

**Florida Power**  
CORPORATION

**JAMES A. MCGEE**  
SENIOR COUNSEL

May 19, 1998

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. 980001-EI

Dear Ms. Bayó:

Enclosed for filing in the subject docket are an original and ten copies of the Direct Testimony And Exhibits Of Dario B. Zuloaga and John Scardino Jr. 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.

Very truly yours,

James A. McGee

- ACK
- AFA London
- APP \_\_\_\_\_
- CAF \_\_\_\_\_
- CMU \_\_\_\_\_
- CTR \_\_\_\_\_
- EAG Behrmann
- LEG 1 JAM/kp
- LIN 3 Enclosure
- OPC \_\_\_\_\_ cc: Parties of record
- RCH \_\_\_\_\_
- SEC 1
- WAS \_\_\_\_\_
- OTH \_\_\_\_\_

RECEIVED & FILED

FPSC-BUREAU OF RECORDS

Zuloaga  
DOCUMENT NUMBER-DATE

GENERAL OFFICE 05585 MAY 20 98

DOCUMENT NUMBER-DATE

05586 MAY 20 98

FPSC-RECORDS/REPORTING

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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In re: Fuel and purchased power  
cost recovery clause and  
generating performance incentive  
factor.

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Docket No. 980001-EI

Submitted for filing:  
May 19, 1998

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true copy of the Direct Testimony and Exhibits of Dario B. Zuloaga and John Scardino Jr. on behalf of Florida Power Corporation has been furnished to the following individuals by regular U.S. Mail this 19th day of May, 1998:

Matthew M. Childs, Esq.  
Steel, Hector & Davis  
215 South Monroe Avenue  
Suite 601  
Tallahassee, FL 32301-1804

Barry N.P. Huddleston  
Public Affairs Specialist  
Destec Energy, Inc.  
2500 CityWest Blvd., Ste. 150  
Houston, TX 77210-4411

Lee L. Willis, Esq.  
James D. Beasley, Esq.  
Ausley & McMullen, Esqs.  
P.O. Box 391  
Tallahassee, FL 32302

J. Roger Howe, Esquire  
Office of the Public Counsel  
111 West Madison Street  
Room 182  
Tallahassee, FL 32399-1400

G. Edison Holland, Jr., Esq.  
Jeffrey A. Stone, Esq.  
Beggs & Lane  
P.O. Box 12950  
Pensacola, FL 32576-2950

Suzanne Brownless, Esq.  
1311-B Paul Russell Road  
Suite 202  
Tallahassee, FL 32301

Joseph A. McGlothlin, Esq.  
Vicki Gordon Kaufman, Esq.  
McWhirter, Reeves, McGlothlin,  
Davidson & Bakas  
117 S. Gadsden Street  
Tallahassee, FL 32301

Roger Yott, P.E.  
Air Products & Chemicals, Inc.  
2 Windsor Plaza  
2 Windsor Drive  
Allentown, PA 18195

John W. McWhirter, Jr., Esq.  
McWhirter, Reeves, McGlothlin,  
Davidson & Bakas  
100 North Tampa Street  
Suite 2800  
Tampa, FL 33602-5126

Leslie Paugh, Esq.  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Kenneth A. Hoffman, Esq.  
William B. Willingham, Esq.  
Rutledge, Ecenia, Underwood,  
Purnell & Hoffman, P.A.  
P.O. Box 551  
Tallahassee, FL 32302-0551

Mr. Frank C. Cressman, President  
Florida Public Utilities Company  
P.O. Box 3395  
West Palm Beach, FL 33402-3395

Mr. Don Bruegmann  
Seminole Electric Cooperative, Inc.  
16313 No. Dale Mabry Highway  
Tampa, FL 33688-2000



ATTORNEY

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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In re: Fuel and purchased power  
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ATTORNEY



ORIGINAL

**Florida  
Power**  
CORPORATION

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**BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION**

**DOCKET No. 980001-EI**

**GPIF REWARD/PENALTY AMOUNT FOR  
OCTOBER 1997 THROUGH MARCH 1998**

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

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DOCUMENT NUMBER-DATE **For Filing May 20, 1998**

**05585** MAY 20 1998

FPSC-RECORDS/REPORTING

FLORIDA POWER CORPORATION

Docket No. 980001-EI

Re: GPIF Reward/Penalty Amount for  
October 1997 through March 1998

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, St.  
3 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 system.  
12 In particular, my duties include the preparation of the information and  
13 material required by the Commission's GPIF mechanism.  
14

15 Q. What is the purpose of your testimony?

16 A. The purpose of my testimony is to describe the calculation of the Company's  
17 Generation Performance Incentive Factor (GPIF) reward/penalty amount for  
18 the period of October 1997 through March 1998. This was developed by

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

3  
4 **Q. Do you have an exhibit to your testimony in this proceeding?**

5 A. Yes, under my direction an exhibit (DBZ-1) has been prepared consisting  
6 of the numbered sheets which are attached to my prepared testimony. The  
7 exhibit contains the schedules required by the GPIF Implementation  
8 Manual, which support the development of the incentive amount. I have  
9 also included other data forms to supplement the required schedules.

10  
11 **Q. What GPIF incentive amount have you calculated for this period?**

12 A. I have calculated the Company's GPIF incentive amount to be a penalty of  
13 \$436,639. This amount was developed in a manner consistent with the  
14 GPIF Implementation Manual. Sheet 1 of my exhibit shows the calculation  
15 of system GPIF points and the corresponding reward. The summary of  
16 weighted incentive points earned by each individual unit can be found on  
17 Sheet 3.

