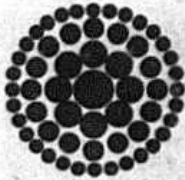


ORIGINAL



Florida Power
CORPORATION

JAMES A. MCGEE
SENIOR COUNSEL

November 19, 1997

Ms. Blanca S. Bayó, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Docket No. 970001-EI

Dear Ms. Bayó:

Enclosed for filing in the subject docket are an original and ten copies each of the Direct Testimony and Exhibits of John Scardino, Jr. and Dario B. Zuloaga on behalf of Florida Power Corporation.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Also enclosed is a 3.5 inch diskette containing the above-referenced document in WordPerfect format. Thank you for your assistance in this matter.

- ACK
- AFA 2
- APP _____
- CAF _____
- CMU _____
- CTR _____
- EAG Behrman
- LEG 1 IAM/kp
- LIN 3 Enclosure
- OPC _____ cc: Parties of record
- RCH _____
- SEC 1
- WAS _____
- OTH _____

Very truly yours,

James A. McGee
James A. McGee

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[Signature]
FPC-BUREAU OF RECORDS

Scardino *Zuloaga*
DOCUMENT NUMBER DOCUMENT NUMBER-DATE

GENERAL OFFICE | 950 NOV 20 1997 | 951 NOV 20 1997

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A Florida Progress Company
RECORDS/REPORTING RECORDS/REPORTING

CERTIFICATE OF SERVICE

Docket No. 970001

I HEREBY CERTIFY that a true and correct copy of the Direct Testimony and Exhibits of John Scardino, Jr. and Dario B. Zuloaga on behalf of Florida Power Corporation has been sent by regular U.S. mail to the following individuals this 19th day of November, 1997:

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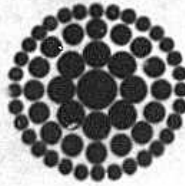
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Mr. Don Bruegmann
Seminole Electric Cooperative, Inc.
16313 No. Dale Mabry Highway
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A handwritten signature in black ink, appearing to read "James A. ...", is written over a horizontal line. Below the line, the word "Attorney" is printed in a serif font.

Attorney



ORIGINAL

**Florida
Power**
CORPORATION

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET No. 970001-EI

**GPIF REWARD/PENALTY AMOUNT FOR
APRIL THROUGH SEPTEMBER 1997**

**DIRECT TESTIMONY
AND EXHIBITS OF
DARIO B. ZULOAGA**

DOCUMENT NUMBER-DATE

11951 NOV 20 6

FPSC-RECORDS/REPORTING

For Filing November 20, 1997

**FLORIDA POWER CORPORATION
DOCKET No. 970001-EI**

**Re: GPIF Reward/Penalty Amount for
April through September 1997**

**DIRECT TESTIMONY OF
DARIO B. ZULOAGA**

1 **Q. Please state your name and business address.**

2 **A. My name is Dario B. Zuloaga. My business address is P. O. Box 14042,**
3 **St. Petersburg, Florida 33733.**

4
5 **Q. By whom are you employed and in what capacity?**

6 **A. I am employed by Florida Power Corporation as a Principal Engineer in**
7 **Energy Supply, Performance Services.**

8
9 **Q. What are your responsibilities as Principal Engineer?**

10 **A. As a Principal Engineer, I am responsible for compiling and reporting**
11 **various operational statistics regarding the Company's generating**
12 **system. In particular, my duties include the preparation of the**
13 **information and material required by the Commission's GPIF**
14 **mechanism.**

15
16 **Q. What is the purpose of your testimony?**

17 **A. The purpose of my testimony is to describe the calculation of the**
18 **Company's Generation Performance Incentive Factor (GPIF) amount for**
19 **the period of April through September 1997. This was developed by**

1 comparing the actual performance of the Company's six GPIF
2 generating units to the approved targets set for these units prior to the
3 period.
4

5 **Q. Do you have an exhibit to your testimony in this proceeding?**

6 **A. Yes, under my direction Exhibit No. ___ (DBZ-1) has been prepared**
7 **consisting of the numbered sheets which are attached to my prepared**
8 **testimony. The exhibit contains the schedules required by the GPIF**
9 **implementation Manual, which support the development of the incentive**
10 **amount. I have also included other data forms to supplement the**
11 **required schedules.**
12

13 **Q. What GPIF incentive amount have you calculated for this period?**

14 **A. I have calculated the Company's GPIF incentive amount to be a reward**
15 **of \$1,062,690. This amount was developed in a manner consistent**
16 **with the GPIF Implementation Manual. Sheet 1 of my exhibit shows the**
17 **calculation of system GPIF points and the corresponding reward. The**
18 **summary of weighted incentive points earned by each individual unit**
19 **can be found on Sheet 3.**
20

21 **Q. How were the incentive points for equivalent availability and heat rate**
22 **calculated for the individual GPIF units?**

23 **A. The calculation of incentive points is made by comparing the adjusted**
24 **actual performance data for equivalent availability and heat rate to the**
25 **target performance indicators for each unit. This comparison is shown**

1 on the Generating Performance Incentive Points Table found in Sheets
2 8 through 14 of my exhibit.

