



**FPL**

Florida Power & Light Company, 6501 S. Ocean Drive, Jensen Beach, FL 34957

May 26, 2003

L-2003-134  
10 CFR 74.13  
10 CFR 74.15

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Re: St. Lucie Unit 2  
Docket No. 50-389  
Nuclear Material Inventory

Pursuant to 10 CFR 74.13 and 10 CFR 74.15, Florida Power and Light Company (FPL) is submitting the nuclear material status reports for Unit 2 covering the period from October 1, 2002 to March 26, 2003. The attachment to this letter contains a printed listing of the data contained on the diskette and a completed diskette transmittal form.

By copy of this letter, a computer diskette that contains the report information in computer-readable format is being sent to the Nuclear Assurance Corporation in accordance with NMMSS Report D-24.

This is the first report being issued for Unit 2 pursuant to the new Final Rule issued by Federal Register 67 FR 78144, dated December 23, 2002. The revised 10 CFR 74.13 changed both the frequency and timing of the subject report. The report will now be issued within 60 days from the beginning of the physical inventory.

Please contact us should there be any questions concerning this information.

Very truly yours,

William Jefferson, Jr.  
Vice President  
St. Lucie Plant

WJ/spt

Attachment

cc: Nuclear Assurance Corporation, w/ (1) computer diskette

*NMMSS01*

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## DISKETTE TRANSMITTAL FORM

Florida Power & Light Co.  
St. Lucie Unit 2

RIS: XSG

Diskette Name: XSG\_03262003

FILENAME	SIZE (bytes)	DATE	DOS VERSION
XSG_742_03262003.T10.txt	3,069	5/13/2003	Windows 2000
XSG_742_03262003.T20.txt	3,464	5/13/2003	Windows 2000
XSG_742_03262003.T50.txt	3,306	5/13/2003	Windows 2000
XSG_742_03262003.T83.txt	1,702	5/13/2003	Windows 2000
XSG_742_03262003.TE4.txt	1,722	5/13/2003	Windows 2000
XSG_742C_03262003.ALL.txt	1,178	5/13/2003	Windows 2000
XSG_741_03262003.ALL.txt	11,487	5/13/2003	Windows 2000

CONTACT NAME & PHONE  
Modesto Jimenez (561) 694-3323

Certified By:



C. Villard  
Manager of Nuclear Fuel

Date:

5/14/03

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**Listing of SMN Reports Data Contained in Diskett**  
**St. Lucie Unit 2**  
**RIS: XSG**  
**Period: 10/01/02 to 3/26/03**

DOE/NRC FORM 742 - MATERIAL BALANCE REPORTS

1. Florida Power & Light Co. 2. NPF-16 SNM-1902 3. XSG  
6501 South Ala  
Jensen Beach, FL 34957 4. FROM 10012002 TO 03262003 5. E1

SECTION A - MATERIAL ACCOUNTABILITY

	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
7. DOE/NRC 740M ATTACHED - NO		
9. BEGINNING INVENTORY - NOT DOE OWNED	304913036	3504890
21. PRODUCTION	0	0
22. FROM OTHER MATERIALS a. ICT DE	625362	6214
22. b. ICT	0	0
30. RECEIPTS REPORTED TO DOE/NRC		
FROM: RIS YLM	30408213	1159015
40. TOTAL (LINES 8-39)	335946611	4670119
51. SHIPMENTS REPORTED TO DOE/NRC		
65. ROUNDING BIAS	0	0
71. DEGRADATION TO OTHER MATERIALS a. ICT ED	7645849	35996
71. b. ICT	0	0
72. DECAY	0	0
73. FISSION AND TRANSMUTATION	590617	289599
77. INVENTORY DIFFERENCE	0	0
81. ENDING INVENTORY - NOT DOE OWNED	327710145	4344524
82. TOTAL (LINES 41-81)	335946611	4670119