18  
19 **Q. How were the incentive points for equivalent availability and heat rate  
20 calculated for the individual GPIF units?**

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



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

3 In performing this calculation, an adjustment was made to correct an  
4 error that was discovered in the equivalent availability and heat rate targets  
5 for Crystal River 3 (CR3). When our GPIF targets were filed last July, CR3  
6 was projected to return to service from its extended outage on January 1,  
7 1998 and operate for the last three months of the October 1997 - March  
8 1998 period with an equivalent availability of 91.37%. By mistake, however,  
9 this three-month availability figure was entered as CR3's equivalent  
10 availability for the entire six-month period, rather than the correct figure of  
11 45.77%. The error in CR3's heat rate target resulted from the erroneous  
12 entry of 20,115,295 MMBtu for the October 1997 - March 1998 projection  
13 period, instead of 15,989,348 MMBtu, the correct figure for three months of  
14 operations. Correcting this error produces a heat rate target for CR3 of  
15 10,267 Btu/kWh, rather than the erroneous target of 12,917 Btu/kWh.

16  
17 **Q. Why is it necessary to make adjustments to the actual performance**  
18 **data for comparison with the targets?**

19 **A.** Adjustments to the actual equivalent availability and heat rate data are  
20 necessary to allow their comparison with the "target" Point Tables exactly  
21 as approved by the Commission prior to the period. These adjustments are  
22 described in the Implementation Manual and are further explained by a Staff  
23 memorandum, dated October 23, 1981, directed to the GPIF utilities. The  
24 adjustments to actual equivalent availability concern primarily the

1 differences between target and actual planned outage hours, and are  
2 shown on Sheet 6 of my exhibit. The heat rate adjustments concern the  
3 differences between the target and actual Net Output Factor (NOF), and are  
4 shown on Sheet 7. The methodology for both the equivalent availability and  
5 heat rate adjustments are explained in the Staff memorandum.  
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**  
9 **equivalent availability?**

10 A. Yes. Sheet 22 of my exhibit summarizes every planned outage experienced  
11 by the Company's GPIF units during the period. Sheets 23 through 28  
12 present an as-worked critical path chart for each individual planned outage.  
13

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

15 A. Yes.

**GPIF REWARD/PENALTY SCHEDULES**

<b><u>Descriptive Title</u></b>	<b><u>Sheet</u></b>
• 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)	22-28

## GENERATING PERFORMANCE INCENTIVE FACTOR

## REWARD/PENALTY TABLE

## ACTUAL

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998

Generating Performance Incentive Points (GPIF)	Fuel Saving/Loss (\$)	Generating Performance Incentive Factor (\$)
-----	-----	-----
10	\$5,997,600	\$3,509,961
9	\$5,397,840	\$3,158,965
8	\$4,798,080	\$2,807,969
7	\$4,198,320	\$2,456,973
6	\$3,598,560	\$2,105,976
5	\$2,998,800	\$1,754,980
4	\$2,399,040	\$1,403,984
3	\$1,799,280	\$1,052,988
2	\$1,199,520	\$701,992
1	\$599,760	\$350,996
0	\$0	\$0
-1	(\$652,250)	(\$350,996)
**** -1.244	(\$746,101)	(\$436,639)
-2	(\$1,304,500)	(\$701,992)
-3	(\$1,956,750)	(\$1,052,988)
-4	(\$2,609,000)	(\$1,403,984)
-5	(\$3,261,250)	(\$1,754,980)
-6	(\$3,913,500)	(\$2,105,976)
-7	(\$4,565,750)	(\$2,456,973)
-8	(\$5,218,000)	(\$2,807,969)
-9	(\$5,870,250)	(\$3,158,965)
-10	(\$6,522,500)	(\$3,509,961)

Issued by: FPC

Filed  
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 Docket No.:  
 Order No.:

GENERATION PERFORMANCE INCENTIVE FACTOR  
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

COMPANY FLORIDA POWER CORPORATION  
FOR THE PERIOD OF  
Period of October, 1997 - March, 1998

1	BEGINNING OF PERIOD BALANCE OF COMMON EQUITY	\$1,775,155,313
2	END OF MONTH BALANCE OF COMMON EQUITY MONTH OF OCTOBER 1997	\$1,790,491,611
3	MONTH OF NOVEMBER 1997	\$1,805,070,959
4	MONTH OF DECEMBER 1997	\$1,767,504,028
5	MONTH OF JANUARY 1998	\$1,780,672,190
6	MONTH OF FEBRUARY 1998	\$1,798,446,359
7	MONTH OF MARCH 1998	\$1,764,293,659
8	AVERAGE COMMON EQUITY FOR THE PERIOD (SUMMATION OF LINE 1 THROUGH LINE 7 DIVIDED BY 7)	\$1,783,090,589
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)	\$3,631,620
12	JURISDICTIONAL SALES	14,744,571 MWH
13	TOTAL SALES	15,255,722 MWH
14	JURISDICTIONAL SEPARATION FACTOR (LINE 12 DIVIDED BY LINE 13)	96.65%
15	MAXIMUM ALLOWED JURISDICTIONAL INCENTIVE DOLLARS (LINE 11 TIMES LINE 14)	\$3,509,961

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## CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998

Plant/Unit	Performance Indicator EAF or ANOHR	Weighting Factor %	Unit Points	Weighted Unit Points
Crystal River 1	EAF	0.95	9.717	0.093
	ANOHR	7.70	0.000	0.000
Crystal River 2	EAF	7.15	-2.555	-0.183
	ANOHR	6.84	0.000	0.000
Crystal River 3	EAF	7.45	-10.000	-0.745
	ANOHR	6.61	10.000	0.661
Crystal River 4	EAF	11.43	-4.396	-0.503
	ANOHR	10.25	-7.276	-0.746
Crystal River 5	EAF	5.10	10.000	0.510
	ANOHR	13.61	-2.504	-0.341
Anclote 1	EAF	0.06	10.000	0.006
	ANOHR	12.31	0.00	0.000
Anclote 2	EAF	0.22	1.438	0.003
	ANOHR	10.33	0.000	0.000
GPIF System		100.00		-1.244

