

05510-93-05579-93



**Florida
Power
CORPORATION**

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET NO. [REDACTED]

**GPIF REWARD/PENALTY AMOUNT
OCTOBER 1992 THROUGH MARCH 1993**

**DIRECT TESTIMONY
AND EXHIBITS OF
WILLIAM C. MICKLON**

For Filing May 21, 1993

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FPSC-RECORDS/REPORTING

FLORIDA POWER CORPORATION

DOCKET No. 930001-EI

**GPIF REWARD/PENALTY AMOUNT FOR
OCTOBER 1992 THROUGH MARCH 1993**

**DIRECT TESTIMONY OF
WILLIAM C. MICKLON**

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

2 **A. My name is William C. Micklon. My business address is P. O. Box**
3 **14042, 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 Manager of Plant**
7 **Performance.**

8

9 **Q. Have the duties and responsibilities of your position with the Company**
10 **remained the same since you last testified in this proceeding?**

11 **A. Yes, they have.**

12

13 **Q. What is the purpose of your testimony?**

14 **A. The purpose of my testimony is to describe the calculation of the**
15 **Company's Generation Performance Incentive Factor (GPIF) amount for**
16 **the period of October 1992 through March 1993. This was developed**

1 by comparing the actual performance of the Company's seven 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. My exhibit (WCM-1), consisting of the numbered sheets attached**
7 **to my prepared testimony, contains the schedules required by the GPIF**
8 **Implementation Manual to support the development of the incentive**
9 **amount, as well as other data forms which I have included to**
10 **supplement the required schedules.**

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

13 **A. I have calculated the Company's GPIF incentive amount to be a reward**
14 **of \$1,230,140. This amount was developed in a manner consistent**
15 **with the GPIF Implementation Manual. Sheet 1 of my exhibit shows the**
16 **calculation of system GPIF points and the corresponding reward. The**
17 **summary of weighted incentive points earned by each individual unit**
18 **can be found on Sheet 3.**

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

22 **A. The calculation of incentive points is made by comparing the adjusted**
23 **actual performance data for equivalent availability and heat rate to the**

1 target performance indicators for each unit. This comparison is shown
2 on the Generating Performance Incentive Points Table found in my
3 exhibit Sheets 8 through 14.
4

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

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

19
20 **Q. Have you provided the as-worked planned outage schedules for the**
21 **Company's GPIF units to support your adjustments to actual equivalent**
22 **availability?**

1 **A. Yes, Sheet 22 of my exhibit shows a comparison of target and actual**
2 **planned outage hours in bar-chart form. Sheets 23 through 27 present**
3 **as-worked critical path charts for each unit which experienced a planned**
4 **outage during the period.**

5
6 **Q. Were any adjustments made to actual performance data because of the**
7 **so-called "storm of the century" in March 1993?**

8 **A. Yes. In accordance with Section 4.31 of the GFIF Implementation**
9 **Manual, forced outage hours caused by the March 1993 storm have**
10 **been removed. The following forced outage hours were removed from**
11 **actual performance data: Anclote No. 1 = 16.3 hours, Crystal River**
12 **No. 2 = 108.8 hours, Crystal River No. 4 = 19.9 hours, and Crystal**
13 **River No. 5 = 35.9 hours.**

14
15 **Q. Were any adjustments made to actual performance data because of the**
16 **impact of EPA mandated flow reduction for Crystal River 1 and 2?**

17 **A. Yes. An adjustment was made to the Crystal River No. 1 actual heat**
18 **rate data by removing the amount of fuel equivalent to the condenser**
19 **back pressure penalty imposed by flow reductions. The methodology**
20 **used to calculate the back pressure penalty is described in the Winter**
21 **'92/'93 target filing. The removal of the flow reduction impact placed**
22 **Crystal River net performance in the dead band range where neither a**
23 **reward nor a penalty is earned.**

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

2 **A. Yes.**

PERFORMANCE INCENTIVE SCHEDULE

Exhibit No.	Page
• Performance Incentive Table (Actual)	1
• Calculation of Maximum Incentive Dollars (Actual)	2
• Calculation of System Actual GPF Points	3
• GPF Unit Performance Summary	4
• Actual Unit Performance Data	5
• Adjustments to EAF Actual	6
• Adjustments to ANOPR Actual	7
• Generating Performance Incentive Points Table	8-14
• Actual Unit Performance Data	15-21
• Planned Outage Schedules (Actual)	22-27