3
4 **Q. Why is it necessary to make adjustments to the actual performance**
5 **data for comparison with the targets?**

6 **A. Adjustments to the actual equivalent availability and heat rate data are**
7 **necessary to allow their comparison with the "target" Point Table**
8 **exactly as approved by the Commission prior to the period. These**
9 **adjustments are described in the Implementation Manual and are further**
10 **explained by a Staff memorandum, dated October 23, 1981, directed**
11 **to the GPIF utilities. The adjustments to the actual equivalent**
12 **availability concern primarily the difference between target and actual**
13 **planned outage hours for all the GPIF units and are shown on Sheet 6**
14 **of my exhibit. The heat rate adjustments concern the differences**
15 **between the target and actual Net Output Factor (NOF), and are shown**
16 **on Sheet 7. The methodology for both the equivalent availability and**
17 **heat rate adjustments are explained in the Staff memorandum.**

18 In addition, Florida Power has made an adjustment to the actual
19 equivalent availability data to remove maintenance hours and load
20 deratings associated with an algae infestation which occurred in the
21 Gulf of Mexico and traveled into the intake canal of Anclote Units 1 and
22 2. The algae infestation caused pluggage problems in the steam
23 condensers and the circulating water system which prevented the units
24 from returning to service until the infestation dispersed. Florida Power
25 believes this event is properly classified as a natural disaster, the

1 effects of which are to be excluded from the EAF calculation according
2 to the Implementation Manual. The total maintenance hours removed
3 were 194.80 for Unit 1, and 230.03 for Unit 2. The total derated hours
4 were 18.80 for Unit 1, and 9.46 for Unit 2. Sheet 6 of my exhibit also
5 contains the details for the algae infestation adjustment.
6

7 **Q. Have you provided the as-worked planned outage schedules for the**
8 **Company's GPIF units to support your adjustments to actual equivalent**
9 **availability?**

10 **A. Yes, Sheet 23 of my exhibit shows a comparison of target and actual**
11 **planned outage hours in bar-chart form. Sheets 24 and 25 present as-**
12 **worked critical path charts for each unit which experienced a planned**
13 **outage during the period.**
14

15 **Q. Does this conclude your testimony?**

16 **A. Yes.**

GPIF REWARD/PENALTY SCHEDULES

<u>Descriptive Title</u>	<u>Sheet</u>
• Reward/Penalty Table (Actual)	1
• Calculation of Maximum Incentive Dollars (Actual)	2
• Calculation of System Actual GPIF Points	3
• GPIF Unit Performance Summary	4
• Actual Unit Performance Data	5
• Adjustments to EAF Actual	6
• Adjustments to ANOHR Actual	7
• Generating Performance Incentive Points Table	8-14
• Actual Unit Performance Data	15-21
• Planned Outage Schedules (Actual)	22-26

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997

Generating Performance Incentive Points (GPIF) -----	Fuel Saving/Loss (\$) -----	Generating Performance Incentive Factor (\$) -----
10	\$12,139,600	\$3,542,299
9	\$10,925,640	\$3,188,069
8	\$9,711,680	\$2,833,839
7	\$8,497,720	\$2,479,609
6	\$7,283,760	\$2,125,379
5	\$6,069,800	\$1,771,150
4	\$4,855,840	\$1,416,920
**** 3.009	\$3,652,806	\$1,062,690
3	\$3,641,880	\$1,065,878
2	\$2,427,920	\$708,460
1	\$1,213,960	\$354,230
0	\$0	\$0
-1	(\$906,660)	(\$354,230)
-2	(\$1,813,320)	(\$708,460)
-3	(\$2,719,980)	(\$1,062,690)
-4	(\$3,626,640)	(\$1,416,920)
-5	(\$4,533,300)	(\$1,771,150)
-6	(\$5,439,960)	(\$2,125,379)
-7	(\$6,346,620)	(\$2,479,609)
-8	(\$7,253,280)	(\$2,833,839)
-9	(\$8,159,940)	(\$3,188,069)
-10	(\$9,066,600)	(\$3,542,299)

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GENERATION PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

COMPANY: FLORIDA POWER CORPORATION
FOR THE PERIOD OF:
APRIL 1997 - SEPTEMBER 1997

1	BEGINNING OF PERIOD BALANCE OF COMMON EQUITY	\$1,818,293,961
2	END OF MONTH BALANCE OF COMMON EQUITY: MONTH OF APRIL 1997	\$1,824,241,229
3	MONTH OF MAY 1997	\$1,844,646,155
4	MONTH OF JUNE 1997	\$1,726,862,431
5	MONTH OF JULY 1997	\$1,760,714,367
6	MONTH OF AUGUST 1997	\$1,794,799,194
7	MONTH OF SEPTEMBER 1997	\$1,775,155,313
8	AVERAGE COMMON EQUITY FOR THE PERIOD (SUMMATION OF LINE 1 THROUGH LINE 7 DIVIDED BY 7)	\$1,792,101,807
9	25 BASIS POINTS	0.0025
10	REVENUE EXPANSION FACTOR	61.3738%
11	MAXIMUM ALLOWED INCENTIVE DOLLARS (LINE 8 TIMES LINE 9 DIVIDED BY LINE 10 TIMES 0.5)	\$3,649,973
12	JURISDICTIONAL SALES	16,384,587 MWH
13	TOTAL SALES	16,883,345 MWH
14	JURISDICTIONAL SEPARATION FACTOR (LINE 12 DIVIDED BY LINE 13)	97.05%
15	MAXIMUM ALLOWED JURISDICTIONAL INCENTIVE DOLLARS (LINE 11 TIMES LINE 14)	\$3,542,299

