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FLORIDA POWER & LIGHT COMPANY

ST. LUCIE PLANT UNIT #1

LICENSE #DPR-67

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

FOR THE PERIOD

JULY 1, 1981 THROUGH DECEMBER 31, 1981

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Retrofit
Document

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EFFLUENT + WASTE DISPOSAL SUPPLEMENTAL INFORMATION

1. Regulatory Limits

1.1 For liquid waste effluents

a. The concentration of radioactive materials released in liquid waste effluents from all reactors at the site shall not exceed the value specified in 10 CFR Part 20, Appendix B, Table II, Column 2, for unrestricted areas.

b. The cumulative release of radioactive materials in liquid waste effluents, excluding tritium and dissolved gases, shall not exceed 10 Ci/reactor/calendar quarter.

c. The cumulative release of radioactive material in liquid waste effluents, excluding tritium and dissolved gases, shall not exceed 20 Ci/reactor in any 12 consecutive months.

1.2 For gaseous waste effluents

a. (1) The release rate limit of noble gases from the site shall be such that

$$2.0\ (Q_{T_V}\ \overline{K}_V) \leq 1$$

and

$$0.33\ (Q_{T_V}\ (\overline{L}_V + 1.1\ \overline{N}_V)\ ) \leq 1$$

(2) The release rate limit of all radioiodines and radioactive materials in particulate form with half-lives greater than eight days, released to the environs as part of the gaseous wastes from the site shall be such that

$$5.5 \times 10^3\ \ Q_V \leq 1$$

b. (1) The average release rate of noble gases from the site during any calendar quarter shall be such that

$$13\ (Q_{T_V}\ \ \overline{N}_V) \leq 1$$

and

$$6.3\ (Q_{T_V}\ \overline{M}_V) \leq 1$$

Effluent + Waste Disposal Supplemental Information, Continued

1. Regulatory Limits, Continued

1.2-b Continued

(2) The average release rate of gases from the site during any 12 consecutive months shall be

$$25\ (Q_{T_V}\ \bar{N}_V) \leq 1$$

and

$$13\ (Q_{T_V}\ \bar{M}_V) \leq 1$$

(3) The average release rate per site of all radioiodines and radioactive materials in particulate form with half-lives greater than eight days during any calendar quarter shall be such that

$$13\ (5.5 \times 10^3 Q_V) \leq 1$$

(4) The average release rate per site of all radioiodines and radioactive materials in particulate form with half-lives greater than eight days during any period of 12 consecutive months shall be such that

$$25\ (5.5 \times 10^3\ Q_V) \leq 1$$

(5) The amount of iodine -131 released during any calendar quarter shall not exceed 2 Ci/reactor.

(6) The amount of iodine -131 released during any period of the 12 consecutive months shall not exceed 4 Ci/reactor.

2. Maximum Permissible Concentrations

AIR - 10 CFR Part 20, Appendix B, Table II, Column 1

WATER - 10 CFR Part 20, Appendix B, Table II, Column 2

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

4. Measurements and Approximations of Total Radioactivity

A summary of liquid effluent accounting methods is described in Table 4.1.

A summary of gaseous effluent accounting methods is described in Table 4.2.

Effluent + Waste Disposal Supplemental Information, Continued

4. Measurements and Approximations of Total Radioactivity, Continued

Estimate of Errors

(a) Sampling Error.

The error associated with volume measurement devices, flow measuring devices, etc. based on calibration data and design tolerances has been conservatively estimated collectively to be less than ± 10%.

(b) Analytical Error for Nuclides

Type	Average	Maximum
Liquid	± 9%	± 30%
Gaseous	± 10%	± 35%

Table 4.1
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	L.S.
		Gross Alpha	G.F.P.
	QUARTERLY COMPOSITE	Sr-89, Sr-90	C.S.& L.S.
STEAM GENERATOR BLOWDOWN RELEASES	WEEKLY	Principal Gamma Emitters and Dissolved Gases	p.h.a.
	MONTHLY COMPOSITE	Tritium	L.S.
		Gross Alpha	L.F.P.
	QUARTERLY COMPOSITE	Sr-89, Sr-90	C.S.&L.S.

TABLE NOTATION:

[1]Boric Acid Evaporator condensate is normally recovered to the Primary Water Storage Tank for recycling into the reactor coolant system and does not contribute to liquid waste effluent totals.

p.h.a. - gamma spectrum pulse height analysis using Lithium Germanium detectors. All peaks are identified and quantified.