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993

Generating Performance Incentive Points (GPIF)	Fuel Saving/Loss (\$)	Generating Performance Incentive Factor (\$)
-----	-----	-----
10	99,886,980	\$2,813,678
9	98,853,237	\$2,532,310
8	97,820,544	\$2,250,943
7	96,885,851	\$1,969,575
6	95,952,198	\$1,688,207
5	94,918,445	\$1,406,839
**** 4.372	94,389,786	\$1,238,140
4	93,934,772	\$1,125,471
3	92,951,079	\$844,183
2	91,967,386	\$562,736
1	9093,693	\$281,368
0	90	90
-1	91,389,980	(\$281,368)
-2	92,761,840	(\$562,736)
-3	94,142,760	(\$844,183)
-4	95,523,680	(\$1,125,471)
-5	96,904,600	(\$1,406,839)
-6	98,285,520	(\$1,688,207)
-7	99,666,440	(\$1,969,575)
-8	911,047,360	(\$2,250,943)
-9	912,428,280	(\$2,532,310)
-10	913,809,200	(\$2,813,678)

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**GENERATION PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS**

**COMPANY: FLORIDA POWER CORPORATION
FOR THE PERIOD OF:
OCTOBER 1992 - MARCH 1993**

1	BEGINNING OF PERIOD BALANCE OF COMMON EQUITY	\$1,424,300,000
2	END OF MONTH BALANCE OF COMMON EQUITY: MONTH OF OCTOBER 1992	\$1,435,905,206
3	MONTH OF NOVEMBER 1992	\$1,464,405,375
4	MONTH OF DECEMBER 1992	\$1,444,000,100
5	MONTH OF JANUARY 1993	\$1,471,425,570
6	MONTH OF FEBRUARY 1993	\$1,482,900,700
7	MONTH OF MARCH 1993	\$1,480,049,570
8	AVERAGE COMMON EQUITY FOR THE PERIOD (AGGREGATION OF LINE 1 THROUGH LINE 7 DIVIDED BY 7)	\$1,457,049,125
9	25 BASIS POINTS	0.0025
10	REVERSE EXPANSION FACTOR	62.3100%
11	MAXIMUM ALLOWED INCENTIVE DOLLARS (LINE 8 TIMES LINE 9 DIVIDED BY LINE 10 TIMES 0.5)	\$2,904,214
12	JURISDICTIONAL SALES	11,921,704 MM
13	TOTAL SALES	12,309,046 MM
14	JURISDICTIONAL SEPARATION FACTOR (LINE 12 DIVIDED BY LINE 13)	96.22%
15	MAXIMUM ALLOWED JURISDICTIONAL INCENTIVE DOLLARS (LINE 11 TIMES LINE 14)	\$2,813,670

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CALCULATION OF SYSTEM ACTUAL OPIF POINTS

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993

Plant/Unit	Performance Indicator OPIF or AEMR	Weighting Factor %	Unit Points	Weighted Unit Points
Crystal River 1	OPIF	5.87	1.257	0.100
	AEMR	3.91	0.000	0.000
Crystal River 2	OPIF	0.25	-5.250	-0.425
	AEMR	4.37	0.000	0.000
Crystal River 3	OPIF	37.25	10.000	3.725
	AEMR	8.90	0.000	0.000
Crystal River 4	OPIF	2.28	9.970	0.227
	AEMR	8.00	0.000	0.000
Crystal River 5	OPIF	1.25	-10.000	-0.125
	AEMR	5.54	0.000	0.000
Aniote 1	OPIF	2.56	10.000	0.256
	AEMR	5.05	0.00	0.000
Aniote 2	OPIF	2.14	10.000	0.214
	AEMR	4.36	9.100	0.400
OPIF System		100.00		4.372

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OPIF UNIT PERFORMANCE SUMMARY