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CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997

Plant/Unit	Performance Indicator EAF or ANOHR	Weighting Factor %	Unit Points	Weighted Unit Points
Crystal River 1	EAF	11.94	8.446	1.009
	ANOHR	3.29	0.000	0.000
Crystal River 2	EAF	28.74	7.304	2.100
	ANOHR	4.54	0.000	0.000
Crystal River 3	EAF	0.00	-10.000	0.000
	ANOHR	0.00	-10.000	0.000
Crystal River 4	EAF	8.87	10.000	0.887
	ANOHR	8.44	-8.877	-0.750
Crystal River 5	EAF	3.54	10.000	0.354
	ANOHR	7.50	-6.391	-0.479
Anclote 1	EAF	2.11	2.917	0.061
	ANOHR	10.54	-0.08	-0.009
Anclote 2	EAF	3.05	-5.095	-0.156
	ANOHR	7.44	-0.112	-0.608
GPIF System		100.00		3.009

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GPIF UNIT PERFORMANCE SUMMARY

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997

Plant/Unit	Weighting Factor (%)	EAF Target (%)	EAF RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	EAF Adjusted Actual (%)	Estimated Fuel Savings/Loss (\$000)
			Max. (%)	Min. (%)				
CR 1	11.94	88.73	92.96	80.28	1644.1	-182.50	92.31	\$1,388.6
CR 2	28.74	83.52	90.07	71.01	3370.4	1448.00	88.30	\$2,461.9
CR 3	0.00	0.00	0.00	0.00	0.0	0.00	0.00	\$0.0
CR 4	8.87	94.08	96.87	88.37	1103.0	-2654.70	98.66	\$1,103.0
CR 5	3.54	75.53	77.02	72.48	466.2	-1051.10	77.92	\$466.2
AN 1	2.11	91.28	93.58	86.61	317.2	-722.50	91.95	\$92.5
AN 2	3.05	95.32	97.53	90.78	477.5	-1142.60	93.01	(\$582.1)
GPIF System	58.26				7378.4	-4305.40		\$4,930.0

Plant/Unit	Weighting Factor (%)	ANOHR Target (Btu/kwh)	ANOHR RANGE			Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	ANOHR Adjusted Actual Btu/kwh	Estimated Fuel Savings/Loss
			NOF	Min. Btu/kwh	Max. Btu/kwh				
CR 1	3.29	9766	94.8	9616	9916	364.3	(364.3)	9758.1	\$0.0
CR 2	4.54	9763	97.9	9613	9913	444.2	(444.2)	9711.2	\$0.0
CR 3	0.00	0	0.0	0	0	0.0	0.0	0.0	\$0.0
CR 4	8.44	9289	96.4	9139	9439	876.3	(876.3)	9430.4	(\$777.9)
CR 5	7.50	9267	99.5	9117	9417	710.1	(710.1)	9390.1	(\$453.8)
AN 1	10.54	9719	79.7	9374	10063	1369.2	(1,369.2)	9795.49	(\$11.2)
AN 2	7.44	9669	76.7	9409	9929	997.1	(997.1)	9745.58	(\$11.1)
GPIF System	41.74					4761.2	(4,761.2)		(\$1,254.1)

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ACTUAL UNIT PERFORMANCE DATA

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997

PLANT/UNIT	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	EAF ADJUSTED ACTUAL %
-----	-----	-----	-----
CRYSTAL RIVER 1	94.37	-2.06	92.31
CRYSTAL RIVER 2	88.00	0.31	88.30
CRYSTAL RIVER 3	0.00	0.00	0.00
CRYSTAL RIVER 4	98.66	0.00	98.66
CRYSTAL RIVER 5	82.84	-4.92	77.92
ANCLOTE UNIT 1	95.61	-3.66	91.95
ANCLOTE UNIT 2	93.00	0.00	93.01
PLANT/UNIT	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ANOHR ADJUSTED ACTUAL BTU/KWH
-----	-----	-----	-----
CRYSTAL RIVER 1	9830.4	-72.3	9758.1
CRYSTAL RIVER 2	9767.2	-56.0	9711.2
CRYSTAL RIVER 3	0.0	0.0	0.0
CRYSTAL RIVER 4	9437.7	-7.3	9430.4
CRYSTAL RIVER 5	9421.7	-31.6	9390.1
ANCLOTE UNIT 1	10060.0	-264.5	9795.5
ANCLOTE UNIT 2	10022.0	-276.4	9745.6

(1) For documentation of adjustments to actual EAF, see sheet 6.
 (2) For documentation of adjustments to actual ANOHR, see sheet 7.
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ADJUSTMENTS TO EAF ACTUAL

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997

EAF ADJUSTMENTS FOR PLANNED OUTAGE HOURS		CR1	CR2	CR3	CR4	CR5	AN1	AN2
		-----	-----	-----	-----	-----	-----	-----
7. ACTUAL POH	HRS.	0.00	110.90	0.00	0.00	717.70	0.00	0.00
8. TARGET POH	HRS.	96.00	96.00	4391.00	0.00	936.00	168.00	0.00
9. ADJ. FACTOR (PH-POHT/PH-POHA)		0.98	1.00	0.00	1.00	0.94	0.96	1.00
10. ACTUAL EUOH *	HRS.	247.28	416.14	4391.00	58.85	35.86	192.87	307.12
11. ADJ. EUOH (9*10)	HRS.	241.88	417.59	0.00	58.85	33.73	185.49	307.12
12. ACTUAL EAF *	%	96.37	88.00	0.00	98.66	82.84	95.61	93.00
13. ADJUSTED EAF (using 8 & 11)	%	92.31	88.30	0.00	98.66	77.92	91.95	93.01
14. DIFFERENCE	%	-2.06	0.31	0.00	0.00	-4.92	-3.66	0.00
15. TOTAL ADJ TO EAF (7 + 14)	%	-2.06	0.31	0.00	0.00	-4.92	-3.66	0.00

* Actual EUOH and actual EAF are the adjusted values in Nos. 9 and 11 above.

