

**Florida
Power**
CORPORATION

JAMES A. MCGEE
SENIOR COUNSEL

November 19, 1996

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. 960001-EI

Dear Ms. Bayó:

Enclosed for filing in the subject docket are an original and fifteen copies each 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.

- ACK _____
- AFA 5
- APP _____
- CAF _____
- CMU _____
- CTR _____
- EAG _____
- LEG 1
- LIN 3 + copy
- OPC _____
- RCH _____
- SEC 1
- WAS _____
- OTH _____

JAM/kp
Enclosure
cc: Parties of record

Very truly yours,

James A. McGee

Zuloaga

Scardino
DOCUMENT NUMBER-DATE

DOCUMENT NUMBER-DATE
GENERAL OFFICE

12271 NOV 19 1996

CERTIFICATE OF SERVICE

Docket No. 960001

I HEREBY CERTIFY that a true and correct copy of the Testimony and Exhibits of Dario B. Zuloaga and John Scardino, Jr. has been sent by regular U.S. mail to the following individuals this 19th day of November, 1996:

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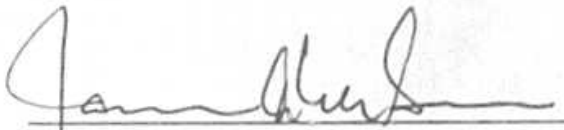
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Attorney

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FILE COPY



**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET No. 960001-EI

**GPIF REWARD/PENALTY AMOUNT FOR
APRIL THROUGH SEPTEMBER 1996**

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

For Filing November 19, 1996

*Document #
12270-96
11/19/96*

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FLORIDA POWER CORPORATION

DOCKET NO. 960001-EI

Re: GPIF Reward/Penalty Amount for
April through September 1996

**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 mechanism.**

14

15

16

17

18

- 1 Q. What is the purpose of your testimony?
- 2 A. The purpose of my testimony is to describe the calculation of the
3 Company's Generation Performance Incentive Factor (GPIF) amount for
4 the period of April through September 1996. This was developed by
5 comparing the actual performance of the Company's seven GPIF
6 generating units to the approved targets set for these units prior to the
7 period.
- 8
- 9 Q. Do you have an exhibit to your testimony in this proceeding?
- 10 A. Yes, under my direction an exhibit (DBZ-1) has been prepared consisting
11 of the numbered sheets which are attached to my prepared testimony.
12 The exhibit contains the schedules required by the GPIF Implementation
13 Manual, which support the development of the incentive amount. I
14 have also included other data forms to supplement the required
15 schedules.
- 16
- 17 Q. What GPIF incentive amount have you calculated for this period?
- 18 A. I have calculated the Company's GPIF incentive amount to be a reward
19 of \$431,674.00. This amount was developed in a manner consistent
20 with the GPIF Implementation Manual. Sheet 1 of my exhibit shows the
21 calculation of system GPIF points and the corresponding reward. The
22 summary of weighted incentive points earned by each individual unit
23 can be found on Sheet 3.
- 24

- 1 Q. How were the incentive points for equivalent availability and heat rate
2 calculated for the individual GPIF units?
- 3 A. The calculation of incentive points is made by comparing the adjusted
4 actual performance data for equivalent availability and heat rate to the
5 target performance indicators for each unit. This comparison is shown
6 on the Generating Performance incentive Points Table found in my
7 exhibit Sheets 8 through 14.
- 8
- 9 Q. Why is it necessary to make adjustments to the actual performance
10 data for comparison with the targets?
- 11 A. Adjustments to the actual equivalent availability and heat rate data are
12 necessary to allow their comparison with the "target" Point Tables
13 exactly as approved by the Commission prior to the period. These
14 adjustments are described in the Implementation Manual and are further
15 explained by a Staff memorandum, dated October 23, 1981, directed
16 to the GPIF utilities. The adjustments to actual equivalent availability
17 concern primarily the differences between target and actual planned
18 outage hours, and are shown on Sheet 6 of my exhibit. The heat rate
19 adjustments concern the differences between the target and actual Net
20 Output Factor (NOF), and are shown on Sheet 7. The methodology for
21 both the equivalent availability and heat rate adjustments are explained
22 in the Staff memorandum.
- 23

1 Q. Have you provided the as-worked planned outage schedules for the
2 Company's GPIF units to support your adjustments to actual equivalent
3 availability?

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

8
9 Q. Does this conclude your testimony?