Company: Florida Power Corporation
 Period of: October, 1982 - March, 1983

Plant/Unit	Weighting Factor (%)	BPF Target (%)	BPF RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	BPF Adjusted Actual (%)	Estimated Fuel Savings/ Loss (\$000)
			Max. (%)	Min. (%)				
CR 1	5.87	78.30	77.98	61.27	1981.7	(2,947.0)	73.34	884.9
CR 2	8.25	69.99	76.51	56.21	3154.7	(3,085.6)	62.95	(91,612.2)
CR 3	37.25	89.04	89.08	65.29	7877.3	(13,569.3)	97.10	97,877.3
CR 4	2.88	98.94	95.39	89.99	1248.9	(2,627.0)	95.29	91,245.2
CR 5	1.25	61.54	62.85	58.87	1176.1	(2,485.2)	57.72	(92,485.2)
AN 1	2.94	95.35	97.54	98.86	1889.3	(2,361.2)	97.88	91,889.3
AN 2	2.14	82.72	85.42	77.18	1884.8	(1,784.7)	86.73	91,884.8
-----	-----	-----	-----	-----	-----	-----	-----	-----
OPIF System	54.88				17484.8	(28,578.0)		97,478.1

Plant/Unit	Weighting Factor (%)	ANRR Target (Btu/lb)	ANRR RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	ANRR Adjusted Actual (Btu/lb)	Estimated Fuel Savings/ Loss	
			Max. (Btu/lb)	Min. (Btu/lb)					
CR 1	3.51	9937.99	85.1	9788.1	10107.9	509.8	(509.8)	10010.8	98.0
CR 2	4.37	9925.54	76.0	9779.0	10148.1	484.1	(484.1)	9982.8	98.0
CR 3	8.90	10239.97	100.6	10204.0	10204.0	1021.8	(1,021.8)	10489.3	98.0
CR 4	8.69	9838.47	99.4	9185.5	9485.5	682.9	(682.9)	9229.7	98.0
CR 5	5.54	9821.43	96.2	9171.4	9471.4	672.2	(672.2)	9848.8	98.0
AN 1	5.85	10111.34	44.9	9796.2	10426.4	578.7	(578.7)	10157.32	98.0
AN 2	4.36	9970.96	41.4	9719.9	10222.0	538.7	(538.7)	9724.48	9486.6
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OPIF System	31.01					4410.2	(4,410.2)		9486.6

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ACTUAL UNIT PERFORMANCE DATA

Company: Florida Power Corporation
 Period of: October, 1982 - March, 1983

PLANT/UNIT	ACTUAL BAF %	ADJUSTMENTS (1) TO BAF %	BAF ADJUSTED ACTUAL %
-----	-----	-----	-----
CRYSTAL RIVER 1	70.92	2.42	73.34
CRYSTAL RIVER 2	68.36	2.19	62.95
CRYSTAL RIVER 3	82.21	14.89	97.10
CRYSTAL RIVER 4	97.96	-2.67	95.29
CRYSTAL RIVER 5	57.67	0.86	57.72
ANECOTE UNIT 1	97.87	0.01	97.88
ANECOTE UNIT 2	86.88	0.74	86.73

PLANT/UNIT	ACTUAL ANCR \$TU/HR	ADJUSTMENTS (2) TO ANCR \$TU/HR	ANCR ADJUSTED ACTUAL \$TU/HR
-----	-----	-----	-----
CRYSTAL RIVER 1	10023.2	-12.3	10010.9
CRYSTAL RIVER 2	10085.2	-22.4	9982.8
CRYSTAL RIVER 3	10422.0	-21.7	10400.3
CRYSTAL RIVER 4	9882.2	-32.5	9829.7
CRYSTAL RIVER 5	9849.3	-0.4	9848.9
ANECOTE UNIT 1	9966.1	191.2	10157.3
ANECOTE UNIT 2	9791.0	33.46	9734.5

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

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993

BAF ADJUSTMENTS FOR PLANNED OUTAGE HOURS		CR1	CR2	CR3	CR4	CR5	AM1	AM2
		-----	-----	-----	-----	-----	-----	-----
7. ACTUAL POH	MRS.	795.00	743.20	670.00	0.00	1953.40	0.00	536.00
8. TARGET POH	MRS.	672.00	672.00	0.00	120.00	1961.00	0.00	904.00
9. ADJ. FACTOR		1.00	1.00	1.10	0.97	1.00	1.00	1.01
(PW-POH/PW-PORA)								
10. ACTUAL BUSH *	MRS.	476.50	945.57	107.40	88.02	206.00	92.64	74.95
11. ADJ. BUSH (3%)	MRS.	492.75	964.14	126.86	85.60	206.04	92.64	75.90
12. ACTUAL BAF *	%	70.92	60.36	82.21	97.96	57.67	97.87	86.00
13. ADJUSTED BAF	%							
(using 2 & 5)								
14. DIFFERENCE	%	2.42	2.19	14.89	-2.67	0.06	0.01	0.74
15. TOTAL ADJ TO BAF (6 + 14)	%	2.42	2.19	14.89	-2.67	0.06	0.01	0.74

* Actual BUSH and actual BAF are the adjusted values in Nos. 3 and 5 above.