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ADJUSTMENTS TO ANOHR ACTUAL

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997

	CR 1	CR 2	CR 3	CR 4	CR 5	AN 1	AN 2
	-----	-----	-----	-----	-----	-----	-----
ANOHR adj for Target NOF							
1. Target NOF %	94.8	97.9	0.0	96.4	99.5	79.7	76.7
2. Target ANOHR Btu/kwh	9766.0	9762.6	0.0	9288.8	9267.2	9718.3	9668.5
3. Actual NOF %	89.1	89.9	0.0	95.7	94.7	55.6	58.0
4. Calc. ANOHR Btu/kwh (using 3)	9838.3	9818.6	0.0	9296.1	9298.7	9982.7	9944.9
5. Total adj. Btu/kwh to ANOHR (2-4)	-72.3	-56.0	0.0	-7.3	-31.6	-264.5	-276.4

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Crystal River 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$1,644,100	92.96	10	\$364,300	9616.3
9	\$1,479,690	92.54	9	\$327,870	9623.8
8.446	\$1,388,550	92.31	8	\$291,440	9631.3
8	\$1,315,280	92.11	7	\$255,010	9638.8
7	\$1,150,870	91.69	6	\$218,580	9646.3
6	\$986,460	91.27	5	\$182,150	9653.8
5	\$822,050	90.84	4	\$145,720	9661.3
4	\$657,640	90.42	3	\$109,290	9668.8
3	\$493,230	90.00	2	\$72,860	9676.3
2	\$328,820	89.57	1	\$36,430	9683.8
1	\$164,410	89.15	0	\$0	9691.3
	\$0	88.73	0.000	\$0	9758.1
0	\$0	88.73	0	\$0	9766.3
	\$0	88.73	0	\$0	9841.3
-1	(\$18,250)	87.88	-1	(\$36,430)	9848.8
-2	(\$36,500)	87.04	-2	(\$72,860)	9856.3
-3	(\$54,750)	86.19	-3	(\$109,290)	9863.8
-4	(\$73,000)	85.35	-4	(\$145,720)	9871.3
-5	(\$91,250)	84.51	-5	(\$182,150)	9878.8
-6	(\$109,500)	83.66	-6	(\$218,580)	9886.3
-7	(\$127,750)	82.82	-7	(\$255,010)	9893.8
-8	(\$146,000)	81.97	-8	(\$291,440)	9901.3
-9	(\$164,250)	81.13	-9	(\$327,870)	9908.8
-10	(\$182,500)	80.28	-10	(\$364,300)	9916.3

Equivalent Availability
 Weighting Factor:

11.94%

Heat Rate
 Weighting Factor:

3.29%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Crystal River 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$3,370,400	90.07	10	\$444,200	9612.7
9	\$3,033,360	89.41	9	\$399,780	9620.2
8	\$2,696,320	88.76	8	\$355,360	9627.7
**** 7.304	\$2,461,867	88.30	7	\$310,940	9635.2
7	\$2,359,280	88.10	6	\$266,520	9642.7
6	\$2,022,240	87.45	5	\$222,100	9650.2
5	\$1,685,200	86.79	4	\$177,680	9657.7
4	\$1,348,160	86.14	3	\$133,260	9665.2
3	\$1,011,120	85.48	2	\$88,840	9672.7
2	\$674,080	84.83	1	\$44,420	9680.2
1	\$337,040	84.18	0	\$0	9687.7
	\$0	83.52	0.000	\$0	9711.2
0	\$0	83.52	0	\$0	9762.7
	\$0	83.52	0	\$0	9837.7
-1	\$144,800	82.27	-1	(\$44,420)	9845.2
-2	\$289,600	81.02	-2	(\$88,840)	9852.7
-3	\$434,400	79.77	-3	(\$133,260)	9860.2
-4	\$579,200	78.51	-4	(\$177,680)	9867.7
-5	\$724,000	77.26	-5	(\$222,100)	9875.2
-6	\$868,800	76.01	-6	(\$266,520)	9882.7
-7	\$1,013,600	74.76	-7	(\$310,940)	9890.2
-8	\$1,158,400	73.51	-8	(\$355,360)	9897.7
-9	\$1,303,200	72.26	-9	(\$399,780)	9905.2
-10	\$1,448,000	71.01	-10	(\$444,200)	9912.7

Equivalent Availability
Weighting Factor:

28.74%

Heat Rate
Weighting Factor:

4.54%

Issued by: FPC

Filed:
Suspended:
Effective:
Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Crystal River 3