L.S. - Liquid Scintillation counting

C.S. - Chemical Separation

G.F.P. - Gas Flow Proportional Counting

Effluent + Waste Disposal Supplemental Information, Continued

4. Measurements and Approximations of Total Radioactivity, Continued

(b) Continued

Table 4.2
Radioactive Gaseous Waste Sampling and Analysis

Gaseous Source	Sampling Frequency	Type of Analysis	Method of Analysis
Waste Gas Decay Tank Releases	Each Tank	Principal Gamma Emitters	(G, C, P) - p.h.a.
		H-3	L.S.
Containment Purge Releases	Each Purge	Principal Gamma Emitters	(G, C, P) - p.h.a.
		H-3	L.S.
Plant Vent	Weekly	Principal Gamma Emitters	(G, C, P) - p.h.a.
		H-3	L.S.
	Monthly Composite (Particulates)	Gross Alpha	P - G.F.P.
	Quarterly Composite (Particulates)	Sr-90, 89	C.S. & L.S.

G - Gaseous Grab Sample
C - Charcoal Filter Sample
P - Particulate Filter Sample
L.S. - Liquid Scintillation counting
C.S. - Chemical Separation
p.h.a. - gamma spectrum pulse height analysis using Lithium Germanium detectors. All peaks are identified and quantified.
G.F.P. - Gas Flow Proportional Counting

Effluent + Waste Disposal Supplemental Information (cont.)

5. Batch Releases

A. Liquid

1. Number of batch releases:	25
2. Total time period of batch releases:	13210 minutes
3. Maximum time period for a batch release:	860 minutes
4. Average time period for a batch release:	528 minutes
5. Minimum time period for a batch release:	360 minutes
6. Average stream flow during periods of release of effluent into a flowing stream:	299,622 gpm

All liquid releases are summarized in Tables 5.1 & 5.2

B. Gaseous

1. Number of batch releases:	41
2. Total time period for batch releases:	13034 minutes
3. Maximum time period for a batch release:	600 minutes
4. Average time period for batch releases:	318 minutes
5. Minimum time period for a batch release:	5 minutes

All gaseous waste releases are summarized in Tables 5.3 & 5.4

6. Abnormal Releases

A. Liquid

1. Number of releases:	0
2. Total activity released:	0.0 Curies

B. Gaseous

1. Number of releases:	0
2. Total activity released:	0.0 Curies

7. Solid waste and irradiated fuel shipments

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FLORIDA POWER & LIGHT COMPANY

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Table 5.1 : Liquid Effluents - Summation of all releases

	UNIT	QUARTER# 3	QUARTER# 4
A. Fission and Activation products			
1. Total release (not including tritium, gases, alpha)	Ci	4.594 E-1	1.524 E 0
2. Average diluted concentration during period	uCi/ml	5.040 E-8	2.596 E-7
3. Percent of applicable limit	%	4.594 E 0	1.524 E 1
B. Tritium			
1. Total release	Ci	1.178 E 2	4.15 E 1
2. Average diluted concentration during period	uCi/ml	1.292 E-5	7.074 E-6
C. Dissolved and entrained gases			
1. Total release	Ci	5.014 E-1	7.389 E-2
2. Average diluted concentration during period	uCi/ml	5.501 E-8	1.260 E-8
D. Gross alpha radioactivity			
1. Total release	Ci	0 E 0	0 E 0
E. Volume of waste released (prior to dilution)	Liters	1.109 E 6	1.221 E 6
F. Volume of dilution water used during period	Liters	9.114 E 9	5.867 E 9

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Table 5.2 : Liquid Effluents