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## GPIF UNIT PERFORMANCE SUMMARY

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998

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	0.95	79.90	83.88	71.98	62.3	650.4	83.77	\$60.5
CR 2	7.15	82.78	88.68	69.36	466.8	881.4	79.35	\$225.2
CR 3	7.45	45.17	47.17	41.12	486.4	734.7	26.67	\$734.7
CR 4	11.43	79.71	82.78	73.51	746.5	1077.6	76.99	\$473.7
CR 5	5.10	96.49	98.15	93.06	332.8	629.4	98.64	\$332.8
AN 1	0.06	76.80	78.66	73.06	3.9	28.0	79.88	\$3.9
AN 2	0.22	92.69	94.32	89.33	14.4	90.9	92.92	\$2.1
GPIF System	32.36				2113.1	4,092.4		\$1,832.9

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	7.70	9623	92.7	9388	9857	502.6	(502.6)	9570.0	\$0.0
CR 2	6.84	9453	99.5	9303	9603	446.6	(446.6)	9509.9	\$0.0
CR 3	6.61	10267	103.4	10117	10417	431.5	(431.5)	10082.2	\$431.5
CR 4	10.25	9307	87.6	9157	9457	669.1	(669.1)	9436.4	(\$486.8)
CR 5	13.61	9248	97.6	9098	9398	888.9	(888.9)	9341.5	(\$222.5)
AN 1	12.31	9944	48.2	9446	10442	803.8	(803.8)	10006.85	\$0.0
AN 2	10.33	10019	41.8	9589	10448	674.5	(674.5)	10080.23	\$0.0
GPIF System	67.64					4417.0	(4,417.0)		(\$277.9)

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## ACTUAL UNIT PERFORMANCE DATA

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998

PLANT/UNIT	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	EAF ADJUSTED ACTUAL %
CRYSTAL RIVER 1	94.70	-10.92	83.77
CRYSTAL RIVER 2	83.00	-3.65	79.35
CRYSTAL RIVER 3	26.67	0.00	26.67
CRYSTAL RIVER 4	77.05	-0.06	76.99
CRYSTAL RIVER 5	98.64	0.00	98.64
ANCLOTE UNIT 1	79.80	0.08	79.88
ANCLOTE UNIT 2	85.10	7.82	92.92
PLANT/UNIT	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ANOHR ADJUSTED ACTUAL BTU/KWH
CRYSTAL RIVER 1	9749.2	-179.2	9570.0
CRYSTAL RIVER 2	9770.0	-260.1	9509.9
CRYSTAL RIVER 3	10357.7	-275.4	10082.2
CRYSTAL RIVER 4	9431.3	5.1	9436.4
CRYSTAL RIVER 5	9358.7	-17.3	9341.5
ANCLOTE UNIT 1	9949.5	57.4	10006.9
ANCLOTE UNIT 2	10002.3	77.91	10080.2

(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 October, 1997 - March, 1998

EAF ADJUSTMENTS FOR PLANNED OUTAGE HOURS		CR1	CR2	CR3	CR4	CR5	AN1	AN2
1	ACTUAL POH HRS	0 00	0 00	2209 00	597 00	0 00	843 47	521 59
2	TARGET POH HRS	504 00	192 00	2209 00	600 00	0 00	840 00	168 00
3	ADJ. FACTOR (PH-POHT/PH-POHA)	0 88	0 96	1 00	1 00	1 00	1 00	1 09
4	ACTUAL EUOH * HRS	231 71	742 81	994 95	405 73	59 55	39 20	129 24
5	ADJ. EUOH (3*4) HRS	204 98	710 17	994 95	405 40	59 55	39 24	141 12
6	ACTUAL EAF * %	94 70	83 00	26 67	77 05	98 64	79 80	85 10
7	ADJUSTED EAF (using 2 & 5) %	83 77	79 35	26 67	76 99	98 64	79 88	92 92
8	DIFFERENCE %	-10 92	-3 65	0 00	-0 06	0 00	0 08	7 82
9	TOTAL ADJ TO EAF (6 + 8) %	-10 92	-3 65	0 00	-0 06	0 00	0 08	7 82

\*Actual EUOH and actual EAF are the adjusted values in Nos. 3 and 5 above

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## ADJUSTMENTS TO ANOHR ACTUAL

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998

	CR 1	CR 2	CR 3	CR 4	CR 5	AN 1	AN 2
ANOHR adj for Target NOF							
1 Target NOF %	92.7	99.5	103.4	87.6	97.6	48.2	41.8
2 Target ANOHR Btu/kwh	9622.6	9453.3	10267.2	9306.8	9247.7	9943.8	10018.7
3 Actual NOF %	82.7	83.9	98.0	88.5	92.1	51.2	48.8
4 Calc ANOHR Btu/kwh (using 3)	9801.8	9713.4	10542.7	9301.7	9264.9	9886.4	9940.8
5 Total adj to ANOHR (2-4)	-179.2	-260.1	-275.4	5.1	-17.3	57.4	77.9

