation	2.46E-07	6.14E-04	6.17E-04	6.14E-04
Grass-Goat-Milk	8.10E-06	9.78E-05	8.78E-05	9.05E-05
Ground Plane	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Garden	3.26E-07	1.80E-05	1.80E-05	1.77E-05
Meat	3.18E-07	2.38E-05	2.34E-05	2.35E-05
Total Dose	8.99E-06	7.54E-04	7.46E-04	7.46E-04

Dose Pathway	Lung mrem	GI-LLI mrem	Total Body mrem
Inhalation	6.14E-04	6.14E-04	6.14E-04
Grass-Goat-Milk	8.80E-05	8.69E-05	9.40E-05
Ground Plane	0.00E+00	0.00E+00	4.47E-05
Garden	1.76E-05	1.75E-05	1.78E-05
Meat	2.34E-05	2.34E-05	2.37E-05
Total Dose	7.43E-04	7.42E-04	7.95E-04

Sector : WSW	Range: 3.43 miles
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Noble Gases	mrad
Gamma Air Dose	4.19E-04
Beta Air Dose	4.20E-04
Sector: WNW	Range: 0.97 miles

FLORIDA POWER AND LIGHT COMPANY
ST. LUCIE PLANT
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005
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	5.79E+0	2.0 E+1
	Ci	2.68E+2	
b. Dry Compressible Waste (Note 5)	M3	2.78E+2	2.0 E+1
	Ci	3.94E+0	
c. Irradiated Components	M3	0	N/A*
	Ci	0	
d. Other	M3	0	N/A*
	Ci	0	

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

Category	Nuclides	%
a.	Fe 55	3.09E+1
	Ni 63	2.72E+1
	Co 60	1.69E+1
	Cs 137	1.16E+1
	Cs 134	5.24E+0
	Mn 54	3.61E+0
	Co 58	3.05E+0
	Sb 125	4.70E-1
	Ce 144	4.40E-1
b.	Fe 55	4.08E+1
	Ni 63	1.47E+1
	Co 60	1.46E+1
	Cs 137	8.89E+0
	Co 58	7.52E+0
	Cr 51	4.00E+0
	Nb 95	2.12E+0
	Mn 54	2.04E+0
	Cs 134	1.74E+0
	Zr 95	1.13E+0
	Sb 125	9.50E-1
	Ce 144	8.10E-1
c.	N/A*	N/A*

2. Estimate of major nuclide composition (continued)

Category	Nuclide	%
d.	N/A*	N/A*

3. Solid Waste Disposition.

Number of Shipments	Mode of Transportation	Destination
1	Sole Use Truck	CNS- Barnwell, SC
14	Sole Use Truck	Duratek- Oak Ridge, TN
7	Sole Use Truck	Studsvik- Erwin, TN
41	Sole Use Truck	RACE- Memphis, TN

B. Irradiated Fuel Shipments

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

*N/A = Not Applicable

FLORIDA POWER AND LIGHT COMPANY
ST. LUCIE PLANT
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005
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	9832.20	3.94E+0	N/A	PWR Compressible Waste (note 5)	1.b.	Non- Specification Strong Tight Package	None
Class A	2.34	8.97E-2	Ni 63, Cs 137	PWR Ion- Exchange Resin (note 6)	1.a.	NRC Certified Type B	None
Class B	2.02	1.38E+1	C 14, Tc99, I129, Co 60, Ni 63, Cs 137, Sr 90, Nuclides T1/2 < 5yr.	PWR Ion- Exchange Resin (note 6)	1.a.	NRC Certified Type B	None
Class C	132.4	5.88E+1	Pu 241, Co 60, Ni 63, Cs 137, Sr 90, Nuclides T1/2 <5 yrs., TRU	PWR Process Filters	1.a.	NRC Certified Type B	None
Class C	67.70	1.95E+2	C 14, Tc 99, I 129, TRU, Co 60, Ni 63, Cs 137, Sr 90, Nuclides T 1/2 <5 yrs.	PWR Ion- Exchange Resin	1.a.	NRC Certified Type B	None

FLORIDA POWER AND LIGHT COMPANY
ST. LUCIE PLANT
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005
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 involve, 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, fifty-five (55) shipments of dry active waste, non-compressible waste, and resins (88,916.6 cubic feet, 2.00 E+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, strong tight 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, seven (7) shipments of bead resin and process filters (590.0 cubic feet, 3.22E+2 curies) were made from the St. Lucie Plant to the contract vendor for volume reduction and disposal.

FLORIDA POWER & LIGHT COMPANY
ST. LUCIE UNIT # 1
ANNUAL REPORT
JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

ATTACHMENT A

Unit 1 Liquid Release Monitor Out of Service for Greater Than 30 Days

The Liquid Radiation Detector channel RE-6627 was declared out of service on August 20th, 2005, due to a failure to the "Loss of Flow" alarm. Several factors contributed to having the monitor out service for a period longer than thirty days:

1. Several new flow switches installed in the monitor failed their post maintenance tests. New flow switches had to be ordered which delayed post maintenance testing.
2. Coordination to perform post maintenance testing after repairs was delayed due to the fact that it can take up to a week to accumulate the required volume in the waste monitor tanks to perform the post maintenance test.

On October 7th, 2005 after several successful post maintenance tests, the monitor was declared back in service.