10 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)	22-25

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996

Generating Performance Incentive Points (GPIF) -----	Fuel Saving/Loss (\$) -----	Generating Performance Incentive Factor (\$) -----
10	\$9,836,930	\$3,518,126
9	\$8,853,237	\$3,166,313
8	\$7,869,544	\$2,814,501
7	\$6,885,851	\$2,462,688
6	\$5,902,158	\$2,110,876
5	\$4,918,465	\$1,759,063
4	\$3,934,772	\$1,407,250
3	\$2,951,079	\$1,055,438
2	\$1,967,386	\$703,625
**** 1.227	\$1,206,991	\$431,674
1	\$983,693	\$351,813
0	\$0	\$0
-1	\$1,380,920	(\$351,813)
-2	\$2,761,840	(\$703,625)
-3	\$4,142,760	(\$1,055,438)
-4	\$5,523,680	(\$1,407,250)
-5	\$6,904,600	(\$1,759,063)
-6	\$8,285,520	(\$2,110,876)
-7	\$9,666,440	(\$2,462,688)
-8	\$11,047,360	(\$2,814,501)
-9	\$12,428,280	(\$3,166,313)
-10	(\$13,809,200)	(\$3,518,126)

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GENERATION PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

COMPANY: FLORIDA POWER CORPORATION
FOR THE PERIOD OF:
APRIL 1996 - SEPTEMBER 1996

1	BEGINNING OF PERIOD BALANCE OF COMMON EQUITY	\$1,762,442,125
2	END OF MONTH BALANCE OF COMMON EQUITY: MONTH OF APRIL 1996	\$1,771,342,274
3	MONTH OF MAY 1996	\$1,789,893,727
4	MONTH OF JUNE 1996	\$1,779,967,591
5	MONTH OF JULY 1996	\$1,808,036,173
6	MONTH OF AUGUST 1996	\$1,842,671,534
7	MONTH OF SEPTEMBER 1996	\$1,838,400,870
8	AVERAGE COMMON EQUITY FOR THE PERIOD (SUMMATION OF LINE 1 THROUGH LINE 7 DIVIDED BY 7)	\$1,798,964,899
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)	\$3,665,951
12	JURISDICTIONAL SALES	16,351,056 MWH
13	TOTAL SALES	17,029,544 MWH
14	JURISDICTIONAL SEPARATION FACTOR (LINE 12 DIVIDED BY LINE 13)	96.02%
15	MAXIMUM ALLOWED JURISDICTIONAL INCENTIVE DOLLARS (LINE 11 TIMES LINE 14)	\$3,518,126

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CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996

Plant/Unit -----	Performance Indicator EAF or ANOHR -----	Weighting Factor % -----	Unit Points -----	Weighted Unit Points -----
Anclote 1	EAF	2.38	-3.140	-0.075
	ANOHR	9.13	0.00	0.000
Anclote 2	EAF	2.80	-7.621	-0.213
	ANOHR	4.83	0.000	0.000
Crystal River 1	EAF	5.79	-2.491	-0.144
	ANOHR	4.43	0.821	0.036
Crystal River 2	EAF	22.84	10.000	2.284
	ANOHR	8.31	0.000	0.000
Crystal River 3	EAF	4.03	-10.000	-0.403
	ANOHR	11.41	0.000	0.000
Crystal River 4	EAF	3.45	-10.000	-0.345
	ANOHR	6.55	0.000	0.000
Crystal River 5	EAF	4.09	2.121	0.087
	ANOHR	9.96	0.000	0.000
GPIF System		10.62		-0.144

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GPIF UNIT PERFORMANCE SUMMARY

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996

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. (%)				
AN 1	2.38	96.05	97.90	92.26	201.1	(474.2)	94.85	(\$148.9)
AN 2	2.80	97.06	98.45	94.19	235.9	(484.2)	94.87	(\$369.0)
CR 1	5.79	86.93	91.24	78.32	488.7	(620.4)	84.78	(\$154.5)
CR 2	22.84	80.45	89.25	64.39	1927.4	(196.6)	92.34	\$1,927.4
CR 3	4.03	90.00	90.85	88.21	340.1	(762.2)	61.36	(\$762.2)
CR 4	3.45	70.39	71.98	67.13	291.0	(605.1)	63.71	(\$605.1)
CR 5	4.09	94.88	97.29	89.97	345.3	(849.1)	95.39	\$73.2
	-----				-----	-----		-----
GPIF System	45.38				3829.50	-3991.80		(\$517.9)

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
AN 1	9.13	9665.04	75.7	9315.8	10014.2	770.5	(770.5)	9616.68	\$0.0
AN 2	4.83	9784.46	72.8	9584.3	9984.6	407.4	(407.4)	9716.93	\$0.0
CR 1	4.43	10046.26	78.8	9841.6	10250.9	373.5	(373.5)	9960.6	\$30.6
CR 2	8.31	9939.79	92.0	9676.2	10203.4	701.1	(701.1)	9871.3	\$0.0
CR 3	11.41	10492.36	101.3	10324.5	10660.2	963.1	(963.1)	10452.3	\$0.0
CR 4	6.55	9367.82	87.9	9217.8	9517.8	552.6	(552.6)	9396.6	\$0.0
CR 5	9.96	9278.85	98.8	9128.8	9428.8	840.4	(840.4)	9329.2	\$0.0
	-----				-----	-----		-----	-----
GPIF System	54.62					4,608.6	(4,608.6)		\$30.6

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ACTUAL UNIT PERFORMANCE DATA