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## GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998  
 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	\$62,300	83.88	10	\$502,600	9388.1
9.717	\$60,538	83.77	9	\$452,340	9404.0
9	\$56,070	83.49	8	\$402,080	9420.0
8	\$49,840	83.09	7	\$351,820	9435.9
7	\$43,610	82.69	6	\$301,560	9451.9
6	\$37,380	82.29	5	\$251,300	9467.8
5	\$31,150	81.89	4	\$201,040	9483.8
4	\$24,920	81.49	3	\$150,780	9499.7
3	\$18,690	81.10	2	\$100,520	9515.7
2	\$12,460	80.70	1	\$50,260	9531.6
1	\$6,230	80.30	0	\$0	9547.6
	\$0	79.90	0.000	\$0	9570.0
0	\$0	79.90	0	\$0	9522.6
	\$0	79.90	0	\$0	9697.6
-1	(\$65,040)	79.11	-1	(\$50,260)	9713.5
-2	(\$130,080)	78.31	-2	(\$100,520)	9729.5
-3	(\$195,120)	77.52	-3	(\$150,780)	9745.4
-4	(\$260,160)	76.73	-4	(\$201,040)	9761.4
-5	(\$325,200)	75.94	-5	(\$251,300)	9777.3
-6	(\$390,240)	75.15	-6	(\$301,560)	9793.3
-7	(\$455,280)	74.35	-7	(\$351,820)	9809.2
-8	(\$520,320)	73.56	-8	(\$402,080)	9825.2
-9	(\$585,360)	72.77	-9	(\$452,340)	9841.1
-10	(\$650,400)	71.98	-10	(\$502,600)	9857.1

Equivalent Availability  
 Weighting Factor:

0.95%

Heat Rate  
 Weighting Factor:

7.70%

Issued by: FPC

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## GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998  
 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	\$466,800	88.68	10	\$446,600	9303.3
9	\$420,120	88.09	9	\$401,940	9310.8
8	\$373,440	87.50	8	\$357,280	9318.3
7	\$326,760	86.91	7	\$312,620	9325.8
6	\$280,080	86.32	6	\$267,960	9333.3
5	\$233,400	85.73	5	\$223,300	9340.8
4	\$186,720	85.14	4	\$178,640	9348.3
3	\$140,040	84.55	3	\$133,980	9355.8
2	\$93,360	83.96	2	\$89,320	9363.3
1	\$46,680	83.37	1	\$44,660	9370.8
	\$0	82.78	0	\$0	9378.3
0	\$0	82.78	0	\$0	9453.3
	\$0	82.78	0.000	\$0	9509.9
-1	(\$88,140)	81.44	0	\$0	9528.3
-2	(\$176,280)	80.10	-1	(\$44,660)	9535.8
-2.555	(\$119,272)	79.35	-2	(\$89,320)	9543.3
-3	(\$264,420)	78.75	-3	(\$133,980)	9550.8
-4	(\$352,560)	77.41	-4	(\$178,640)	9558.3
-5	(\$440,700)	76.07	-5	(\$223,300)	9565.8
-6	(\$528,840)	74.73	-6	(\$267,960)	9573.3
-7	(\$616,980)	73.39	-7	(\$312,620)	9580.8
-8	(\$705,120)	72.04	-8	(\$357,280)	9588.3
-9	(\$793,260)	70.70	-9	(\$401,940)	9595.8
-10	(\$881,400)	69.36	-10	(\$446,600)	9603.3

Equivalent Availability  
 Weighting Factor:

7.15%

Heat Rate  
 Weighting Factor:

6.84%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998  
 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	\$486,400	47.17	10.000	\$431,500	10082.2
9	\$437,760	46.97	10	\$431,500	10117.2
8	\$389,120	46.77	9	\$388,350	10124.7
7	\$340,480	46.57	8	\$345,200	10132.2
6	\$291,840	46.37	7	\$302,050	10139.7
5	\$243,200	46.17	6	\$258,900	10147.2
4	\$194,560	45.97	5	\$215,750	10154.7
3	\$145,920	45.77	4	\$172,600	10162.2
2	\$97,280	45.57	3	\$129,450	10169.7
1	\$48,640	45.37	2	\$86,300	10177.2
0	\$0	45.17	1	\$43,150	10184.7
0	\$0	45.17	0	\$0	10192.2
-1	(\$73,470)	44.77	0	\$0	10267.2
-2	(\$146,940)	44.36	-1	(\$43,150)	10342.2
-3	(\$220,410)	43.96	-2	(\$86,300)	10349.7
-4	(\$293,880)	43.55	-3	(\$129,450)	10357.2
-5	(\$367,350)	43.15	-4	(\$172,600)	10364.7
-6	(\$440,820)	42.74	-5	(\$215,750)	10372.2
-7	(\$514,290)	42.34	-6	(\$258,900)	10379.7
-8	(\$587,760)	41.93	-7	(\$302,050)	10387.2
-9	(\$661,230)	41.53	-8	(\$345,200)	10394.7
-10	(\$734,700)	41.12	-9	(\$388,350)	10402.2
**** -10.000	(\$734,700)	30.78	-10	(\$431,500)	10409.7
					10417.2

Equivalent Availability  
 Weighting Factor:  
7.45%

Heat Rate  
 Weighting Factor:  
6.61%

Issued by: FPC

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 Effective  
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## GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company Florida Power Corporation  
 Period of October, 1997 - March, 1998  
 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	\$746,500	82.78	10	\$669,100	9156.8	
9	\$671,850	82.47	9	\$602,190	9164.3	
8	\$597,200	82.16	8	\$535,280	9171.8	
7	\$522,550	81.86	7	\$468,370	9179.3	
6	\$447,900	81.55	6	\$401,460	9186.8	
5	\$373,250	81.24	5	\$334,550	9194.3	
4	\$298,600	80.93	4	\$267,640	9201.8	
3	\$223,950	80.63	3	\$200,730	9209.3	
2	\$149,300	80.32	2	\$133,820	9216.8	
1	\$74,650	80.01	1	\$66,910	9224.3	
	\$0	79.71	0	\$0	9231.8	
0	\$0	79.71	0	\$0	9306.8	
	\$0	79.71	0	\$0	9381.8	
-1	(\$107,760)	79.09	-1	(\$66,910)	9389.3	
-2	(\$215,520)	78.47	-2	(\$133,820)	9396.8	
-3	(\$323,280)	77.85	-3	(\$200,730)	9404.3	
-4	(\$431,040)	77.23	-4	(\$267,640)	9411.8	
****	-4.396	(\$473,685)	76.99	-5	(\$334,550)	9419.3
	-5	(\$538,800)	76.61	-6	(\$401,460)	9426.8
	-6	(\$646,560)	75.99	-7	(\$468,370)	9434.3
	-7	(\$754,320)	75.37	-7.276	(\$486,822)	9436.4
	-8	(\$862,080)	74.75	-8	(\$535,280)	9441.8
	-9	(\$969,840)	74.13	-9	(\$602,190)	9449.3
	-10	(\$1,077,600)	73.51	-10	(\$669,100)	9456.8