		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter# 3	Quarter# 4	Quarter# 3	Quarter# 4
I-131	Ci	4.410 E-3	0 E 0	1.740 E-2	1.430 E-2
I-132	Ci	4.140 E-4	0 E 0	3.230 E-4	0 E 0
I-133	Ci	2.140 E-3	0 E 0	3.170 E-3	4.070 E-3
I-134	Ci	0 E 0	0 E 0	3.790 E-4	0 E 0
I-135	Ci	9.190 E-4	0 E 0	7.090 E-4	0 E 0
Na- 24	Ci	4.530 E-5	0 E 0	8.820 E-5	6.050 E-5
Cr- 51	Ci	0 E 0	0 E 0	3.630 E-2	1.597 E-1
Mn- 54	Ci	0 E 0	0 E 0	3.170 E-3	2.133 E-2
Mn- 56	Ci	0 E 0	0 E 0	7.780 E-3	0 E 0
Co- 57	Ci	0 E 0	0 E 0	2.700 E-4	9.960 E-4
Co- 58	Ci	0 E 0	0 E 0	1.916 E-1	2.130 E-1
Fe- 59	Ci	0 E 0	0 E 0	1.910 E-3	6.240 E-3
Co- 60	Ci	2.510 E-4	0 E 0	9.310 E-2	9.120 E-1
Zn- 65	Ci	0 E 0	0 E 0	7.060 E-4	1.727 E-3
Ni- 65	Ci	0 E 0	0 E 0	2.020 E-3	3.250 E-4
Ag-110m	Ci	0 E 0	0 E 0	5.12 E-4	6.450 E-3
Sn-113	Ci	0 E 0	0 E 0	3.510 E-4	3.230 E-3
Sb-122	Ci	0 E 0	0 E 0	1.480 E-3	4.280 E-3
Sb-124	Ci	0 E 0	0 E 0	2.580 E-2	2.090 E-2
W-187	Ci	0 E 0	0 E 0	4.170 E-3	2.860 E-4
Np-239	Ci	0 E 0	0 E 0	2.290 E-4	2.780 E-5
Rb- 88	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Zr- 95	Ci	0 E 0	0 E 0	1.010 E-2	2.530 E-2
Nb- 95	Ci	0 E 0	0 E 0	1.510 E-4	1.010 E-2
Mo- 99	Ci	0 E 0	0 E 0	1.790 E-3	2.83 E-4
Ru-103	Ci	0 E 0	0 E 0	1.280 E-4	5.52 E-5
Cs-134	Ci	2.670 E-4	0 E 0	7.120 E-3	6.620 E-2
Cs-136	Ci	0 E 0	0 E 0	1.950 E-4	1.160 E-3
Cs-137	Ci	4.490 E-4	0 E 0	1.570 E-2	2.850 E-2
Ba-140	Ci	0 E 0	0 E 0	4.540 E-4	0 E 0
La-140	Ci	0 E 0	0 E 0	4.540 E-4	9.440 E-4
Ce-141	Ci	0 E 0	0 E 0	1.280 E-4	7.40 E-5
Br- 82	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Zr- 97	Ci	0 E 0	0 E 0	5.730 E-3	6.730 E-4
Nb- 97	Ci	0 E 0	0 E 0	5.730 E-3	1.825 E-4
Tc- 99m	Ci	0 E 0	0 E 0	1.790 E-3	1.490 E-4
In-113m	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Sb-125	Ci	0 E 0	0 E 0	9.050 E-3	1.590 E-2
Ce-144	Ci	0 E 0	0 E 0	1.770 E-4	4.705 E-3
Pr-144	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Sr- 89	Ci	0 E 0	0 E 0	3.3 E-4	2.2 E-3
Sr- 90	Ci	0 E 0	0 E 0	9.1 E-5	2.77 E-4
Unidentified	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Total for period (above)	Ci	8.895 E-3	0 E 0	4.504 E-1	1.524 E 0

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Table 5.2 : Liquid Effluents (Cont.)

		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter# 3	Quarter# 4	Quarter# 3	Quarter# 4
Ar- 41	Ci	0 E 0	0 E 0	9.470 E-5	0 E 0
Kr- 85	Ci	0 E 0	0 E 0	1.580 E-2	6.470 E-2
Kr- 85m	Ci	0 E 0	0 E 0	9.680 E-5	0 E 0
KR- 87	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Kr- 88	Ci	6.190 E-5	0 E 0	0 E 0	0 E 0
Xe-131m	Ci	0 E 0	0 E 0	2.580 E-3	4.31 E-3
Xe-133	Ci	2.60 E-2	0 E 0	4.430 E-1	4.550 E-3
Xe-133m	Ci	0 E 0	0 E 0	5.850 E-3	0 E 0
Xe-135	Ci	1.210 E-3	0 E 0	6.70 E-3	3.330 E-4
Xe-135m	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Xe-138	Ci	0 E 0	0 E 0	3.50 E-5	0 E 0