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996

PLANT/UNIT	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	EAF ADJUSTED ACTUAL %
-----	-----	-----	-----
CRYSTAL RIVER 1	88.15	-3.37	84.78
CRYSTAL RIVER 2	92.34	-0.00	92.34
CRYSTAL RIVER 3	49.73	11.62	61.36
CRYSTAL RIVER 4	66.81	-3.10	63.71
CRYSTAL RIVER 5	95.45	-0.06	95.39
ANCLOTE UNIT 1	94.46	0.39	94.85
ANCLOTE UNIT 2	94.87	-0.00	94.87
PLANT/UNIT	ACTUAL ANOH BTU/KWH	ADJUSTMENTS (2) TO ANOH BTU/KWH	ANOH ADJUSTED ACTUAL BTU/KWH
-----	-----	-----	-----
CRYSTAL RIVER 1	9913.6	47.0	9960.6
CRYSTAL RIVER 2	9890.1	-18.7	9871.3
CRYSTAL RIVER 3	10587.0	-134.7	10452.3
CRYSTAL RIVER 4	9442.6	-46.0	9396.6
CRYSTAL RIVER 5	9364.6	-35.4	9329.2
ANCLOTE UNIT 1	9921.3	-304.7	9616.7
ANCLOTE UNIT 2	9922.3	-205.35	9716.9

(1) For documentation of adjustments to actual EAF, see sheet 6.

(2) For documentation of adjustments to actual ANOH, see sheet 7.

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ADJUSTMENTS TO EAF ACTUAL

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996

EAF ADJUSTMENTS FOR PLANNED OUTAGE HOURS		AN1	AN2	CR1	CR2	CR3	CR4	CR5
		-----	-----	-----	-----	-----	-----	-----
7. ACTUAL POH	HRS.	18.20	0.00	0.00	0.00	1123.50	994.50	57.40
8. TARGET POH	HRS.	0.00	0.00	168.00	0.00	360.00	1152.00	0.00
9. ADJ. FACTOR (PH-POHT/PH-POHA)		1.00	1.00	0.96	1.00	1.23	0.95	1.01
10. ACTUAL EUOH *	HRS.	224.98	225.11	520.22	336.48	1083.66	663.08	199.66
11. ADJ. EUOH (3*4)	HRS.	225.92	225.11	500.31	336.48	1336.87	441.61	202.31
12. ACTUAL EAF *	%	94.46	94.87	88.15	92.34	49.73	66.81	95.45
13. ADJUSTED EAF (using 2 & 5)	%	94.85	94.87	84.78	92.34	61.36	63.71	95.39
14. DIFFERENCE	%	0.39	-0.00	-3.37	-0.00	11.62	-3.10	-0.06
15. TOTAL ADJ TO EAF (6 + 14)	%	0.39	-0.00	-3.37	-0.00	11.62	-3.10	-0.06

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

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 Order No.:

ADJUSTMENTS TO ANOHR ACTUAL

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996

	CR 1	CR 2	CR 3	CR 4	CR 5	AM 1	AM 2
	-----	-----	-----	-----	-----	-----	-----
ANOHR adj for Target NOF							
1. Target NOF %	78.8	92.0	101.3	87.9	98.8	75.7	72.8
2. Target ANOHR Btu/kwh	10046.3	9939.8	10491.9	9367.8	9278.8	9665.0	9784.5
3. Actual NOF %	82.8	82.6	93.3	80.4	90.1	55.8	56.0
4. Calc. ANOHR Btu/kwh (using 3)	9999.2	9958.5	10626.6	9413.8	9314.2	9969.7	9989.8
5. Total adj. Btu/kwh to ANOHR (2-4)	47.0	-18.7	-134.7	-46.0	-35.4	-304.7	-205.3

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 Effective:
 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 Unit: Anclote 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$201,100	97.90	10	\$770,500	9315.8
9	(\$133,994)	97.72	9	\$693,450	9343.3
8	(\$119,105)	97.53	8	\$616,400	9370.7
7	(\$104,217)	97.35	7	\$539,350	9398.1
6	(\$89,329)	97.16	6	\$462,300	9425.5
5	(\$74,441)	96.97	5	\$385,250	9452.9
4	(\$59,553)	96.79	4	\$308,200	9480.4
3	(\$44,665)	96.60	3	\$231,150	9507.8
2	(\$29,776)	96.42	2	\$154,100	9535.2
1	(\$14,888)	96.23	1	\$77,050	9562.6
0	\$0	96.05	0	\$0	9590.0
0	\$0	96.05	0.000	\$0	9616.7
0	\$0	96.05	0	\$0	9665.0
-1	(\$47,420)	95.67	0	\$0	9740.0
-2	(\$94,840)	95.29	-1	(\$70,110)	9767.5
-3	(\$142,260)	94.91	-2	(\$140,220)	9794.9
**** -3.140	(\$148,882)	94.86	-3	(\$210,330)	9822.3
-4	(\$189,680)	94.53	-4	(\$280,440)	9849.7
-5	(\$237,100)	94.15	-5	(\$350,550)	9877.1
-6	(\$284,520)	93.77	-6	(\$420,660)	9904.6
-7	(\$331,940)	93.39	-7	(\$490,770)	9932.0
-8	(\$379,360)	93.01	-8	(\$560,880)	9959.4
-9	(\$426,780)	92.63	-9	(\$630,990)	9986.8
-10	(\$474,200)	92.26	-10	(\$770,500)	10014.2