SECTION B - COUNTRY CONTROL NUMBER DATA

1. COUNTRY CONTROL NUMBER	2. ELEMENT WEIGHT	3. ISOTOPE WEIGHT
AURS0000	6563344	77332
AUUS0000	25670439	255498
CAFR0000	9044707	110844
CARS00WR	34649079	990093
CARU00WR	11256256	99381
CAUS0000	26579720	277283
FRFR0000	3909022	31680
GMUS0000	5813366	57811
KAUS0000	1099089	11942
PCUS0000	2607423	20154
RSRS00WR	19191369	730167
RSUS0000	88	1
RURU0000	733132	5610
RUUS0000	11395967	90646
TJUS0000	13648192	125309
UKUS0000	275712	2288
UPFR0000	3837646	56270
USFR0000	28509938	241560
USRS0000	3808505	95458
USRS00WR	26071	314
USUS0000	118463532	1059311
UZUS0000	627548	5572
4. TOTAL WEIGHT	327710145	4344524

DOE/NRC FORM 742 - MATERIAL BALANCE REPORT

1. Florida Power & Light Co.                      2. NPF-16    SNM-1902                      3. XSG  
6501 South AlA  
Jensen Beach, FL 34957                      4. FROM 10012002 TO 03262003    5. 10

SECTION A - MATERIAL ACCOUNTABILITY

	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
7. DOE/NRC 740M ATTACHED - NO		
9. BEGINNING INVENTORY - NOT DOE OWNED	104628	626
21. PRODUCTION	0	0
22. FROM OTHER MATERIALS a. ICT ED	7645	34
22.    b. ICT	0	0
30. RECEIPTS REPORTED TO DOE/NRC		
40. TOTAL (LINES 8-39)	112273	660
51. SHIPMENTS REPORTED TO DOE/NRC		
65. ROUNDING BIAS	0	0
71. DEGRADATION TO OTHER MATERIALS a. ICT DE	625	6
71.    b. ICT	0	0
72. DECAY	0	0
73. FISSION AND TRANSMUTATION	0	0
77. INVENTORY DIFFERENCE	1	-4
81. ENDING INVENTORY - NOT DOE OWNED	111647	658
82. TOTAL (LINES 41-81)	112273	660

SECTION B - COUNTRY CONTROL NUMBER DATA

1. COUNTRY CONTROL NUMBER	2. ELEMENT WEIGHT	3. ISOTOPE WEIGHT
AURS0000	440	3
AUUS0000	1904	12
CAFR0000	3029	20
CARU00WR	2369	15
CAUS0000	12868	78
FRFR0000	699	4
GMUS0000	189	1
KAUS0000	973	6
PCPC0000	391	2
PCUS0000	5436	30
RURU0000	351	2
RUUS0000	3449	20
TJUS0000	4373	26
USFR0000	20840	128
USRS0000	15	0
USRS00WR	15	0
USUS0000	54234	311
UZUS0000	72	0
4. TOTAL WEIGHT	111647	658

DOE/NRC FORM 742 - MATERIAL BALANCE REPORT

1. Florida Power & Light Co. 2. NPF-16 SNM-1902 3. XSG  
6501 South AlA  
Jensen Beach, FL 34957 4. FROM 10012002 TO 03262003 5. 50

SECTION A - MATERIAL ACCOUNTABILITY

	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
7. DOE/NRC 740M ATTACHED - NO		
9. BEGINNING INVENTORY - NOT DOE OWNED	3624618	2432370
21. PRODUCTION	80672	43422
22. FROM OTHER MATERIALS a.ICT	0	0
22. b.ICT	0	0
30. RECEIPTS REPORTED TO DOE/NRC		
40. TOTAL (LINES 8-39)	3705290	2475792
51. SHIPMENTS REPORTED TO DOE/NRC		
65. ROUNDING BIAS	0	0
71. DEGRADATION TO OTHER MATERIALS a.ICT	0	0
71. b.ICT	0	0
72. DECAY	6767	6767
73. FISSION AND TRANSMUTATION	429	429
77. INVENTORY DIFFERENCE	2	0
81. ENDING INVENTORY - NOT DOE OWNED	3698092	2468596
82. TOTAL (LINES 41-81)	3705290	2475792