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Table 5.3 : Gaseous Effluents - Summation of all releases

		UNIT	QUARTER# 3	QUARTER# 4
A.	Fission and Activation Gases			
	1. Total release	Ci	7.140 E 3	1.682 E 3
	2. Average release rate for period	uCi/sec	8.982 E 2	2.114 E 2
	3. Percent of Tech. Spec. limit	%	1.533 E 0	3.671 E-1
B.	Iodines			
	1. Total Iodine-131	Ci	2.263 E-2	1.776 E-2
	2. Average release rate for period	uCi/sec	2.847 E-3	2.234 E-3
	3. Percent of Tech. Spec. limit	%	1.132 E 0	8.880 E-1
C.	Particulates			
	1. Particulates T-1/2 > 8 days	Ci	1.180 E-6	1.790 E-4
	2. Average release rate for period	uCi/sec	1.485 E-7	2.252 E-5
	3. Percent of Tech. Spec. limit	%	2.037 E-2	1.614 E-2
	4. Gross alpha radioactivity	Ci	0 E 0	5.79 E-8
D.	Tritium			
	1. Total release	Ci	1.280 E 2	8.602 E 1
	2. Average release rate for period	uCi/sec	1.610 E 1	1.082 E 1

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Table 5.4 : Gaseous Effluents

Nuclides Released	Unit	Continuous Mode Quarter# 3	Continuous Mode Quarter# 4	Batch Mode Quarter# 3	Batch Mode Quarter# 4
1. Fission Gases					
Ar- 41	Ci	0 E 0	0 E 0	6.420 E 0	0 E 0
Kr- 85	Ci	0 E 0	1.950 E 1	3.15 E 1	6.97 E 0
Kr- 85m	Ci	2.95 E-1	5.46 E 0	1.141 E 2	8.80 E 0
Kr- 87	Ci	0 E 0	0 E 0	7.54 E 1	1.21 E 1
Kr- 88	Ci	0 E 0	6.47 E 0	1.73 E 2	2.33 E 1
Xe-131m	Ci	0 E 0	1.17 E 1	2.688 E 2	7.48 E 1
Xe-133	Ci	7.16 E 2	2.44 E 2	5.375 E 3	1.10 E 3
Xe-133m	Ci	0 E 0	0 E 0	8.485 E 1	2.14 E 1
Xe-135	Ci	9.95 E 1	5.06 E 1	9.53 E 1	7.97 E 1
Xe-135m	Ci	0 E 0	0 E 0	3.37 E 1	7.08 E 0
Xe-138	Ci	0 E 0	0 E 0	6.62 E 1	1.00 E 1
Unidentified	Ci	0 E 0	0 E 0	0 E 0	0 E 0
Total for period (above)	Ci	8.158 E 2	3.377 E 2	6.324 E 3	1.345 E 3
2. Iodines					
I-131	Ci	2.26 E-2	1.396 E-2	2.85 E-5	3.80 E-3
I-132	Ci	5.04 E-4	0 E 0	0 E 0	0 E 0
I-133	Ci	3.76 E-2	1.02 E-2	4.24 E-7	6.21 E-4
I-135	Ci	1.11 E-3	0 E 0	0 E 0	2.76 E-5
Total for period (above)	Ci	6.181 E-2	2.416 E-2	2.892 E-5	4.449 E-3
3. Particulates					
Co- 58	Ci	0 E 0	3.30 E-5	0 E 0	0 E 0
Co- 60	Ci	1.18 E-6	1.41 E-4	0 E 0	0 E 0
Ba-140	Ci	0 E 0	0 E 0	0 E 0	2.51 E-6
La-140	Ci	0 E 0	0 E 0	0 E 0	2.51 E-6

The following information pertains to Quarter# 3, 1981 of this semiannual reporting period.

Qtv equals 8.982 E-4 curies/sec

K-bar equals 5.632 E-1 rem/yr/Ci/sec

L-bar equals 1.197 E 0 rem/yr/Ci/sec

M-bar equals 2.709 E 0 rad/yr/Ci/sec

N-bar equals 6.579 E-1 rad/yr/Ci/sec

Qv equals 2.847 E-9 Curies/sec

This report is for Quarter# 3, 1981 as per Appendix B Environmental Technical Specifications.