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$0	0.00	10	\$0	0.0
9	\$0	0.00	9	\$0	-7.5
8	\$0	0.00	8	\$0	-15.0
7	\$0	0.00	7	\$0	-22.5
6	\$0	0.00	6	\$0	-30.0
5	\$0	0.00	5	\$0	-37.5
4	\$0	0.00	4	\$0	-45.0
3	\$0	0.00	3	\$0	-52.5
2	\$0	0.00	2	\$0	-60.0
1	\$0	0.00	1	\$0	-67.5
	\$0	0.00	0	\$0	-75.0
0	\$0	0.00	0	\$0	0.0
	\$0	0.00	0	\$0	75.0
-1	\$0	0.00	-1	\$0	67.5
-2	\$0	0.00	-2	\$0	60.0
-3	\$0	0.00	-3	\$0	52.5
-4	\$0	0.00	-4	\$0	45.0
-5	\$0	0.00	-5	\$0	37.5
-6	\$0	0.00	-6	\$0	30.0
-7	\$0	0.00	-7	\$0	22.5
-8	\$0	0.00	-8	\$0	15.0
-9	\$0	0.00	-9	\$0	7.5
-10	\$0	0.00	-10	\$0	0.0
**** -10.000	\$0	0.00	-10.000	\$0	0.0 ****

Equivalent Availability
 Weighting Factor:

 0.00%

Heat Rate
 Weighting Factor:

 0.00%

Issued by: FPC

Filed:
 Suspended:
 Effective:
 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Crystal River 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)	
****	10.000	\$1,103,000	98.66	10	\$876,300	9139.0
	10	\$1,103,000	96.87	9	\$788,670	9146.5
	9	\$992,700	96.59	8	\$701,040	9154.0
	8	\$882,400	96.31	7	\$613,410	9161.5
	7	\$772,100	96.03	6	\$525,780	9169.0
	6	\$661,800	95.75	5	\$438,150	9176.5
	5	\$551,500	95.47	4	\$350,520	9184.0
	4	\$441,200	95.19	3	\$262,890	9191.5
	3	\$330,900	94.91	2	\$175,260	9199.0
	2	\$220,600	94.64	1	\$87,630	9206.5
	1	\$110,300	94.36	0	\$0	9214.0
	0	\$0	94.08	0	\$0	9289.0
	0	\$0	94.08	0	\$0	9364.0
	0	\$0	94.08	-1	(\$87,630)	9371.5
	-1	\$265,470	93.51	-2	(\$175,260)	9379.0
	-2	\$530,940	92.94	-3	(\$262,890)	9386.5
	-3	\$796,410	92.36	-4	(\$350,520)	9394.0
	-4	\$1,061,880	91.79	-5	(\$438,150)	9401.5
	-5	\$1,327,350	91.22	-6	(\$525,780)	9409.0
	-6	\$1,592,820	90.65	-7	(\$613,410)	9416.5
	-7	\$1,858,290	90.08	-8	(\$701,040)	9424.0
	-8	\$2,123,760	89.51	-8.877	(\$777,933)	9430.4
	-9	\$2,389,230	88.94	-9	(\$788,670)	9431.5
	-10	(\$2,654,700)	88.37	-10	(\$876,300)	9439.0

Equivalent Availability
 Weighting Factor:

 8.87%

Heat Rate
 Weighting Factor:

 8.44%

Issued by: FPC

Filed:
 Suspended:
 Effective:
 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Crystal River 5

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
----- 0.00 -----					
**** 10.000	\$1,051,100	77.92	10	\$710,100	9117.4
10	\$466,200	77.02	9	\$639,090	9124.9
9	\$419,580	76.87	8	\$568,080	9132.4
8	\$372,960	76.72	7	\$497,070	9139.9
7	\$326,340	76.57	6	\$426,060	9147.4
6	\$279,720	76.43	5	\$355,050	9154.9
5	\$233,100	76.28	4	\$284,040	9162.4
4	\$186,480	76.13	3	\$213,030	9169.9
3	\$139,860	75.98	2	\$142,020	9177.4
2	\$93,240	75.83	1	\$71,010	9184.9
1	\$46,620	75.68	0	\$0	9192.4
	\$0	75.53	0	\$0	9267.4
0	\$0	75.53	0	\$0	9342.4
	\$0	75.53	-1	(\$71,010)	9349.9
-1	(\$105,110)	75.23	-2	(\$142,020)	9357.4
-2	(\$210,220)	74.92	-3	(\$213,030)	9364.9
-3	(\$315,330)	74.62	-4	(\$284,040)	9372.4
-4	(\$420,440)	74.31	-5	(\$355,050)	9379.9
-5	(\$525,550)	74.01	-6	(\$426,060)	9387.4
-6	(\$630,660)	73.70	-6.391	(\$453,802)	9390.1
-7	(\$735,770)	73.39	-7	(\$497,070)	9394.9
-8	(\$840,880)	73.09	-8	(\$568,080)	9402.4
-9	(\$945,990)	72.78	-9	(\$639,090)	9409.9
-10	(\$1,051,100)	72.48	-10	(\$710,100)	9417.4

Equivalent Availability
 Weighting Factor:

 3.54%

Heat Rate
 Weighting Factor:

 7.50%

Issued by: FPC

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 Effective:
 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Anclote 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$317,200	93.58	10	\$1,369,200	9373.8
9	\$285,480	93.35	9	\$1,232,280	9400.8
8	\$253,760	93.12	8	\$1,095,360	9427.8
7	\$222,040	92.89	7	\$958,440	9454.7
6	\$190,320	92.66	6	\$821,520	9481.7
5	\$158,600	92.43	5	\$684,600	9508.7
4	\$126,880	92.20	4	\$547,680	9535.7
3	\$95,160	91.97	3	\$410,760	9562.6
**** 2.917 2	\$210,772	91.95	2	\$273,840	9589.6
1	\$63,440	91.74	1	\$136,920	9616.6
0	\$31,720	91.51	0	\$0	9643.5
0	\$0	91.28	0	\$0	9718.5
0	\$0	91.28	0	\$0	9793.5
0	\$0	91.28	-0.082	(\$11,235)	9795.5 ****
-1	(\$72,250)	90.82	-1	(\$136,920)	9820.5
-2	(\$144,500)	90.35	-2	(\$273,840)	9847.5
-3	(\$216,750)	89.88	-3	(\$410,760)	9874.4
-4	(\$289,000)	89.42	-4	(\$547,680)	9901.4
-5	(\$361,250)	88.95	-5	(\$684,600)	9928.4
-6	(\$433,500)	88.48	-6	(\$821,520)	9955.4
-7	(\$505,750)	88.01	-7	(\$958,440)	9982.3
-8	(\$578,000)	87.55	-8	(\$1,095,360)	10009.3
-9	(\$650,250)	87.08	-9	(\$1,232,280)	10036.3
-10	(\$722,500)	86.61	-10	(\$1,369,200)	10063.2

Equivalent Availability
Weighting Factor:

2.11%

Heat Rate
Weighting Factor:

10.54%

Issued by: FPC

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Docket No.:
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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1997 - September, 1997
 Unit: Anclote 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$477,500	97.53	10	\$997,100	9408.5
9	\$429,750	97.31	9	\$897,390	9427.1
8	\$382,000	97.09	8	\$797,680	9445.6
7	\$334,250	96.87	7	\$697,970	9464.1
6	\$286,500	96.65	6	\$598,260	9482.6
5	\$238,750	96.43	5	\$498,550	9501.2
4	\$191,000	96.20	4	\$398,840	9519.7
3	\$143,250	95.98	3	\$299,130	9538.2
2	\$95,500	95.76	2	\$199,420	9556.8
1	\$47,750	95.54	1	\$99,710	9575.3
0	\$0	95.32	0	\$0	9593.8
	0.00	95.32	0	\$0	9668.8
	\$0	95.32	0	\$0	9743.8
-1	(\$114,260)	94.87	-0.112	(\$11,148)	9745.6
-2	(\$228,520)	94.41	-1	(\$99,710)	9762.3
-3	(\$342,780)	93.96	-2	(\$199,420)	9780.9
-4	(\$457,040)	93.51	-3	(\$299,130)	9799.4
-5	(\$571,300)	93.05	-4	(\$398,840)	9817.9
**** -5.095	(\$582,134)	93.01	-5	(\$498,550)	9836.4
-6	(\$685,560)	92.60	-6	(\$598,260)	9855.0
-7	(\$799,820)	92.14	-7	(\$697,970)	9873.5
-8	(\$914,080)	91.69	-8	(\$797,680)	9892.0
-9	(\$1,028,340)	91.23	-9	(\$897,390)	9910.5
-10	(\$1,142,600)	90.78	-10	(\$997,100)	9929.1

Equivalent Availability
 Weighting Factor:

 3.05%

Heat Rate
 Weighting Factor:

 7.44%

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ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 1	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	92.34	97.86	93.29	89.15	96.85	96.70	94.37
2. PH	719	744	720	744	744	720	4391
3. SH	672.2	744.0	715.1	696.7	744.0	720.0	4292.0
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	46.8	0.0	4.9	47.3	0.0	0.0	98.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	0.6	0.0	0.0	0.0	0.0	0.0	0.6
8. MOH	46.2	0.0	4.9	47.3	0.0	0.0	98.3
9. PFOH	28.2	36.0	507.4	369.9	69.5	102.9	1113.9
10. LR PF (MW)	109.5	164.3	31.9	33.7	125.7	85.9	49.5
11. PNOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PH (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	372	372	372	372	372	372	372
14. OPER MBTU	2209882	2366385	2252021	2222573	2529735	2398525	13979121
15. NET GEN (MWH)	225788	242190	229050	225612	255371	244015	1422026
16. ANOHR (BTU/KWH)	9787.4	9770.8	9832.0	9851.3	9906.1	9829.4	9830.4
17. NOF (%)	90.3	87.5	86.1	87.0	92.3	91.1	89.1
18. NPC (MW)	372	372	372	372	372	372	372

ANOHR EQUATION: ANOHR = -12.711 * NOF + 10970.4

ISSUED BY: FLORIDA POWER CORPORATION

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ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