SECTION B - COUNTRY CONTROL NUMBER DATA

1. COUNTRY CONTROL NUMBER	2. ELEMENT WEIGHT	3. ISOTOPE WEIGHT
AURSUS00	70172	49432
AUUSUS00	283802	190945
CAFRUS00	110139	75811
CARSUSWR	152508	125545
CARUUSWR	138331	90724
CAUSUS00	365578	239159
FRFRUS00	47009	30759
GMUSUS00	60730	39664
KAUSUS00	21413	14164
PCPCUS00	4525	2885
PCUSUS00	85186	54949
RURUUS00	11544	7526
RUUSUS00	151758	98933
TJUSUS00	189943	126187
UKUSUS00	1399	1048
UPFRUS00	37198	27062
USFRUS00	461386	296279
USRSUS00	26574	21381
USRSUSWR	410	289
USUSUS00	1471390	971181
UZUSUS00	7097	4673
4. TOTAL WEIGHT	3698092	2468596

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DOE/NRC FORM 742 - MATERIAL BALANCE REPORT

1. Florida Power & Light Co. 6501 South A1A Jensen Beach, FL 34957	2. NPF-16 SNM-1902	3. XSG
	4. FROM 10012002 TO 03262003	5. E4

SECTION A - MATERIAL ACCOUNTABILITY

	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
7. DOE/NRC 740M ATTACHED - NO		
9. BEGINNING INVENTORY - NOT DOE OWNED	181	163
21. PRODUCTION	0	0
22. FROM OTHER MATERIALS a.ICT	0	0
22. b.ICT	0	0
30. RECEIPTS REPORTED TO DOE/NRC	.	
40. TOTAL (LINES 8-39)	181	163
51. SHIPMENTS REPORTED TO DOE/NRC		
65. ROUNDING BIAS	0	0
71. DEGRADATION TO OTHER MATERIALS a.ICT	0	0
71. b.ICT	0	0
72. DECAY	0	0
73. FISSION AND TRANSMUTATION	0	0
77. INVENTORY DIFFERENCE	0	0
81. ENDING INVENTORY - NOT DOE OWNED	181	163
82. TOTAL (LINES 41-81)	181	163

SECTION B - COUNTRY CONTROL NUMBER DATA

1. COUNTRY CONTROL NUMBER	2. ELEMENT WEIGHT	3. ISOTOPE WEIGHT
USUS0000	181	163
4. TOTAL WEIGHT	181	163

DOE/NRC FORM 742 - MATERIAL BALANCE REPORT

1. Florida Power & Light Co.                      2. NPF-16    SNM-1902                      3. XSG  
6501 South A1A  
Jensen Beach, FL 34957                      4. FROM 10012002 TO 03262003    5. 83

SECTION A - MATERIAL ACCOUNTABILITY

	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
7. DOE/NRC 740M ATTACHED - NO		
9. BEGINNING INVENTORY - NOT DOE OWNED	1.0	0.6
21. PRODUCTION	0	0
22. FROM OTHER MATERIALS a.ICT	0	0
22.                                      b.ICT	0	0
30. RECEIPTS REPORTED TO DOE/NRC	0	0
40. TOTAL (LINES 8-39)	1.0	0.6
51. SHIPMENTS REPORTED TO DOE/NRC		
65. ROUNDING BIAS	0	0
71. DEGRADATION TO OTHER MATERIALS a.ICT	0	0
71.    b.ICT	0	0
72. DECAY	0	0
73. FISSION AND TRANSMUTATION	0	0
77. INVENTORY DIFFERENCE	0	0
81. ENDING INVENTORY - NOT DOE OWNED	1.0	0.6
82. TOTAL (LINES 41-81)	1.0	0.6