Equivalent Availability  
 Weighting Factor:

11.43%

Heat Rate  
 Weighting Factor:

10.25%

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## GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998  
 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	98 64	10	\$888,900	9097 7
	10	98 15	9	\$800,010	9105 2
	9	97 98	8	\$711,120	9112 7
	8	97 82	7	\$622,230	9120 2
	7	97 65	6	\$533,340	9127 7
	6	97 49	5	\$444,450	9135 2
	5	97 32	4	\$355,560	9142 7
	4	97 16	3	\$266,670	9150 2
	3	96 99	2	\$177,780	9157 7
	2	96 83	1	\$88,890	9165 2
	1	96 66	0	\$0	9172 7
	0	96 49	0	\$0	9247 7
	0	96 49	0	\$0	9322 7
	0	96 49	-1	(\$88,890)	9330 2
	-1	96 15	-2	(\$177,780)	9337 7
	-2	95 81	-2 504	(\$222,550)	9341 5
	-3	95 47	-3	(\$266,670)	9345 2
	-4	95 12	-4	(\$355,560)	9352 7
	-5	94 78	-5	(\$444,450)	9360 2
	-6	94 44	-6	(\$533,340)	9367 7
	-7	94 09	-7	(\$622,230)	9375 2
	-8	93 75	-8	(\$711,120)	9382 7
	-9	93 41	-9	(\$800,010)	9390 2
	-10	93 06	-10	(\$888,900)	9397 7

Equivalent Availability  
 Weighting Factor:

5.10%

Heat Rate  
 Weighting Factor:

13.61%

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## GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998  
 Unit: Anclote 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
****					
10 000	\$3,900	79.88	10	\$803,800	9445.6
10	\$3,900	78.66	9	\$723,420	9487.9
9	\$3,510	78.47	8	\$643,040	9530.3
8	\$3,120	78.29	7	\$562,660	9572.6
7	\$2,730	78.10	6	\$482,280	9614.9
6	\$2,340	77.92	5	\$401,900	9657.2
5	\$1,950	77.73	4	\$321,520	9699.5
4	\$1,560	77.54	3	\$241,140	9741.8
3	\$1,170	77.36	2	\$160,760	9784.2
2	\$780	77.17	1	\$80,380	9826.5
1	\$390	76.99	0	\$0	9868.8
0	\$0	76.80	0	\$0	9943.8
0	\$0	76.80	0.000	\$0	10006.9
0	\$0	76.80	0	\$0	10018.8
-1	(\$2,800)	76.43	-1	(\$80,380)	10061.1
-2	(\$5,600)	76.05	-2	(\$160,760)	10103.4
-3	(\$8,400)	75.68	-3	(\$241,140)	10145.8
-4	(\$11,200)	75.31	-4	(\$321,520)	10188.1
-5	(\$14,000)	74.93	-5	(\$401,900)	10230.4
-6	(\$16,800)	74.56	-6	(\$482,280)	10272.7
-7	(\$19,600)	74.18	-7	(\$562,660)	10315.0
-8	(\$22,400)	73.81	-8	(\$643,040)	10357.3
-9	(\$25,200)	73.44	-9	(\$723,420)	10399.7
-10	(\$28,000)	73.06	-10	(\$803,800)	10442.0

Equivalent Availability  
 Weighting Factor:

0.06%

Heat Rate  
 Weighting Factor:

12.31%

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## GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation  
 Period of: October, 1997 - March, 1998  
 Unit: Anclote 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$14,400	94.32	10	\$674,500	9589.4
9	\$12,960	94.16	9	\$607,050	9624.8
8	\$11,520	94.00	8	\$539,600	9660.2
7	\$10,080	93.83	7	\$472,150	9695.7
6	\$8,640	93.67	6	\$404,700	9731.1
5	\$7,200	93.51	5	\$337,250	9766.5
4	\$5,760	93.34	4	\$269,800	9802.0
3	\$4,320	93.18	3	\$202,350	9837.4
2	\$2,880	93.02	2	\$134,900	9872.8
**** 1.438	\$2,071	92.93	1	\$67,450	9908.3
1	\$1,440	92.85	0	\$0	9943.7
0	\$0	92.69	0	\$0	10018.7
	0.00	92.69	0.000	\$0	10080.2
	\$0	92.69	0	\$0	10093.7
		92.36	-1	(\$67,450)	10129.1
-1	(\$9,090)	92.36	-1	(\$67,450)	10129.1
-2	(\$18,180)	92.02	-2	(\$134,900)	10164.6
-3	(\$27,270)	91.68	-3	(\$202,350)	10200.0
-4	(\$36,360)	91.35	-4	(\$269,800)	10235.4
-5	(\$45,450)	91.01	-5	(\$337,250)	10270.9
-6	(\$54,540)	90.68	-6	(\$404,700)	10306.3
-7	(\$63,630)	90.34	-7	(\$472,150)	10341.7
-8	(\$72,720)	90.00	-8	(\$539,600)	10377.2
-9	(\$81,810)	89.67	-9	(\$607,050)	10412.6
-10	(\$90,900)	89.33	-10	(\$674,500)	10448.0