CRYSTAL RIVER 2	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	85.20	84.15	97.13	96.14	80.88	84.58	88.00
2. PH	719	744	720	744	744	720	4391
3. SH	615.8	644.4	720.0	744.0	635.4	639.5	3999.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	103.3	99.6	0.0	0.0	108.6	80.5	392.0
6. POH	98.5	0.0	0.0	0.0	12.4	0.0	110.9
7. FOH	4.8	2.8	0.0	0.0	96.2	68.2	172.0
8. MOH	0.0	96.8	0.0	0.0	0.0	12.3	109.1
9. PFOH	9.9	128.5	44.4	79.8	102.3	110.1	475.0
10. LR PF (MW)	150.5	66.7	218.3	168.4	153.9	129.8	133.1
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	468	468	468	468	468	468	468
14. OPER MBTU	2580656	2441304	2981946	3140889	2617511	2679647	16441953
15. NET GEN (MWH)	265031	251589	305124	321175	265753	274717	1683389
16. ANOHR (BTU/KWH)	9737.2	9703.5	9772.9	9779.4	9849.4	9754.2	9767.2
17. NOF (%)	92.0	83.4	90.6	92.2	89.4	91.8	89.9
18. NPC (MW)	468	468	468	468	468	468	468

ANOHR EQUATION: ANOHR = -7.009 * NOF + 10449.0

ISSUED BY: FLORIDA POWER CORPORATION

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ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 3	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. PH	719	744	720	744	744	720	4391
3. SH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PH (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	740.0	740.0	740.0	740.0	740.0	740.0	740.0
14. OPER MBTU	0	0	0	0	0	0	0
15. NET GEN (MWH)	0	0	0	0	0	0	0
16. ANOHR (BTU/KWH)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. NOF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. NPC (MW)	740.0	740.0	740.0	740.0	740.0	740.0	740.0

ANOHR EQUATION: ANOHR = -46.225 * NOF + 10164.2

ISSUED BY: FLORIDA POWER CORPORATION

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ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 4	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	99.52	98.60	98.31	99.82	96.76	98.98	98.66
2. PH	719	744	720	744	744	720	4391
3. SH	719.0	733.6	720.0	744.0	730.9	720.0	4367.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	0.0	10.4	0.0	0.0	13.1	0.0	23.5
6. POR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	0.0	10.4	0.0	0.0	13.1	0.0	23.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	29.3	0.0	125.6	19.2	168.1	18.6	360.8
10. LR PF (MW)	82.8	0.0	67.6	47.8	45.8	275.8	68.4
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	697	697	697	697	697	697	697
14. OPER MBTU	4582366	4657463	4540502	4872122	4582301	4245372	27480126
15. NET GEN (MWH)	485499	498914	479830	516436	484190	446883	2911752
16. ANOHR (BTU/KWH)	9438.5	9335.2	9462.7	9434.1	9463.8	9500.0	9437.7
17. NOF (%)	96.9	97.6	95.6	99.6	95.0	89.0	95.7
18. NPC (MW)	697.0	697.0	697.0	697.0	697.0	697.0	697

ANOHR EQUATION: ANOHR = -9.076 * NOF + 10164.2

ISSUED BY: FLORIDA POWER CORPORATION

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ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 5	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	0.18	97.74	99.71	99.63	99.58	98.47	82.84
2. PH	719	744	720	744	744	720	4391
3. SH	1.3	737.2	720.0	744.0	744.0	712.0	3658.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	717.7	6.9	0.0	0.0	0.0	8.0	732.6
6. POH	717.7	0.0	0.0	0.0	0.0	0.0	717.7
7. FOH	0.0	6.9	0.0	0.0	0.0	8.0	14.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	0.0	28.1	31.0	20.2	45.2	4.8	129.3
10. LR PF (MW)	0.0	246.8	47.7	95.1	47.7	440.9	113.0
11. PNOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PH (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	697	697	697	697	697	697	697
14. OPER MBTU	9440	4131785	4661319	4881621	4855364	4207002	22746531
15. NET GEN (MWH)	6.0	441651.0	493643.0	518540.0	515234.0	445207.0	2414281.0
16. ANOHR (BTU/KWH)	1573292.8	9355.3	9442.7	9414.2	9423.6	9449.5	9421.7
17. NOF (%)	0.6	86.0	98.4	100.0	99.4	89.7	94.7
18. NPC (MW)	697.0	697.0	697.0	697.0	697.0	697.0	697

ANOHR EQUATION: ANOHR = -6.545 * NOF + 9918.4

ISSUED BY: FLORIDA POWER CORPORATION

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ACTUAL UNIT PERFORMANCE DATA
 FLORIDA POWER CORPORATION

ANCLOTE 1	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	97.12	98.47	91.53	95.64	93.13	97.76	95.61
2. PH	719	744	720	744	744	720	4391
3. SH	569.2	744.0	632.4	723.1	710.4	720.0	4099.1
4. RSH	0.0	0.0	38.1	0.0	0.0	0.0	38.1
5. UH	0.0	0.0	49.5	20.9	33.6	0.0	104.0
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	0.0	0.0	34.8	20.9	33.6	0.0	89.3
8. MOH	0.0	0.0	14.7	0.0	0.0	0.0	14.7
9. PFOH	62.4	33.4	45.0	34.8	52.9	48.7	277.1
10. LR PF (MW)	169.7	174.7	130.4	169.7	169.7	169.7	163.9
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	511	511	511	511	511	511	511
14. OPER MBTU	1454757	1787232	1751838	2266261	2223976	2221724	11705788
15. NET GEN (MMH)	147185	176368	171247	224276	221674	222852	1163602
16. ANOHR (BTU/KMH)	9883.9	10133.5	10229.9	10104.8	10032.6	9969.5	10060.0
17. NOF (%)	50.6	46.4	53.0	60.7	61.1	60.6	55.6
18. NPC (MW)	511.0	511.0	511.0	511.0	511.0	511.0	511