SECTION B - COUNTRY CONTROL NUMBER DATA

	2. ELEMENT WEIGHT	3. ISOTOPE WEIGHT
1. COUNTRY CONTROL NUMBER		
USUSUS00	1.0	0.6
4. TOTAL WEIGHT	1.0	0.6



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PHYSICAL INVENTORY LISTING  
DOE/NRC FORM 742C

103262003XSG E1860	7743873900	123698800	J	00001
103262003XSG 10860	509700	2700	J	00002
103262003XSG 50860	73856800	53129800	J	00003
103262003XSG E1861	21986319300	194852100	J	00004
103262003XSG 10861	10655000	63100	J	00005
103262003XSG 50861	295952400	193729800	J	00006
103262003XSG E1864	3040821300	115901500	J	00007
103262003XSG E4864	18100	16300	J	00008
103262003XSG 83861	100	060	J	00009
103262003XSG 83899	100	060		00010
103262003XSG E4899	18100	16300		00011
103262003XSG E1899	32771014500	434452400		00012
103262003XSG 10899	11164700	65800		00013
103262003XSG 50899	369809200	246859600		00014

NUCLEAR MATERIAL TRANSACTION REPORT  
DOE/NRC FORM 741

XSG XSG 20030326 A M175			03262003
XSG XSG 20030326 A M201ED		20309 JAURS0000	
XSG XSG 20030326 A M501	43968000	6582	289400
XSG XSG 20030326 A M202ED		10309 JAURS0000	
XSG XSG 20030326 A M502	44000	6582	300
XSG XSG 20030326 A M203LNU FISSION		20309 JAURS0000	
XSG XSG 20030326 A M503	5287100	11782	2133900
XSG XSG 20030326 A M204NPPu PRODUCTION		50309 JAURSUS00	
XSG XSG 20030326 A M504	498900	240153	132600
XSG XSG 20030326 A M205ED		20309 JAUUS0000	
XSG XSG 20030326 A M505	95340800	5697	543200
XSG XSG 20030326 A M206ED		10309 JAUUS0000	
XSG XSG 20030326 A M506	95300	5697	500
XSG XSG 20030326 A M207LNU FISSION		20309 JAUUS0000	
XSG XSG 20030326 A M507	13577600	10172	4946000
XSG XSG 20030326 A M208NPPu PRODUCTION		50309 JAUUSUS00	
XSG XSG 20030326 A M508	1043900	251369	159100
XSG XSG 20030326 A M209TNPu DECAY		50309 JAUUSUS00	
XSG XSG 20030326 A M509	12400	264812	12400
XSG XSG 20030326 A M210MFINV. DIFF.		10 JAUUS0000	
XSG XSG 20030326 A M510		10}	10}
XSG XSG 20030326 A M211LNU FISSION		20309 JCAFR0000	
XSG XSG 20030326 A M511	3356200	16118	1625400
XSG XSG 20030326 A M212NPPu PRODUCTION		50309 JCAFRUS00	
XSG XSG 20030326 A M512	412600	218985	185300
XSG XSG 20030326 A M213TNPu DECAY		50309 JCAFRUS00	
XSG XSG 20030326 A M513	12700	276673	12700
XSG XSG 20030326 A M214ED		20309 JCAFR0000	
XSG XSG 20030326 A M514	5885000	6559	38600
XSG XSG 20030326 A M215ED		10309 JCAFR0000	
XSG XSG 20030326 A M515	5900	6559	*
XSG XSG 20030326 A M216MFINV. DIFF.		10 JCAFR0000	
XSG XSG 20030326 A M516	100		10}
XSG XSG 20030326 A M217LNU FISSION		20309 JCARS00WR	
XSG XSG 20030326 A M517	22306200	23952	13808600
XSG XSG 20030326 A M218NPPu PRODUCTION		50309 JCARSUSWR	
XSG XSG 20030326 A M518	4487600	165434	3160600
XSG XSG 20030326 A M219TNPu DECAY		50309 JCARSUSWR	
XSG XSG 20030326 A M519	46000	260816	46000
XSG XSG 20030326 A M220DE		20309 JCARSUSWR	
XSG XSG 20030326 A M520	55011800	8958	492800
XSG XSG 20030326 A M221DE		10309 JCARSUSWR	
XSG XSG 20030326 A M521	55000	8958	500
XSG XSG 20030326 A M222MFINV. DIFF.		50 JCARSUSWR	
XSG XSG 20030326 A M522		10}	0
XSG XSG 20030326 A M223ED		20309 JCAUS0000	
XSG XSG 20030326 A M523	116152500	1561	181400
XSG XSG 20030326 A M224ED		10309 JCAUS0000	
XSG XSG 20030326 A M524	116200	1561	100
XSG XSG 20030326 A M225LNU FISSION		20309 JCAUS0000	
XSG XSG 20030326 A M525	4395200	9919	1317200
XSG XSG 20030326 A M226NPPu PRODUCTION		50309 JCAUSUS00	
XSG XSG 20030326 A M526	276500	260801	4000
XSG XSG 20030326 A M227LNPu BURNUP		50309 JCAUSUS00	
XSG XSG 20030326 A M527	42900	260801	42900
XSG XSG 20030326 A M228TNPu DECAY		50309 JCAUSUS00	
XSG XSG 20030326 A M528	70100	271934	70100
XSG XSG 20030326 A M229MFINV. DIFF.		10 JCAUS0000	
XSG XSG 20030326 A M529	200		20}