Equivalent Availability
 Weighting Factor:

 2.38%

Heat Rate
 Weighting Factor:

 9.13%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 Unit: Anclote 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$235,900	98.45	10	\$407,400	9584.3
9	\$212,310	98.31	9	\$366,660	9596.8
8	\$188,720	98.17	8	\$325,920	9609.3
7	\$165,130	98.03	7	\$285,180	9621.8
6	\$141,540	97.89	6	\$244,440	9634.4
5	\$117,950	97.75	5	\$203,700	9646.9
4	\$94,360	97.62	4	\$162,960	9659.4
3	\$70,770	97.48	3	\$122,220	9671.9
2	\$47,180	97.34	2	\$81,480	9684.4
1	\$23,590	97.20	1	\$40,740	9696.9
0	\$0	97.06	0	\$0	9709.5
	0.00	97.06	0.000	\$0	9716.9
	\$0	97.06	0	\$0	9784.5
-1	(\$48,420)	96.77	0	\$0	9859.5
-2	(\$96,840)	96.49	-1	(\$40,740)	9872.0
-3	(\$145,260)	96.20	-2	(\$81,480)	9884.5
-4	(\$193,680)	95.91	-3	(\$122,220)	9897.0
-5	(\$242,100)	95.63	-4	(\$162,960)	9909.5
-6	(\$290,520)	95.34	-5	(\$203,700)	9922.1
-7	(\$338,940)	95.05	-6	(\$244,440)	9934.6
**** -7.621	(\$368,989)	94.87	-7	(\$285,180)	9947.1
-8	(\$387,360)	94.77	-8	(\$325,920)	9959.6
-9	(\$435,780)	94.48	-9	(\$366,660)	9972.1
-10	(\$484,200)	94.19	-10	(\$407,400)	9984.6

Equivalent Availability
 Weighting Factor:

 2.80%

Heat Rate
 Weighting Factor:

 4.83%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 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	\$488,700	84.78	10	\$373,500	9841.6	
9	\$439,830	91.24	9	\$336,150	9854.6	
8	\$390,960	90.38	8	\$298,800	9867.6	
7	\$342,090	89.94	7	\$261,450	9880.5	
6	\$293,220	89.51	6	\$224,100	9893.5	
5	\$244,350	89.08	5	\$186,750	9906.5	
4	\$195,480	88.65	4	\$149,400	9919.4	
3	\$146,610	88.22	3	\$112,050	9932.4	
2	\$97,740	87.79	2	\$74,700	9945.3	
1	\$48,870	87.36	1	\$37,350	9958.3	
	\$0	86.93	0.821	\$30,646	9960.6	
0	\$0	86.93	0	\$0	9971.3	
	\$0	86.93	0	\$0	10046.3	
-1	(\$62,040)	86.07	0	\$0	10121.3	
-2	(\$124,080)	85.21	-1	(\$37,350)	10134.2	
****	-2.491	(\$121,731)	84.78	-2	(\$74,700)	10147.2
	-3	(\$186,120)	84.35	-3	(\$112,050)	10160.1
	-4	(\$248,160)	83.48	-4	(\$149,400)	10173.1
	-5	(\$310,200)	82.62	-5	(\$186,750)	10186.1
	-6	(\$372,240)	81.76	-6	(\$224,100)	10199.0
	-7	(\$434,280)	80.90	-7	(\$261,450)	10212.0
	-8	(\$496,320)	80.04	-8	(\$298,800)	10225.0
	-9	(\$558,360)	79.18	-9	(\$336,150)	10237.9
	-10	(\$620,400)	78.32	-10	(\$373,500)	10250.9

Equivalent Availability
 Weighting Factor:

 5.79%

Heat Rate
 Weighting Factor:

 4.43%

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 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 Unit: Crystal River 2

	Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
****	10.000	\$1,927,400	92.34	10	\$701,100	9676.2
	10	\$1,927,400	89.25	9	\$630,990	9695.0
	9	\$1,734,660	88.37	8	\$560,880	9713.9
	8	\$1,541,920	87.49	7	\$490,770	9732.8
	7	\$1,349,180	86.61	6	\$420,660	9751.6
	6	\$1,156,440	85.73	5	\$350,550	9770.5
	5	\$963,700	84.85	4	\$280,440	9789.3
	4	\$770,960	83.97	3	\$210,330	9808.2
	3	\$578,220	83.09	2	\$140,220	9827.1
	2	\$385,480	82.21	1	\$70,110	9845.9
	1	\$192,740	81.33	0	\$0	9864.8
		\$0	80.45	0.000	\$0	9871.3
	0	\$0	80.45	0	\$0	9939.8
		\$0	80.45	0	\$0	10014.8
	-1	\$19,660	78.85	-1	(\$70,110)	10033.7
	-2	\$39,320	77.24	-2	(\$140,220)	10052.5
	-3	\$58,980	75.64	-3	(\$210,330)	10071.4
	-4	\$78,640	74.03	-4	(\$280,440)	10090.2
	-5	\$98,300	72.42	-5	(\$350,550)	10109.1
	-6	\$117,960	70.82	-6	(\$420,660)	10128.0
	-7	\$137,620	69.21	-7	(\$490,770)	10146.8
	-8	\$157,280	67.61	-8	(\$560,880)	10165.7
	-9	\$176,940	66.00	-9	(\$630,990)	10184.5
	-10	(\$196,600)	64.39	-10	(\$701,100)	10203.4