Section 2.4.3.B (1) The average release rate of noble gases from the site during any calendar quarter shall be such that :

13(Qtv*N-bar) < or = 1

7.682 E-3 < 1.0

and 6.3(Qtv*M-bar) < or = 1

1.533 E-2 < 1.0

Section 2.4.3.B.(3) The average release rate per site of all radioiodines and radioactive materials in particulate form with half-lives > 8 days during any calendar quarter shall be such that :

13(5.5 E 3*Qv) < or = 1

2.037 E-4 < 1.0

Section 2.4.3.B.(5) The amount of Iodine-131 released during any calendar quarter shall not exceed 2 Ci/Reactor

2.263 E-2 < 2.0

Investigate and report to NRC in 30 days if :

Section 2.4.3.C.(1) If the average release rate of noble gases from the site during any calendar quarter is such that

50(Qtv*N-bar) > 1

2.955 E-2 < 1.0

or 25(Qtv*M-bar) > 1

6.083 E-2 < 1.0

Section 2.4.3.C.(2) If the average release rate per site of all radioiodines and radioactive materials in particulate form with half-lives > 8 days during any calendar quarter is such that

50(5.5 E 3*Qv) > 1

7.829 E-4 < 1.0

Section 2.4.3.C.(3) If the amount of I-131 released during any calendar quarter is > 0.5 Curies/reactor

2.263 E-2 < 0.5

The following information pertains to Quarter# 4, 1981 of this semiannual reporting period.

Qtv equals 2.114 E-4 curies/sec

K-bar equals 5.695 E-1 rem/yr/Ci/sec

L-bar equals 1.255 E 0 rem/yr/Ci/sec

M-bar equals 2.756 E 0 rad/yr/Ci/sec

N-bar equals 6.632 E-1 rad/yr/Ci/sec

Qv equals 2.257 E-9 Curies/sec

This report is for Quarter# 4, 1981 as per Appendix B Environmental Technical Specifications.

Section 2.4.3.B.(1) The average release rate of noble gases from the site during any calendar quarter shall be such that :

13(Qtv*N-bar) < or = 1

1.823 E-3 < 1.0

and 6.3(Qtv*M-bar) < or = 1

3.671 E-3 < 1.0

Section 2.4.3.B.(3) The average release rate per site of all radioiodines and radioactive materials in particulate form with half-lives > 8 days during any calendar quarter shall be such that :

13(5.5 E 3*Qv) < or = 1

1.614 E-4 < 1.0

Section 2.4.3.B.(5) The amount of Iodine-131 released during any calendar quarter shall not exceed 2 Ci/Reactor

1.776 E-2 < 2.0

Investigate and report to NRC in 30 days if :

Section 2.4.3.C.(1) If the average release rate of noble gases from the site during any calendar quarter is such that

50(Qtv*N-bar) > 1

7.010 E-3 < 1.0

or 25(Qtv*M-bar) > 1

1.457 E-2 < 1.0

Section 2.4.3.C.(2) If the average release rate per site of all radioiodines and radioactive materials in particulate form with half-lives > 8 days during any calendar quarter is such that

50(5.5 E 3*Qv) > 1

6.207 E-4 < 1.0

Section 2.4.3.C.(3) If the amount of I-131 released during any calendar quarter is > 0.5 Curies/reactor

1.776 E-2 < 0.5

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981.

STABILITY CLASS: A

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	3.00	1.00	0.00	0.00	4.00
NNE	0.00	1.00	4.00	0.00	0.00	0.00	5.00
NE	0.00	2.00	0.00	0.00	0.00	0.00	2.00
ENE	0.00	0.00	2.00	0.00	0.00	0.00	2.00
E	0.00	0.92	7.00	0.00	0.00	0.00	7.92
ESE	0.00	0.00	6.00	1.00	0.00	0.00	7.00
SE	0.00	0.00	2.00	2.00	2.00	0.00	6.00
SSE	0.00	0.00	0.00	1.17	0.00	0.00	1.17
S	1.00	1.00	0.00	0.00	1.00	1.00	4.00
SSW	0.00	0.00	0.00	1.00	2.00	0.00	3.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	1.00	0.00	0.00	0.00	1.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	1.00	4.92	25.00	6.17	5.00	1.00	43.08

PERIODS OF CALM(HRS): 0.00

HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981

STABILITY CLASS: B

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	1.00	0.00	1.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	1.00	0.00	1.00
SSE	0.00	0.00	1.00	0.00	0.00	0.00	1.00
S	0.00	0.00	0.00	0.00	1.00	0.00	1.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	0.00	1.00	0.00	3.00	0.00	4.00