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XSG XSG 20030326 A M230TNPu DECAY	50309	JFRFRUS00	
XSG XSG 20030326 A M530	12500	269842	12500
XSG XSG 20030326 A M231TNPu DECAY	50309	JGMUSUS00	
XSG XSG 20030326 A M531	18800	269735	18800
XSG XSG 20030326 A M232ED	20309	JGMUS0000	
XSG XSG 20030326 A M532	18928900	4765	90200
XSG XSG 20030326 A M233ED	10309	JGMUS0000	
XSG XSG 20030326 A M533	18900	4765	100
XSG XSG 20030326 A M234TNPu DECAY	50309	JKAUSUS00	
XSG XSG 20030326 A M534	6300	262084	6300
XSG XSG 20030326 A M235ED	20309	JKAUS0000	
XSG XSG 20030326 A M535	7643400	5600	42800
XSG XSG 20030326 A M236ED	10309	JKAUS0000	
XSG XSG 20030326 A M536	7600	5600	*
XSG XSG 20030326 A M237MFINV. DIFF.	10	JKAUS0000	
XSG XSG 20030326 A M537	10}		0
XSG XSG 20030326 A M238MFINV. DIFF.	50	JKAUSUS00	
XSG XSG 20030326 A M538	100		0
XSG XSG 20030326 A M239TNPu DECAY	50309	JPCPCUS00	
XSG XSG 20030326 A M539	1400	270055	1400
XSG XSG 20030326 A M240TNPu DECAY	50309	JPCUSUS00	
XSG XSG 20030326 A M540	25000	270655	25000
XSG XSG 20030326 A M241MFINV. DIFF.	50	JRSUSUS00	
XSG XSG 20030326 A M541	100		100
XSG XSG 20030326 A M242TNPu DECAY	50309	JRURUUS00	
XSG XSG 20030326 A M542	3100	268971	3100
XSG XSG 20030326 A M243TNPu DECAY	50309	JRUUSUS00	
XSG XSG 20030326 A M543	41100	270767	41100
XSG XSG 20030326 A M244MFINV. DIFF.	50	JRUUSUS00	
XSG XSG 20030326 A M544	0		10}
XSG XSG 20030326 A M245TNPu DECAY	50309	JTJUSUS00	
XSG XSG 20030326 A M545	56600	262042	56600
XSG XSG 20030326 A M246ED	20309	JTJUS0000	
XSG XSG 20030326 A M546	92972100	4967	461800
XSG XSG 20030326 A M247ED	10309	JTJUS0000	
XSG XSG 20030326 A M547	93000	4967	500
XSG XSG 20030326 A M248LNU FISSION	20309	JTJUS0000	
XSG XSG 20030326 A M548	611600	14663	196400
XSG XSG 20030326 A M249NPPu PRODUCTION	50309	JTJUSUS00	
XSG XSG 20030326 A M549	41800	206098	10000
XSG XSG 20030326 A M250TNPu DECAY	50309	JUKUSUS00	
XSG XSG 20030326 A M550	100	231594	100
XSG XSG 20030326 A M251LNU FISSION	20309	JUPFR0000	
XSG XSG 20030326 A M551	2915300	14663	1342000
XSG XSG 20030326 A M252NPPu PRODUCTION	50309	JUPFRUS00	
XSG XSG 20030326 A M552	319600	227109	123000
XSG XSG 20030326 A M253TNPu DECAY	50309	JUSFRUS00	
XSG XSG 20030326 A M553	93500	278691	93500
XSG XSG 20030326 A M254NPPu PRODUCTION	50309	JUSFRUS00	
XSG XSG 20030326 A M554	2000	148782	500
XSG XSG 20030326 A M255ED	20309	JUSFR0000	
XSG XSG 20030326 A M555	10200200	1196	12200
XSG XSG 20030326 A M256ED	10309	JUSFR0000	
XSG XSG 20030326 A M556	10200	1196	*
XSG XSG 20030326 A M257DE	20309	JUSFR0000	
XSG XSG 20030326 A M557	7524400	17090	128600
XSG XSG 20030326 A M258DE	10309	JUSFR0000	
XSG XSG 20030326 A M558	7500	17090	100
XSG XSG 20030326 A M259ED	20309	JUSRS0000	
XSG XSG 20030326 A M559	1504500	6514	9800
XSG XSG 20030326 A M260ED	10309	JUSRS0000	
XSG XSG 20030326 A M560	1500	6514	*
XSG XSG 20030326 A M261LNU FISSION	20309	JUSRS0000	
XSG XSG 20030326 A M561	3386800	25064	2172900