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ADJUSTMENTS TO ANSR ACTUAL

Company: Florida Power Corporation
Period of: October, 1992 - March, 1993

	CR 1	CR 2	CR 3	CR 4	CR 5	AM 1	AM 2
	-----	-----	-----	-----	-----	-----	-----
ANSR adj for Target MSF							
1. Target MSF %	85.1	75.0	100.6	99.4	96.2	46.9	41.4
2. Target ANSR Stu/mb	9988.0	9963.5	10334.0	9835.5	9821.4	10111.4	9970.0
3. Actual MSF %	81.8	72.9	99.3	87.9	82.3	53.3	52.2
4. Calc. ANSR Stu/mb (using 3)	9980.3	9986.0	10305.7	9880.0	9821.9	9980.1	9987.5
5. Total adj. Stu/mb to ANSR (2-4)	-12.3	-22.4	-21.7	-32.5	-0.4	191.2	33.5

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993
 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	\$1,051,700	75.34	10	\$509,000	9768.1
9	\$1,720,500	77.08	9	\$458,000	9777.6
8	\$1,345,300	77.61	8	\$427,040	9787.1
7	\$1,332,100	76.84	7	\$354,000	9795.6
6	\$1,139,000	76.28	6	\$305,000	9804.1
5	\$925,000	75.71	5	\$254,000	9815.5
4	\$770,000	75.14	4	\$205,000	9825.0
3	\$579,510	74.57	3	\$152,040	9834.5
2	\$326,340	74.00	2	\$101,040	9844.0
1.007	\$24,000	72.87	1	\$50,000	9853.5
1	\$100,170	73.43	0	\$0	9863.0
	\$0	72.30	0	\$0	9880.0
0	\$0	72.30	0.000	\$0	10010.0
	\$0	72.30	0	\$0	10013.0
-1	(\$254,700)	71.19	-1	(\$50,000)	10022.5
-2	(\$309,400)	70.09	-2	(\$101,040)	10032.0
-3	(\$374,100)	68.99	-3	(\$152,040)	10041.5
-4	(\$1,010,000)	67.88	-4	(\$205,000)	10050.9
-5	(\$1,273,500)	66.78	-5	(\$254,000)	10060.4
-6	(\$1,528,200)	65.68	-6	(\$305,000)	10069.9
-7	(\$1,782,900)	64.57	-7	(\$354,000)	10079.4
-8	(\$2,037,600)	63.47	-8	(\$407,040)	10088.9
-9	(\$2,292,300)	62.37	-9	(\$458,000)	10098.4
-10	(\$2,547,000)	61.27	-10	(\$509,000)	10107.9

Equivalent Availability
 Weighting Factor:

 5.07%

Heat Rate
 Weighting Factor:

 3.51%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993
 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	02,154,700	76.51	10	0404,100	9779.0
9	02,039,200	75.82	9	0444,600	9789.9
8	02,323,700	75.13	8	0395,200	9800.9
7	02,208,200	74.44	7	0345,670	9811.9
6	01,892,800	73.76	6	0306,460	9822.8
5	01,577,300	73.08	5	0267,050	9833.8
4	01,261,800	72.36	4	0197,640	9844.7
3	0046,410	71.67	3	0148,230	9855.7
2	0000,000	70.97	2	000,000	9866.6
1	0013,470	70.28	1	049,410	9877.6
0	00	69.59	0	00	9888.5
0	00	69.59	0.000	00	9888.5
0	00	69.59	0	00	9888.5
-1	(0006,560)	68.25	0	00	10000.5
-2	(0013,120)	66.91	-1	(049,410)	10049.5
-3	(0019,680)	65.57	-2	(000,000)	10060.4
-4	(01,206,240)	64.24	-3	(0148,230)	10071.4
-5	(01,332,800)	62.90	-4	(0197,640)	10082.4
-5.250	(01,612,170)	62.56	-5	(0247,050)	10093.3
-6	(01,889,360)	61.24	-6	(0306,460)	10104.3
-7	(02,145,920)	60.22	-7	(0345,670)	10115.2
-8	(02,402,480)	59.20	-8	(0395,200)	10126.2
-9	(02,739,040)	57.54	-9	(0444,600)	10137.1
-10	(03,065,600)	56.21	-10	(0494,100)	10148.1