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981

STABILITY CLASS: C

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1.00	0.00	0.00	0.00	0.00	0.00	1.00
NNE	0.00	1.00	0.00	0.00	0.00	0.00	1.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	1.00	0.00	0.00	0.00	0.00	1.00
ESE	0.00	0.00	1.00	1.00	0.00	0.00	2.00
SE	1.00	0.00	1.00	1.83	0.00	0.00	3.83
SSE	0.00	0.00	1.00	0.00	0.00	0.00	1.00
S	0.00	0.00	0.00	0.00	1.58	0.00	1.58
SSW	0.00	0.00	1.00	0.00	0.00	0.00	1.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	1.00	0.00	0.00	1.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
NW	0.00	0.00	0.92	0.00	0.00	0.00	0.92
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT	2.00	3.00	4.92	3.83	1.58	0.00	15.33

PERIODS OF CALM(HRS): 0.00

HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981

STABILITY CLASS: D

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	1.00	1.00	1.00	0.00	0.00	3.00
NNE	0.00	2.00	6.83	1.00	0.00	0.00	9.83
NE	0.00	2.00	4.95	1.00	0.00	0.00	7.95
ENE	0.00	4.00	4.00	1.00	0.00	0.00	9.00
E	0.00	3.33	1.73	2.00	0.00	0.00	7.07
ESE	0.00	1.00	9.92	2.00	0.00	0.00	12.92
SE	0.00	0.00	6.18	3.00	0.00	0.00	9.18
SSE	0.00	1.00	1.50	1.00	0.00	0.00	3.50
S	0.00	2.00	0.00	0.00	0.00	0.00	2.00
SSW	0.00	1.00	1.00	0.00	0.00	0.00	2.00
SW	0.00	2.00	2.00	0.00	0.00	0.00	4.00
WSW	0.00	0.00	1.00	0.00	0.00	0.00	1.00
W	0.00	4.37	0.00	0.00	0.00	0.00	4.37
WNW	0.00	0.00	1.00	0.00	0.00	0.00	1.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	1.00	1.00	0.00	0.00	0.00	2.00
TOT.	0.00	24.70	42.12	12.00	0.00	0.00	78.82

PERIODS OF CALM(HRS): 0.00

HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981

STABILITY CLASS: E

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	1.00	0.00	0.00	0.00	0.00	1.00
NNE	0.00	1.67	0.00	0.00	0.00	0.00	1.67
NE	0.00	1.00	0.00	0.00	0.00	0.00	1.00
ENE	0.00	4.42	1.00	0.00	0.00	0.00	5.42
E	0.00	1.00	0.00	0.00	0.00	0.00	1.00
ESE	0.00	0.00	1.00	2.00	0.00	0.00	3.00
SE	0.00	3.08	4.00	1.28	0.00	0.00	8.37
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	2.00	0.00	0.00	0.00	0.00	2.00
SSW	0.00	1.00	2.88	0.00	0.00	0.00	3.88
SW	0.00	1.00	1.00	0.00	0.00	0.00	2.00
WSW	0.00	0.00	1.00	0.00	0.00	0.00	1.00
W	0.00	2.00	0.00	0.00	0.00	0.00	2.00
WNW	0.00	0.42	0.00	0.00	0.00	0.00	0.42
NW	0.00	2.00	0.00	0.00	0.00	0.00	2.00
NNW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
TOT.	0.00	21.58	10.88	3.28	0.00	0.00	35.75

PERIODS OF CALM(HRS): 1.00

HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981

STABILITY CLASS: F

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	1.00	0.00	0.00	0.00	1.00
ESE	0.00	0.00	1.00	1.00	0.00	0.00	2.00
SE	0.00	0.00	1.00	0.00	0.00	0.00	1.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	0.00	3.00	1.00	0.00	0.00	4.00

PERIODS OF CALM(HRS): 0.00

HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 3 1981

STABILITY CLASS: G

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: A

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT. LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	1.00	0.00	0.00	0.00	1.00
S	0.00	0.00	0.83	0.00	0.00	0.00	0.83
SSW	0.00	0.00	3.00	0.00	0.00	0.00	3.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	1.00	2.00	0.00	0.00	3.00
WNW	0.00	0.00	0.00	0.00	1.00	0.00	1.00
NW	0.00	0.00	0.00	1.00	2.00	1.00	4.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	0.00	5.83	3.00	3.00	1.00	12.83