Equivalent Availability
 Weighting Factor:

 22.84%

Heat Rate
 Weighting Factor:

 3.31%

Issued by: FPC

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 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 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	\$340,100	90.85	10	\$963,100	10324.5
9	\$306,090	90.77	9	\$866,790	10333.8
8	\$272,080	90.68	8	\$770,480	10343.1
7	\$238,070	90.59	7	\$674,170	10352.4
6	\$204,060	90.51	6	\$577,860	10361.7
5	\$170,050	90.42	5	\$481,550	10370.9
4	\$136,040	90.34	4	\$385,240	10380.2
3	\$102,030	90.25	3	\$288,930	10389.5
2	\$68,020	90.17	2	\$192,620	10398.8
1	\$34,010	90.08	1	\$96,310	10408.1
	\$0	90.00	0	\$0	10417.4
0	\$0	90.00	0.000	\$0	10426.8 ****
	\$0	90.00	0	\$0	10492.4
-1	(\$76,220)	89.82	0	\$0	10567.4
-2	(\$152,440)	89.64	-1	(\$96,310)	10576.6
-3	(\$228,660)	89.46	-2	(\$192,620)	10585.9
-4	(\$304,880)	89.28	-3	(\$288,930)	10595.2
-5	(\$381,100)	89.10	-4	(\$385,240)	10604.5
-6	(\$457,320)	88.92	-5	(\$481,550)	10613.8
-7	(\$533,540)	88.75	-6	(\$577,860)	10623.1
-8	(\$609,760)	88.57	-7	(\$674,170)	10632.3
-9	(\$685,980)	88.39	-8	(\$770,480)	10641.6
-10	(\$762,200)	88.21	-9	(\$866,790)	10650.9
**** -10.000	(\$762,200)	61.37	-10	(\$963,100)	10660.2

Equivalent Availability
 Weighting Factor:

 4.03%

Heat Rate
 Weighting Factor:

 11.41%

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 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 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	\$291,000	71.98	10	\$552,600	9217.8	
9	\$261,900	71.82	9	\$497,340	9225.3	
8	\$232,800	71.67	8	\$442,080	9232.8	
7	\$203,700	71.51	7	\$386,820	9240.3	
6	\$174,600	71.35	6	\$331,560	9247.8	
5	\$145,500	71.19	5	\$276,300	9255.3	
4	\$116,400	71.03	4	\$221,040	9262.8	
3	\$87,300	70.87	3	\$165,780	9270.3	
2	\$58,200	70.71	2	\$110,520	9277.8	
1	\$29,100	70.55	1	\$55,260	9285.3	
	\$0	70.39	0	\$0	9292.8	
0	\$0	70.39	0	\$0	9367.8	
	\$0	70.39	0.000	\$0	9396.6	

-1	(\$60,510)	70.07	0	\$0	9442.8	
-2	(\$121,020)	69.74	-1	(\$55,260)	9450.3	
-3	(\$181,530)	69.41	-2	(\$110,520)	9457.8	
-4	(\$242,040)	69.09	-3	(\$165,780)	9465.3	
-5	(\$302,550)	68.76	-4	(\$221,040)	9472.8	
-6	(\$363,060)	68.43	-5	(\$276,300)	9480.3	
-7	(\$423,570)	68.11	-6	(\$331,560)	9487.8	
-8	(\$484,080)	67.78	-7	(\$386,820)	9495.3	
-9	(\$544,590)	67.45	-8	(\$442,080)	9502.8	
-10	(\$605,100)	67.13	-9	(\$497,340)	9510.3	
****	-10.000	(\$605,100)	63.72	-10	(\$552,600)	9517.8

Equivalent Availability
 Weighting Factor:

 3.45%

Heat Rate
 Weighting Factor:

 6.55%

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 Effective:
 Docket No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: April, 1996 - September, 1996
 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	\$345,300	97.29	10	\$840,400	9128.8
9	\$310,770	97.05	9	\$756,360	9136.3
8	\$276,240	96.81	8	\$672,320	9143.8
7	\$241,710	96.57	7	\$588,280	9151.3
6	\$207,180	96.33	6	\$504,240	9158.8
5	\$172,650	96.09	5	\$420,200	9166.3
4	\$138,120	95.85	4	\$336,160	9173.8
3	\$103,590	95.61	3	\$252,120	9181.3
**** 2.121	\$73,244	95.39	2	\$168,080	9188.8
2	\$69,060	95.36	1	\$84,040	9196.3
1	\$34,530	95.12	0	\$0	9203.8
	\$0	94.88	0	\$0	9278.8
0	\$0	94.88	0.000	\$0	9329.2
	\$0	94.88	0	\$0	9353.8
	(\$84,910)	94.39	-1	(\$84,040)	9361.3
	(\$169,820)	93.90	-2	(\$168,080)	9368.8
	(\$254,730)	93.41	-3	(\$252,120)	9376.3
	(\$339,640)	92.92	-4	(\$336,160)	9383.8
	(\$424,550)	92.43	-5	(\$420,200)	9391.3
	(\$509,460)	91.94	-6	(\$504,240)	9398.8
	(\$594,370)	91.44	-7	(\$588,280)	9406.3
	(\$679,280)	90.95	-8	(\$672,320)	9413.8
	(\$764,190)	90.46	-9	(\$756,360)	9421.3
	(\$849,100)	89.97	-10	(\$840,400)	9428.8

Equivalent Availability
 Weighting Factor:

 4.09%

Heat Rate
 Weighting Factor:

 9.96%

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

ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

ANCLOTE 1	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Apr-Sep Period
1. EAF	97.63	96.17	89.43	91.60	92.45	99.61	94.46
2. PH	719	744	720	744	744	720	4391
3. SH	483.2	744.0	665.6	725.8	722.1	720.0	4060.7
4. RSH	230.1	0.0	0.0	0.0	0.0	0.0	230.1
5. UH	5.7	0.0	54.4	36.4	21.9	0.0	118.4
6. POH	0.0	0.0	0.0	18.2	0.0	0.0	18.2
7. FOH	0.0	0.0	54.4	7.9	3.4	0.0	65.7
8. MOH	5.7	0.0	0.0	10.3	18.5	0.0	34.5
9. PFOH	73.6	77.7	65.4	75.3	118.2	61.4	471.6
10. LR PF (MW)	78.5	187.6	169.7	177.3	148.2	23.5	135.2
11. PNOH	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	1277498	2093145	1820314	2225114	1957322	2107009	11480462
15. NET GEN (MWH)	130304	213232	184771	222137	194532	212168	1157144
16. ANOHR (BTU/KWH)	9804.0	9816.3	9851.7	10016.9	10061.7	9930.9	9921.3
17. MOF (X)	52.8	56.1	54.3	59.9	52.7	57.7	55.8
18. NPC (MW)	511.0	511.0	511.0	511.0	511.0	511.0	511

ANOHR EQUATION: ANOHR = -15.299 * MOF + 10822.8

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DOCKET NO.:
ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

ANCLOTE 2	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Apr-Sep Period
1. EAF	98.38	96.60	91.66	95.31	95.57	91.64	94.87
2. PH	719	744	720	744	744	720	4391
3. SH	719.0	744.0	692.4	744.0	744.0	677.6	4321.0
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	0.0	0.0	27.6	0.0	0.0	42.4	70.0
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	27.6	0.0	0.0	42.4	70.0
9. PFOH	96.4	125.9	89.9	169.0	227.4	133.5	842.1
10. LR PF (MW)	61.9	102.8	184.5	105.6	74.0	68.1	74.1
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)	511	511	511	511	511	511	511
14. OPER MBTU	1648720	2146527	2037232	2257272	2105078	2070494	12265323
15. NET GEN (MWH)	164304	221972	210389	227189	205605	206681	1236140
16. ANOHR (BTU/KWH)	10034.6	9670.3	9683.2	9935.7	10238.5	10017.8	9922.3
17. NOF (%)	44.7	58.4	59.5	59.8	54.1	59.7	56.0
18. NPC (MW)	511.0	511.0	511.0	511.0	511.0	511.0	511

ANOHR EQUATION: ANOHR = -12.233 * NOF + 10674.7

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DOCKET NO.:
ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 1	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Apr-Sep Period
1. EAF	65.22	86.10	94.35	91.91	94.67	96.36	88.15
2. PH	719	744	720	744	744	720	4391
3. SH	474.5	670.8	719.4	713.4	743.2	703.6	4024.9
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	244.5	73.2	0.6	30.6	0.8	16.4	366.1
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	0.0	50.8	0.6	30.6	0.8	0.0	82.8
8. MOH	244.5	22.4	0.0	0.0	0.0	16.4	283.3
9. PFOH	230.0	193.9	397.3	90.3	179.8	71.6	1162.9
10. LR PF (MW)	9.0	58.0	37.5	122.0	80.4	50.9	49.3
11. PNOH	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)	372	372	372	372	372	372	372
14. OPER MBTU	1358951	2154831	2236339	2172622	2200892	2173247	12296802
15. NET GEN (MWH)	138611	217940	225165	219234	220280	219178	1240408
16. ANOHR (BTU/KWH)	9804.1	9887.3	9932.0	9910.1	9991.3	9915.4	9913.6
17. NOF (%)	78.5	87.3	84.1	82.6	79.7	83.7	82.8
18. NPC (MW)	372	372	372	372	372	372	372

ANOHR EQUATION: ANOHR = -11.676 * NOF + 10966.5

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ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