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XSG XSG 20030326 A M262NPPu PRODUCTION	50309	JUSRSUS00	
XSG XSG 20030326 A M562	652100	176187	451400
XSG XSG 20030326 A M263ED	20309	JUSRS00WR	
XSG XSG 20030326 A M563	1505700	6509	9800
XSG XSG 20030326 A M264ED	10309	JUSRS00WR	
XSG XSG 20030326 A M564	1500	6509	*
XSG XSG 20030326 A M265LNU FISSION	20309	JUSRS00WR	
XSG XSG 20030326 A M565	30500	12044	10800
XSG XSG 20030326 A M266NPPu PRODUCTION	50309	JUSRSUSWR	
XSG XSG 20030326 A M566	2800	239024	700
XSG XSG 20030326 A M267ED	20309	JUSUS0000	
XSG XSG 20030326 A M567	368138100	2963	1909000
XSG XSG 20030326 A M268ED	10309	JUSUS0000	
XSG XSG 20030326 A M568	368100	2963	1900
XSG XSG 20030326 A M269LNU FISSION	20309	JUSUS0000	
XSG XSG 20030326 A M569	3195200	13351	1406700
XSG XSG 20030326 A M270NPPu PRODUCTION	50309	JUSUSUS00	
XSG XSG 20030326 A M570	329400	233931	115000
XSG XSG 20030326 A M271TNPu DECAY	50309	JUSUSUS00	
XSG XSG 20030326 A M571	274600	273651	274600
XSG XSG 20030326 A M272TNPu DECAY	50309	JUZUSUS00	
XSG XSG 20030326 A M572	2500	260251	2500
XSG XSG 20030326 A M273ED	20309	JUZUS0000	
XSG XSG 20030326 A M573	2345700	4860	11400
XSG XSG 20030326 A M274ED	10309	JUZUS0000	
XSG XSG 20030326 A M574	2300	4860	*
XSG XSG 20030326 A M275MFINV. DIFF.	50	JUZUSUS00	
XSG XSG 20030326 A M575	100		0