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

OURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: B

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

OURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: C

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	1.00	0.00	0.00	1.00
SSW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	1.00	0.00	1.00	0.00	0.00	2.00

PERIODS OF CALM(HRS): 0.00

HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: D

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	1.00	2.00	0.00	0.00	0.00	3.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	3.00	0.00	0.00	0.00	3.00
SSW	0.00	0.00	3.00	0.00	0.00	0.00	3.00
SW	0.00	0.00	1.00	0.00	0.00	0.00	1.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	3.92	6.75	0.00	0.00	10.67
WNW	0.00	0.00	0.00	4.00	1.50	0.00	5.50
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.75	0.00	0.00	0.00	0.75
TOT:	0.00	1.00	13.67	10.75	1.50	0.00	26.92

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

OURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: E

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	1.00	0.33	0.00	0.00	1.33
SSW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
SW	0.00	0.00	2.00	0.00	0.00	0.00	2.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	1.75	0.00	0.00	0.00	1.75
WNW	0.00	0.00	0.00	1.00	0.00	0.00	1.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	1.00	4.75	1.33	0.00	0.00	7.08

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTIO

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: F

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
SW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
WSW	0.00	0.00	0.33	0.00	0.00	0.00	0.33
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	2.00	0.33	0.00	0.00	0.00	2.33

PERIODS OF CALM(HRS): 0.00
HOURS OF MISSING DATA: 0.00

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF REPORT: QUARTER # 4 1981

STABILITY CLASS: G

ELEVATION: 190 FT.

WIND DIRECTION	WIND SPEED(MPH)AT 190 FT LEVEL 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	1.00	0.00	0.00	0.00	1.00
SSW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
SW	0.00	1.00	0.00	0.00	0.00	0.00	1.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	1.00	0.00	0.00	1.00
WNW	0.00	0.00	2.00	0.00	0.00	0.00	2.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT.	0.00	2.00	3.00	1.00	0.00	0.00	6.00

PERIODS OF CALM(HRS): 0.00

HOURS OF MISSING DATA: 0.00

EFF NT AND WASTE DISPOSAL SEMIANNUAL REPOF EAR)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

July 1, 1981 thru December 31, 1981

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

1. Type of waste	Unit	6-month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m^3	1.05 E1	
	Ci	2.67 E2	2.0 E1
b. Dry compressible waste, contaminated equip, etc.	m^3	1.12 E2	
	Ci	4.37 E0	2.0 E1
c. Irradiated components, control rods, etc.	m^3	. E	
	Ci	. E	. E
d. Other (describe)	m^3	. E	
	Ci	. E	. E

2. Estimate of major nuclide composition (by type of waste)

a.	CO 60	%	6.0 E1
	CO 58	%	2.4 E1
	Cs-137	%	1.0 E1
	Cs 134	%	6.0 E0
		%	. E
		%	. E
b.	CO 60	%	3.5 E1
	Cs 137	%	3.0 E1
	CO 58	%	1.5 E1
	Cs-134	%	1.5 E1
	MN 54	%	5.0 E0
		%	. E

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
8	Sole Use Truck	Barnwell, S. C.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

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

Docket File
KL
P. O. BOX 529100 MIAMI, FL 33152

FPL

FLORIDA POWER & LIGHT COMPANY

March 2, 1982
L-82-76

Mr. James P. O'Reilly
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

Re: St. Lucie Unit 1
Docket No. 50-335
Radioactive Effluent Release Report

Two copies of the St. Lucie Unit 1 Semiannual Radioactive Effluent Report for the period of July 1 to December 31, 1981 are attached. This report is submitted in compliance with Environmental Technical Specification 5.6.1.c.

Very truly yours,

J A De Mastry for

Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/PLP/mbd

Attachment

cc: Director, Office of Inspection and Enforcement (6)
Harold F. Reis, Esquire

IE25
1/1
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82-28

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AUTH.NAME AUTHOR AFFILIATION
UHRIG,R.E. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
O'REILLY,J.P. Region 2, Office of Director

SUBJECT: "Semmiannual Radioactive Effluent Release Rept, Jul-Dec 1981." W/820302 ltr.

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