CRYSTAL RIVER 2	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Apr-Sep Period
1. EAF	99.08	79.76	93.41	92.91	93.40	95.83	92.34
2. PH	719	744	720	744	744	720	4391
3. SH	715.2	612.2	707.7	744.0	744.0	718.7	4241.8
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	3.8	131.8	12.3	0.0	0.0	1.3	149.2
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	3.8	131.8	12.3	0.0	0.0	1.3	149.2
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	14.0	37.6	138.0	147.6	116.3	64.5	518.0
10. LR PF (MW)	93.6	234.0	119.1	167.2	197.5	208.6	169.2
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	2921974	2452805	2656871	2731245	2677980	2781153	16222028
15. NET GEN (MMB)	299786	248690	268347	275513	267825	280069	1640230
16. AMOHR (BTU/KWH)	9746.9	9862.9	9900.9	9913.3	9999.0	9930.2	9890.1
17. NOF (%)	89.6	86.8	81.0	79.1	76.9	83.3	82.6
18. NPC (MW)	468	468	468	468	468	468	468

AMOHR EQUATION: AMOHR = -1.994 * NOF + 10123.3

ISSUED BY: FLORIDA POWER CORPORATION

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ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 3	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Apr-Sep Period
1. EAF	0.00	31.10	72.70	99.96	86.98	5.30	49.73
2. PH	719	744	720	744	744	720	4391
3. SH	0.0	313.9	585.6	744.0	744.0	45.0	2432.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	719.0	430.1	134.4	0.0	0.0	675.0	1958.5
6. POH	719.0	404.5	0.0	0.0	0.0	0.0	1123.5
7. FOH	0.0	2.6	134.4	0.0	0.0	675.0	812.0
8. MOH	0.0	23.0	0.0	0.0	0.0	0.0	23.0
9. PFOH	0.0	371.9	210.7	16.8	290.0	16.1	905.5
10. LR PF (MW)	0.0	164.8	219.1	12.4	248.0	315.1	203.9
11. PPOH	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)	742.6	742.6	742.6	742.6	742.6	742.6	742.6
14. OPER MBTU	0	1956801	4243973	5828049	5439405	373387	17841615
15. NET GEN (MWH)	0	174501	397243	561944	521904	29641	1685232
16. ANOHR (BTU/KWH)	0.0	11213.7	10683.6	10371.2	10422.2	12597.2	10587.0
17. NOF (%)	0.0	74.9	91.3	101.7	94.5	88.7	93.3
18. NPC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6

ANOHR EQUATION: ANOHR = -16.827 * NOF + 12196.4

ISSUED BY: FLORIDA POWER CORPORATION

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ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

CRYSTAL RIVER 5	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Apr-Sep Period
1. EAF	98.44	98.12	81.23	98.63	97.49	98.53	95.45
2. PH	719	744	720	744	744	720	4391
3. SH	719.0	744.0	600.8	739.7	738.7	719.2	4261.4
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	0.0	0.0	119.2	4.3	5.3	0.8	129.6
6. POH	0.0	0.0	0.0	0.0	57.4	0.0	57.4
7. FOH	0.0	0.0	119.2	4.3	5.3	0.8	129.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	42.0	92.1	75.8	16.7	52.1	23.8	302.5
10. LR PF (MW)	156.0	105.6	146.3	244.7	178.9	285.7	161.4
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	4376362	4670288	3357276	4303323	4118183	4222973	25048405
15. NET GEN (MWH)	477950.1	498745.4	355177.6	457972.4	434462.0	450487.2	2674794.7
16. ANOHR (BTU/KWH)	9156.5	9364.1	9452.4	9396.5	9478.8	9374.2	9364.6
17. NOF (%)	95.4	96.2	84.8	88.8	84.4	89.9	90.1
18. NPC (MW)	697.0	697.0	697.0	697.0	697.0	697.0	697

ANOHR EQUATION: ANOHR = -4.066 * NOF + 9680.4

ISSUED BY: FLORIDA POWER CORPORATION

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

OUTAGE SCHEDULES
ACTUALS

Company : Florida Power Corporation
Period of : April 1996 - September 1996

<u>Plant/Unit</u>	<u>Actual Outage Dates Dates</u>	<u>Reason For Outage(1)</u>
Crystal River 1	04/13(0001) - 04/19(2400)	Inspection
Crystal River 3	02/16(0001) - 05/07(2400)	Refuel/LP Turb. Rtr. Repl.
Crystal River 4	04/20(0001) - 06/06(2400)	Boiler/Turbine/Generator