Equivalent Availability  
 Weighting Factor:

0.22%

Heat Rate  
 Weighting Factor:

10.33%

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ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

CRYSTAL RIVER 1	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1 EAF	90.44	90.93	96.68	98.58	95.74	95.79	94.70
2 PH	745	720	744	744	672	744	4369
3 SH	686.1	673.2	742.2	736.1	672.0	744.0	4253.6
4 RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 UH	58.9	46.8	1.8	7.9	0.0	0.0	115.4
6 POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 FOH	0.0	18.0	1.8	0.0	0.0	0.0	19.8
8 MOH	58.9	28.8	0.0	7.9	0.0	0.0	95.6
9 PFOH	97.1	93.0	77.4	0.6	163.1	122.3	553.4
10 LR PF (MW)	47.1	74.2	109.9	93.6	37.6	18.6	51.4
11. PMOH	0.0	0.0	0.0	5.0	27.6	62.9	95.4
12. LR PM (MW)	0.0	0.0	0.0	186.0	164.1	149.2	155.4
13. NSC (MW)	372	372	372	372	372	372	372
14. OPER MBTU	2155009	2033859	2347962	2261233	1877915	2086331	12762309
15. NET GEN (MWH)	221677	207014	240528	233759	190845	215235	1309058
16. ANOHR (BTU/KWH)	9721.4	9824.7	9761.7	9673.4	9840.0	9693.3	9749.2
17. NOF (%)	86.9	82.7	87.1	85.4	76.3	77.8	82.7
18. NPC (MW)	372	372	372	372	372	372	372

ANOHR EQUATION: ANOHR = -18.042 \* NOF + 11294.4

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ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

CRYSTAL RIVER 2	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1 EAF	95.71	72.59	73.99	81.89	96.53	78.24	83.00
2 PH	745	720	744	744	672	744	4369
3 SH	745.0	588.7	597.8	652.9	672.0	584.6	3841.0
4 RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 UH	0.0	131.3	146.2	91.1	0.0	159.4	528.0
6 POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 FOH	0.0	0.0	3.5	85.6	0.0	0.0	89.1
8 MOH	0.0	131.3	142.7	5.5	0.0	159.4	438.9
9 PFOH	133.8	297.0	245.5	238.6	0.0	82.3	997.1
10 LR PF (MW)	111.9	104.0	90.3	72.6	0.0	14.5	86.8
11 PMOH	0.0	0.0	0.0	33.3	46.6	0.0	79.9
12 LR PM (MW)	0.0	0.0	0.0	93.6	234.0	0.0	175.5
13 NSC (MW)	468	468	468	468	468	468	468
14 OPER MBTU	3041027	2149250	2420533	2274141	2419214	2422449	14726613
15 NET GEN (MWH)	313229	218223	245001	234361	246341	250176	1507331
16 ANOHR (BTU/KWH)	9708.6	9848.9	9879.7	9703.6	9820.6	9683.0	9770.0
17 NOF (%)	89.8	79.2	87.6	76.7	78.3	91.4	83.9
18 NPC (MW)	468	468	468	468	468	468	468

ANOHR EQUATION: ANOHR = -16.590 \* NOF + 11104.5

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ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

CRYSTAL RIVER 3	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1. EAF	0.00	0.00	0.00	0.00	62.66	100.00	26.67
2. PH	745	720	744	744	672	744	4369
3. SH	0.0	0.0	0.0	0.0	486.4	744.0	1230.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	745.0	720.0	744.0	744.0	185.6	0.0	3138.6
6. POH	745.0	720.0	744.0	0.0	0.0	0.0	2209.0
7. FOH	0.0	0.0	0.0	744.0	171.5	0.0	915.5
8. MOH	0.0	0.0	0.0	0.0	14.1	0.0	14.1
9. PFOH	0.0	0.0	0.0	0.0	44.4	2.2	46.6
10. LR PF (MW)	0.0	0.0	0.0	0.0	307.2	3.9	293.1
11. PMOH	0.0	0.0	0.0	0.0	104.0	0.0	104.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	335.9	0.0	335.9
13. NSC (MW)	743.0	743.0	743.0	743.0	743.0	743.0	743.0
14. OPER MBTU	0	0	0	0	3419751	5858541	9278292
15. NET GEN (MWH)	0	0	0	0	322123	573666	895789
16. ANOHR (BTU/KWH)	0.0	0.0	0.0	0.0	10616.3	10212.5	10357.7
17. NOF (%)	0.0	0.0	0.0	0.0	89.2	103.8	98.0
18. NPC (MW)	743.0	743.0	743.0	743.0	743.0	743.0	743.0

ANOHR EQUATION: ANOHR = -50.668 \* NOF + 15507.3

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ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

CRYSTAL RIVER 4	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1 EAF	91.49	81.99	81.48	91.74	98.00	19.76	77.05
2 PH	745	720	744	744	672	744	4369
3 SH	682.0	611.3	663.0	715.0	665.2	147.0	3483.5
4 RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 UH	63.0	108.7	81.0	29.0	6.8	597.0	885.5
6 POH	0.0	0.0	0.0	0.0	0.0	597.0	597.0
7 FOH	0.9	0.0	81.0	0.0	6.8	0.0	88.7
8 MOH	62.1	108.7	0.0	29.0	0.0	0.0	199.8
9 PFOH	5.2	123.4	174.8	87.4	13.2	0.0	403.9
10 LR PF (MW)	47.8	118.6	226.5	258.6	353.3	0.0	202.4
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	4269352	3544166	3617134	4191266	3914832	730191	20266961
15 NET GEN (MWH)	455521	378013	381485	442394	413376	78112	2148901
16 ANOHR (BTU/KWH)	9372.5	9375.8	9481.7	9474.1	9470.4	9348.0	9431.3
17 NOF (%)	95.8	88.7	82.6	88.8	89.2	76.2	88.5
18 NPC (MW)	697.0	697.0	697.0	697.0	697.0	697.0	697