ANOHR EQUATION: ANOHR = -10.971 * NOF + 10592.2

ISSUED BY: FLORIDA POWER CORPORATION

FILED:
 SUSPENDED:
 EFFECTIVE:
 DOCKET NO.:
 ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

ANCLOTE 2	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97	Apr-Sep Period
1. EAF	98.46	89.79	91.38	90.91	92.76	94.91	93.00
2. PH	719	744	720	744	744	720	4391
3. SH	448.8	692.2	679.0	714.3	720.0	718.2	3972.5
4. RSH	40.2	0.0	0.0	0.0	0.0	0.0	40.2
5. UH	0.0	51.8	41.0	29.7	24.0	1.8	148.3
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	0.0	0.0	7.4	0.0	24.0	1.4	32.8
8. MOH	0.0	51.8	33.6	29.7	0.0	0.3	115.4
9. PFOH	117.2	397.4	223.8	790.4	770.2	761.4	3060.3
10. LR PF (MW)	48.4	31.1	48.1	24.5	19.8	23.4	26.5
11. PNOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PH (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	511	511	511	511	511	511	511
14. OPER MBTU	1199398	1634991	1942053	2316953	2344747	2351883	11790025
15. NET GEN (MWH)	122327	159179	189830	231475	235537	238072	1176420
16. ANOHR (BTU/KWH)	9804.8	10271.4	10230.5	10009.5	9954.9	9878.9	10022.0
17. NOF (%)	53.3	45.0	54.7	63.4	64.0	64.9	58.0
18. NPC (MW)	511.0	511.0	511.0	511.0	511.0	511.0	511

ANOHR EQUATION: ANOHR = -14.726 * NOF + 10798.3

ISSUED BY: FLORIDA POWER CORPORATION

FILED:
SUSPENDED:
EFFECTIVE:
DOCKET NO.:
ORDER NO.:

**OUTAGE SCHEDULES
ACTUALS**

Company: **Florida Power Corporation**
Period of: **April 1997 - September 1997**

<u>Plant/Unit</u>	<u>Actual Outage Dates</u>	<u>Reason for Outage(1)</u>
Anclole 1	04/26(0001) - 05/02(2400)	Inspection
Crystal River 1	09/27(0001) - 10/03(2400)	Inspection
Crystal River 2	03/01(0001) - 04/04(2400)	Boiler
Crystal River 5	03/29(0001) - 05/09(2400)	Boiler

(1) To be accompanied by a critical path bar chart or milestone date chart of major activity to be performed during the outage.

ISSUED BY: FPC

FILED:
SUSPENDED:
EFFECTIVE:
DOCKET NO.:

FLORIDA POWER CORPORATION
ASBESTOS ABATEMENT FOR ANCLOTE #1 1997 BOILER INSPECTION
(indicating dates ending midnight)

4/26 04/27 04/28 04/29 04/30 05/01 05/02 05/03 05/04 09/30 |
 submitted plan period

Shutdown/Cooldown



Wash Air Heater
& Upper Furnace



Boiler Tube
Inspection



Startup



Boiler Inspection
& Repairs



Close Boiler



Misc. Valves
Inspection & Repair



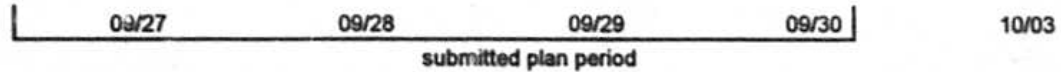
Clean Circulating
Water Pits & Pipe



 = (DENOTES CRITICAL PATH)

FLORIDA POWER CORPORATION
ASBUILT FOR CRYSTAL RIVER #1 1997 INSPECTION

(indicating dates ending midnight)



Shutdown/Cooldown



Wash Air Heater
& Upper Furnace



Turbine/Generator
Inspection



Boiler Inspection



Close Boiler



Startup



 =(DENOTES CRITICAL PATH)

24

FLORIDA POWER CORPORATION

ASBUILT FOR CRYSTAL RIVER #2 1997 BOILER

(indicating dates ending midnight)

03/01 03/02 03/04 03/06 03/09 03/13 03/16 03/19 03/21 03/23 03/26 03/29 | 04/01 04/02 04/03 04/04 04/05 04/06 09/30 |
submitted plan period

Shutdown/Cooldown



Wash Air Heater
& Upper Furnace



Boiler Tube Inspection



Boiler Inspection
and Repairs



Close Boiler



Startup



Coal Mill Inspection
& Repair



Clean Circulating
Pits & Pipes



=(DENOTES CRITICAL PATH)

FLORIDA POWER CORPORATION

ASBUILT FOR CRYSTAL RIVER #5 1997 BOILER

(indicating dates ending midnight)

03/29 03/30 03/31 04/02 04/05 04/10 04/16 04/20 04/24 04/28 05/02 05/06 05/07 05/08 05/09 05/10 05/11 05/12 0930

submitted plan period

Shutdown/Cooldown



Wash Air Heater
& Upper Furnace



Boiler Inspection
and Repairs



Close Boiler



Startup



Cooling Tower Inspection



Coal Mill Inspection
& Repair



Clean Circulating
Pits & Pipes



= (DENOTES CRITICAL PATH)