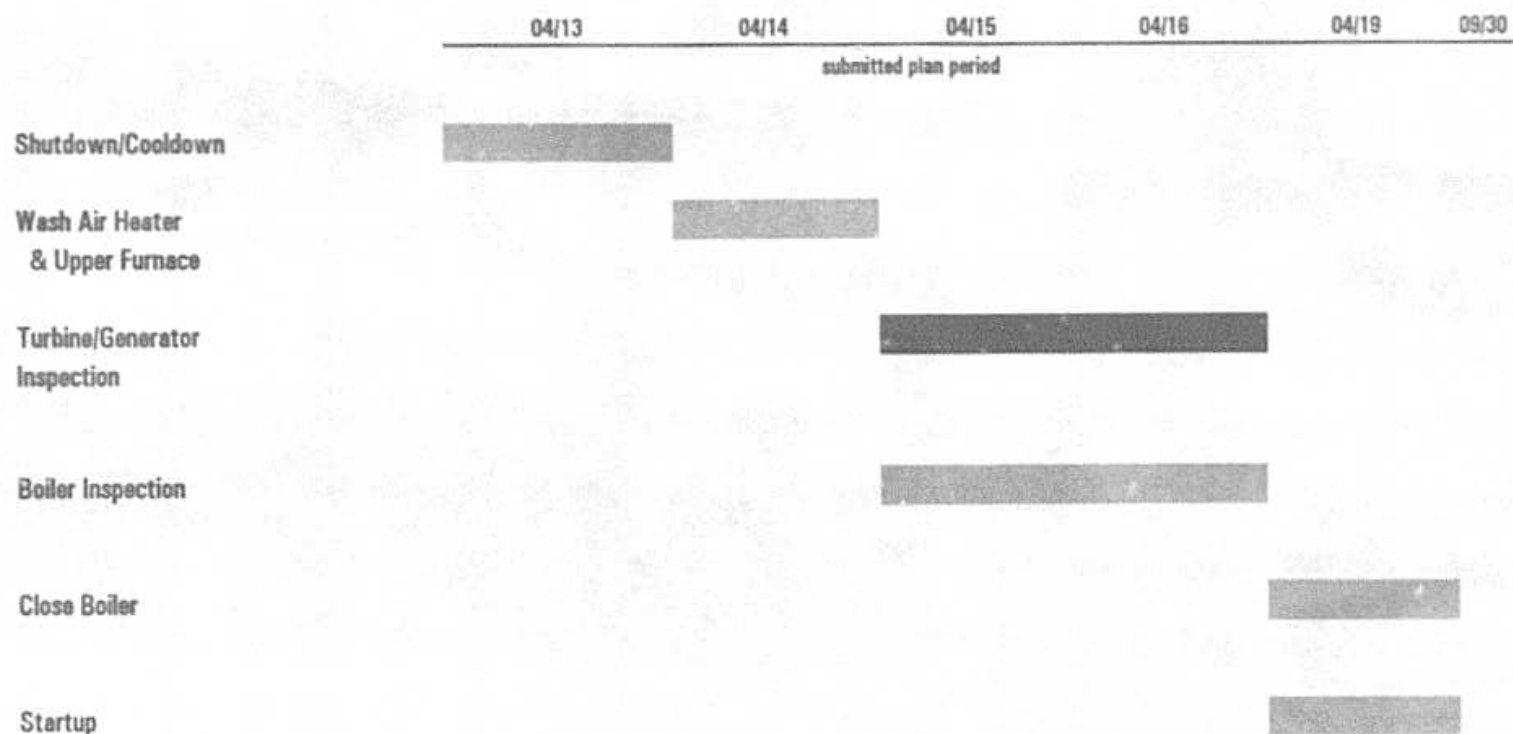
(1) To be accompanied by a critical path bar chart or milestone date chart of major activity to be performed during the outage.

ISSUED BY: FPC

FILED:
SUSPENDED:
EFFECTIVE:
DOCKET NO.:

**FLORIDA POWER CORPORATION
ASBUILT FOR CRYSTAL RIVER #1 1996 INSPECTION**

(indicating dates ending midnight)



23

 - (DENOTES CRITICAL PATH)

FLORIDA POWER CORPORATION

ASBUILT FOR CRYSTAL RIVER #3 1996 REFUEL 10

(indicating dates ending midnight)

02/16 02/17 02/20 02/25 03/09 03/12 03/15 03/18 03/21 03/24 03/27 | 04/05 04/08 04/13 04/18 04/23 04/28 05/07 09/30

submitted plan period

Shutdown/Cooldown



L/P Turbine Rotor
Changeouts



Plant Start Up



OTSG Eddy Current/
Waterslap Window



Refueling Activities



A-ECCS Window



B-ECCS Outage



Outage SP's



24

- (DENOTES CRITICAL PATH)

GP196CR3.XLS

FLORIDA POWER CORPORATION

ASBUILT FOR CRYSTAL RIVER #4 1996 BOILER/TURBINE

(indicating dates ending midnight)

04/20 04/22 04/23 04/24 04/30 05/01 05/07 05/14 05/21 05/28 05/31 06/02 06/04 06/05 06/06 06/07 06/08 06/09 6/30 7/30 8/30 9/30

submitted plan period

Shutdown/Cooldown



Wash Air Heater
& Upper Furnace



Turbine/Generator
Inspection & Repairs



Boiler Inspection
and Repairs



Close Boiler



Startup



Cooling Tower Inspection



Coal Mill Inspection
& Repair



Clean Circulating
Pits & Pipes



- (DENOTES CRITICAL PATH)

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