ANOHR EQUATION: ANOHR = -5.368 \* NOF + 9776.7

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ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

CRYSTAL RIVER 5	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1 EAF	98.82	99.16	98.71	97.57	98.95	98.67	98.64
2 PH	745	720	744	744	672	744	4369
3 SH	745.0	720.0	744.0	744.0	607.5	744.0	4304.5
4 RSH	0.0	0.0	0.0	0.0	64.5	0.0	64.5
5 UH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 FOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 PFOH	22.5	23.0	201.0	65.8	9.7	0.0	321.9
10 LR PF (MW)	271.9	183.5	33.4	188.6	506.0	0.0	106.7
11 PMOH	0.0	0.0	0.0	4.8	0.0	29.0	33.8
12 LR PM (MW)	0.0	0.0	0.0	47.7	0.0	238.7	211.8
13 NSC (MW)	697	697	697	697	697	697	697
14 OPER MBTU	4654313	4510455	4438904	4521490	3471214	4265263	25861639
15 NET GEN (MWH)	499245.0	483672.0	475715.0	481220.0	366126.0	457394.0	2763372.0
16 ANOHR (BTU/KWH)	9322.7	9325.4	9331.0	9395.9	9480.9	9325.1	9358.7
17 NOF (%)	96.1	96.4	91.7	92.8	86.5	88.2	92.1
18 NPC (MW)	697.0	697.0	697.0	697.0	697.0	697.0	697

ANOHR EQUATION: ANOHR = -3.140 \* NOF + 9554.2

ISSUED BY: FLORIDA POWER CORPORATION

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SUSPENDED  
EFFECTIVE  
DOCKET NO.  
ORDER NO.

ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

ANCLOTE 1	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1. EAF	91.25	20.04	96.81	100.00	99.80	70.87	79.80
2. PH	745	720	744	744	672	744	4369
3. SH	566.6	61.1	444.1	548.1	286.4	505.1	2411.4
4. RSH	135.2	83.2	278.8	195.9	385.6	24.0	1102.7
5. UH	43.2	575.7	21.1	0.0	0.0	214.9	854.8
6. FOH	41.0	575.7	11.9	0.0	0.0	214.9	843.5
7. FOH	2.2	0.0	0.0	0.0	0.0	0.0	2.2
8. MOH	0.0	0.0	9.2	0.0	0.0	0.0	9.2
9. PFOH	161.9	0.0	8.1	0.0	0.0	0.0	170.0
10. LR PF (MW)	69.5	0.0	169.7	0.0	0.0	0.0	74.2
11. PMOH	0.0	0.0	0.0	0.0	4.0	3.5	7.5
12. LR PM (MW)	0.0	0.0	0.0	0.0	169.9	267.2	215.4
13. NSC (MW)	511	511	511	511	511	511	511
14. OPER MBTU	1484581	104028	1161314	1201625	749097	1578894	6279539
15. NET GEN (MWH)	146728	9200	118611	119923	75783	160896	631143
16. ANOHR (BTU/KWH)	10117.9	11307.4	9790.9	10020.0	9884.8	9813.0	9949.5
17. NOF (%)	50.7	29.5	52.3	42.8	51.8	62.3	51.2
18. NPC (MW)	511.0	511.0	511.0	511.0	511.0	511.0	511

ANOHR EQUATION: ANOHR = -18.829 \* NOF + 10850.8

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ACTUAL UNIT PERFORMANCE DATA  
FLORIDA POWER CORPORATION

ANCLOTE 2	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Oct-Mar Period
1 EAF	96.11	87.11	57.94	99.90	99.80	71.23	85.10
2 PH	745	720	744	744	672	744	4369
3 SH	666.4	590.0	431.1	665.8	407.5	568.1	3348.9
4 RSH	78.6	89.0	0.0	57.4	264.5	6.9	496.3
5 UH	0.0	41.0	312.9	0.7	0.0	169.1	523.7
6 POH	0.0	41.0	311.5	0.0	0.0	169.1	521.6
7 FOH	0.0	0.0	1.4	0.7	0.0	0.0	2.2
8 MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 PFOH	762.8	1034.7	0.0	0.0	0.0	217.5	2014.9
10 LR PF (MW)	19.4	25.6	0.0	0.0	0.0	102.7	31.6
11 PMOH	0.0	0.0	0.0	0.0	4.1	9.7	13.8
12 LR PM (MW)	0.0	0.0	0.0	0.0	170.2	68.1	98.5
13 NSC (MW)	511	511	511	511	511	511	511
14 OPER MBTU	1794332	1409527	1173397	1414782	976891	1583854	8352784
15 NET GEN (MWH)	178641	140269	120142	138394	98663	158975	835084
16 ANOHR (BTU/KWH)	10044.4	10048.7	9766.8	10222.9	9901.3	9962.9	10002.3
17 NOF (%)	52.5	46.5	54.5	39.5	47.4	54.8	48.8
18 NPC (MW)	511.0	511.0	511.0	511.0	511.0	511.0	511

ANOHR EQUATION: ANOHR = -11.091 \* NOF + 10482.0

ISSUED BY: FLORIDA POWER CORPORATION

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PLANNED OUTAGE SCHEDULES  
ACTUAL

Company : **Florida Power Corporation**  
Period of : **October 1997 - March 1998**

<u>Plant/Unit</u>	<u>Planned Outage Dates</u>	<u>Reason For Outage<sup>(1)</sup></u>
Anclote 1	10/29(0001) - 11/24(2400)	Boiler
Anclote 2	11/26(0001) - 12/13(2400)	Inspection
Crystal River 1	10/16(0001) - 10/20(2400)	Inspection
Crystal River 2	03/23(0001) - 03/31(2400)	Inspection
Crystal River 4	10/09(0001) - 10/13(2400)	Inspection
Crystal River 4	03/05(0001) - 04/23(2400)	Boiler/Turb./Gen.

<sup>(1)</sup> Accompanied by a critical path bar chart or milestone date chart of major activity performed during the outage.

ISSUED BY: FPC

FILED:  
SUSPENDED:  
EFFECTIVE:  
DOCKET NO.:

# FLORIDA POWER CORPORATION

## ACTUAL FOR ANCLOTE #1 1997 BOILER

(indicating dates ending midnight)

10/29 10/30 10/31 11/1 11/4 11/7 11/10 11/13 11/16 11/19 11/22 11/25 11/28 12/1 12/5 12/6  
 submitted plan period

Shutdown/Cooldown



Wash Air Heater  
& Upper Furnace



Boiler Inspection  
& Repairs



Close Boiler

Startup

Misc. Valves  
Inspection & Repair



Clean Circulating  
Water Pits & Pipe



 - (DENOTES CRITICAL PATH)

23.

**FLORIDA POWER CORPORATION**  
**ACTUAL FOR ANCLOTE #2 1997 BOILER INSPECTION**  
*(indicating dates ending midnight)*

11/26    11/27    11/28    11/29    11/30    12/01    12/07    12/13    12/21    3/31/98 |  
 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)

24.

**FLORIDA POWER CORPORATION**  
**ACTUAL FOR CRYSTAL RIVER #1 1997 BOILER INSPECTION**  
*(indicating dates ending midnight)*

10/16    10/17    10/18    10/19    10/20    10/21    10/22    10/23    10/24    10/25    03/31/98  
 \_\_\_\_\_  
 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)

25.

**FLORIDA POWER CORPORATION**  
**ACTUAL FOR CRYSTAL RIVER #2 1998 BOILER INSPECTION**  
*(indicating dates ending midnight)*

3/23	3/24	3/25	3/26	3/27	3/28	3/29	3/30	3/31/98
submitted plan period								

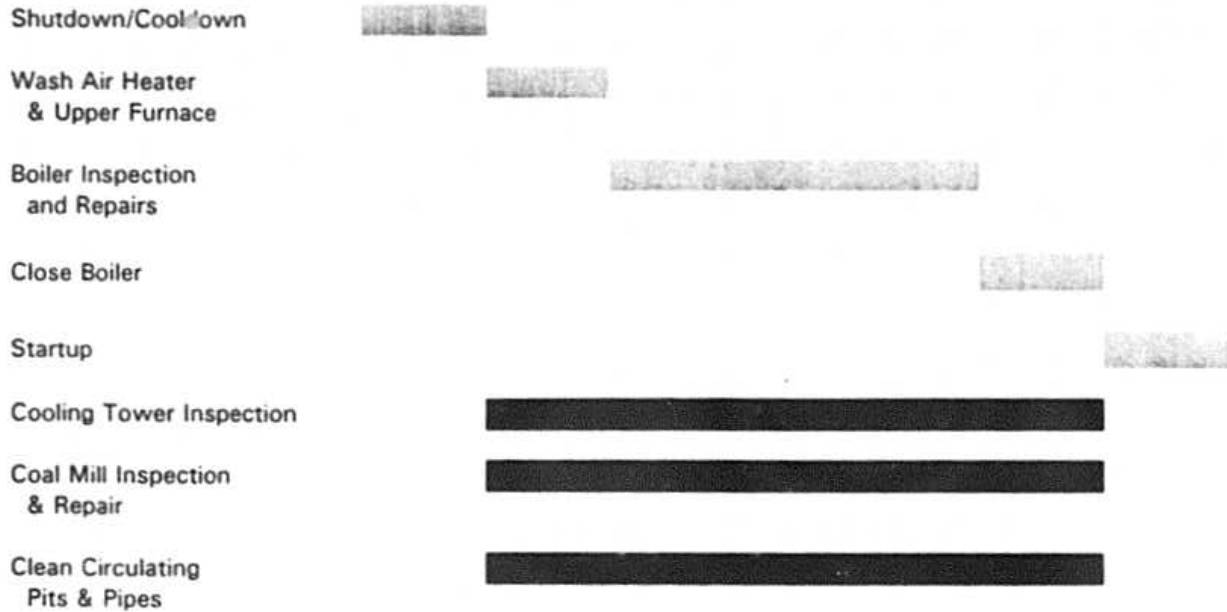


26.

 = (DENOTES CRITICAL PATH)

**FLORIDA POWER CORPORATION**  
**ACTUAL FOR CRYSTAL RIVER #4 1998 BOILER**  
*(indicating dates ending midnight)*

| 10/9    10/10    10/11    10/12    10/13    10/14    10/15    10/16    10/17    10/18    10/19  
 submitted plan period



[Hatched Bar] = (DENOTES CRITICAL PATH)

27.

# FLORIDA POWR CORPORATION

ACTUAL FOR CRYSTAL RIVER #4 1998 TURBINE/GENERATOR/BOILER  
*(indicating dates ending midnight)*

3/05
3/06
3/07
3/21
3/28
4/4
4/11
4/18
4/25
5/1

submitted plan period

Shutdown/Cooldown



Turbine/Generator Inspection  
& Repairs



Wash Air Heater  
& Upper Furnace



Boiler Inspection  
and Repairs



Close Boiler



Startup

Cooling Tower Inspection



Coal Mill Inspection  
& Repair



Circulating Water System  
Inspection



(Critical Path)