Equivalent Availability
 Weighting Factor:

 8.23%

Heat Rate
 Weighting Factor:

 4.57%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993
 Unit: Crystal River 3

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (E)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/WH)
10.000	27,877,300	97.10	10	21,021,000	10204.0
9	27,877,300	99.00	9	2019,600	10291.5
8	27,000,570	98.18	8	2017,440	10390.0
7	26,301,040	97.27	7	2715,200	10406.5
6	25,514,110	96.37	6	2613,000	10414.0
5	24,726,300	95.47	5	2510,900	10421.5
4	23,938,600	94.56	4	2408,700	10429.0
3	23,150,900	93.66	3	2306,540	10436.5
2	22,363,100	92.75	2	2204,360	10444.0
1	21,575,400	91.85	1	2102,180	10451.5
0	20,787,700	90.95	0	2000	10459.0
0	20,000	90.04	0.000	20	10466.5
0	20,000	90.04	0	20	10474.0
-1	(21,204,000)	78.37	-1	(2102,180)	10481.5
-2	(22,413,000)	76.69	-2	(2204,360)	10489.0
-3	(23,627,000)	75.02	-3	(2306,540)	10496.5
-4	(24,847,000)	73.34	-4	(2408,720)	10504.0
-5	(26,076,000)	71.67	-5	(2510,900)	10511.5
-6	(27,311,000)	69.99	-6	(2613,080)	10519.0
-7	(28,555,000)	68.32	-7	(2715,260)	10526.5
-8	(29,800,000)	66.64	-8	(2817,440)	10534.0
-9	(31,050,000)	64.97	-9	(2919,620)	10541.5
-10	(32,300,000)	63.29	-10	(3021,800)	10549.0

Equivalent Availability
 Weighting Factor:

 37.25%

Heat Rate
 Weighting Factor:

 6.90%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993
 Unit: Crystal River 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/1000)
10	\$1,248,900	95.30	10	\$482,900	9105.5
9.970	\$1,245,164	95.29	9	\$542,610	9113.0
9	\$1,124,010	95.13	8	\$482,320	9120.5
8	\$999,120	94.95	7	\$422,020	9128.0
7	\$874,230	94.78	6	\$361,740	9135.5
6	\$749,340	94.60	5	\$301,450	9143.0
5	\$624,450	94.43	4	\$241,160	9150.5
4	\$500,560	94.26	3	\$180,870	9158.0
3	\$374,670	94.08	2	\$120,580	9165.5
2	\$249,780	93.91	1	\$60,290	9173.0
1	\$124,890	93.73	0	\$0	9180.5
	\$0	93.56	0.000	\$0	9229.7
0	\$0	93.56	0	\$0	9235.5
	\$0	93.56	0	\$0	9238.5
-1	(\$262,700)	93.20	-1	(\$40,200)	9238.0
-2	(\$525,400)	92.85	-2	(\$120,500)	9245.5
-3	(\$788,100)	92.49	-3	(\$180,870)	9253.0
-4	(\$1,050,800)	92.13	-4	(\$241,160)	9260.5
-5	(\$1,313,500)	91.77	-5	(\$301,450)	9268.0
-6	(\$1,576,200)	91.42	-6	(\$361,740)	9275.5
-7	(\$1,838,900)	91.06	-7	(\$422,020)	9283.0
-8	(\$2,101,600)	90.70	-8	(\$482,320)	9290.5
-9	(\$2,364,300)	90.34	-9	(\$542,610)	9298.0
-10	(\$2,627,000)	89.99	-10	(\$602,900)	9305.5

Equivalent Availability
 Weighting Factor:

 2.25%

Heat Rate
 Weighting Factor:

 8.60%

Issued by: FPC

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

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: October, 1992 - March, 1993
 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	\$1,176,100	62.85	10	\$672,200	9171.4
9	\$1,020,400	62.70	9	\$604,000	9178.9
8	\$840,000	62.57	8	\$537,700	9185.4
7	\$680,300	62.44	7	\$470,540	9192.9
6	\$520,600	62.31	6	\$403,380	9201.4
5	\$360,900	62.18	5	\$336,100	9208.9
4	\$200,440	62.05	4	\$268,800	9216.4
3	\$40,000	61.92	3	\$201,640	9223.9
2	(\$160,200)	61.79	2	\$134,440	9231.4
1	(\$317,610)	61.67	1	\$67,220	9238.9
0	0	61.54	0.000	0	9245.8
0	0	61.54	0	0	9246.4
0	0	61.54	0	0	9251.4
-1	(\$140,300)	61.27	0	0	9256.4
-2	(\$280,640)	61.00	-1	(\$67,200)	9405.9
-3	(\$420,980)	60.74	-2	(\$134,440)	9411.4
-4	(\$560,320)	60.47	-3	(\$201,680)	9418.9
-5	(\$700,660)	60.21	-4	(\$268,920)	9426.4
-6	(\$840,900)	59.94	-5	(\$336,160)	9433.9
-7	(\$980,240)	59.67	-6	(\$403,400)	9441.4
-8	(\$1,120,580)	59.41	-7	(\$470,640)	9448.9
-9	(\$1,260,920)	59.14	-8	(\$537,880)	9456.4
-10	(\$1,400,260)	58.87	-9	(\$604,120)	9463.9
----	(\$1,540,600)	57.72	-10	(\$672,360)	9471.4

Equivalent Availability
 Weighting Factor:

 1.25%

Heat Rate
 Weighting Factor:

 5.54%

Issued by: FPC

Filed:
 Suspended:
 Effective:
 Booklet No.:
 Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
 Period of: October, 1982 - March, 1983
 Unit: Anacostia 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (X)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10.000	\$1,004,000	85.42	10	\$530,700	9719.9
10	\$1,004,000	85.42	9.140	\$485,300	9724.5
9	\$885,100	85.15	9	\$477,600	9737.5
8	\$825,440	84.88	8	\$434,540	9755.1
7	\$764,700	84.61	7	\$371,400	9772.7
6	\$694,000	84.34	6	\$318,430	9790.3
5	\$625,400	84.07	5	\$265,300	9807.9
4	\$482,700	83.80	4	\$212,200	9825.5
3	\$322,040	83.53	3	\$159,210	9843.1
2	\$201,300	83.26	2	\$105,140	9860.7
1	\$100,000	82.99	1	\$53,070	9878.3
0	\$0	82.72	0	\$0	9895.9
0	\$0	82.72	0	\$0	9913.5
0	\$0	82.72	0	\$0	10044.0
-1	(\$172,470)	82.45	-1	(\$85,070)	10061.6
-2	(\$344,940)	81.41	-2	(\$165,140)	10081.2
-3	(\$517,410)	81.25	-3	(\$239,210)	10100.8
-4	(\$689,880)	80.50	-4	(\$312,280)	10114.4
-5	(\$862,350)	79.95	-5	(\$385,350)	10134.0
-6	(\$1,034,820)	79.39	-6	(\$458,420)	10151.6
-7	(\$1,207,290)	78.84	-7	(\$531,490)	10169.2
-8	(\$1,379,760)	78.29	-8	(\$604,560)	10186.8
-9	(\$1,552,230)	77.73	-9	(\$677,630)	10204.4
-10	(\$1,724,700)	77.18	-10	(\$750,700)	10222.0

Equivalent Availability
 Weighting Factor:

 2.145

Heat Rate
 Weighting Factor:

 4.345

Issued by: FPC

Filed:
 Suspended:
 Effective:
 Expiry No.:
 Order No.:

ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

GENERAL RIVER 1	Oct-92	Nov-92	Dec-92	Jan-93	Feb-93	Mar-93	Oct-Mar Period
1. BAF	69.92	84.16	97.23	95.63	89.39	0.00	70.92
2. FB	745	729	744	744	672	744	4309
3. SB	241.8	692.1	742.6	744.0	694.8	0.0	3085.3
4. SB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. SB	235.2	27.9	1.4	0.0	67.2	744.0	1043.7
6. FB	0.0	0.0	0.0	0.0	49.8	744.0	793.8
7. FB	142.3	27.9	1.4	0.0	17.4	0.0	189.0
8. SB	69.9	0.0	0.0	0.0	0.0	0.0	69.9
9. FB	235.0	676.3	102.6	374.2	19.0	0.0	1875.1
10. LB FB (RM)	104.1	47.4	62.4	29.4	79.7	0.0	61.3
11. FB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LB FB (RM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. SB (RM)	372	372	372	372	372	372	372
14. OPER HOURS	132802	221484	227139	231793	182618	0	1014127
15. NET GEN (MWH)	120189	221736	231906	229889	179015	0	1011845
16. ANGR (MVA/HR)	10229.1	9925.0	9794.2	10116.4	10229.4	0.0	10225.2
17. DEF (K)	74.5	86.1	85.9	82.8	79.6	0.0	61.8
18. SFC (RM)	372	372	372	372	372	372	372

ANGR EQUATION: ANGR = -9.484 * DEF + 10726.1

ISSUED BY: FLORIDA POWER CORPORATION

FILED:
SUSPENDED:
EFFECTIVE:
SECRET NO.:
ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

CRYSTAL RIVER 2	Oct-92	Nov-92	Dec-92	Jan-93	Feb-93	Mar-93	Oct-Mar Period
1. CAP	0.25	15.51	16.22	73.99	90.05	92.22	60.26
2. PU	745	720	744	744	672	635.2	4200
3. MW	1.0	112.0	744.0	744.0	672.0	635.2	2000.0
4. MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. MW	743.2	607.2	0.0	0.0	0.0	0.0	1350.4
6. FWH	743.2	0.0	0.0	0.0	0.0	0.0	743.2
7. FWH	0.0	607.2	0.0	0.0	0.0	0.0	607.2
8. MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. FWH	1.0	2.2	429.0	406.6	145.5	135.6	1201.5
10. LR PF (MW)	14.0	234.0	20.6	100.0	215.5	157.4	101.0
11. FWH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PU (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. MFC (MW)	400	400	400	400	400	400	400
14. OPER NETU	1011	20705	2001340	2000425	2000445	2470041	9900919
15. NET GEN (MW)	96	30001	2000573	2000025	2000413	2470046	9900974
16. ANGR (DPA/HR)	10000.6	10017.1	9070.8	10199.8	9905.8	9992.7	10005.2
17. MFP (%)	11.4	66.1	81.4	28.0	71.4	83.4	72.9
18. MFC (MW)	400	400	400	400	400	400	400

ANGR DEFINITION: ANGR = $-7.101 \times \text{MFP} + 10000.5$

ISSUED BY: FLORIDA POWER CORPORATION

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

ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

CRYSTAL RIVER 3	Oct-62	Nov-62	Dec-62	Jan-63	Feb-63	Mar-63	Oct-Mar Period
1. BAF	93.16	93.41	91.26	99.92	98.49	9.89	82.21
2. FB	746	739	746	746	672	746	4309
3. SN	745.0	739.0	691.1	744.0	672.0	74.0	3886.1
4. SBN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UN	0.0	0.0	62.9	0.0	0.0	670.0	732.9
6. FBN	0.0	0.0	0.0	0.0	0.0	670.0	670.0
7. FBN	0.0	0.0	62.9	0.0	0.0	0.0	62.9
8. SBN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. FBN	102.3	75.3	29.3	10.3	117.0	64.0	408.2
10. LR FF (GRD)	99.4	112.9	57.0	43.4	64.2	64.2	81.3
11. FBN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR FB (GRD)	0.0	0.0	0.0	0.0	0.0	64.2	64.2
13. SBC (GRD)	742.6	742.6	742.6	742.6	742.6	742.6	742.6
14. OPER COST	5717737	5222248	5230191	5770157	5157930	400947	27947230
15. NET GEN (GRD)	346611	522246	507314	534823	400739	46184	2891363
16. ANGR (SVC/GRD)	10400.4	10399.0	10427.8	10398.9	10404.8	10339.2	10422.0
17. NCF (K)	98.8	99.3	100.3	100.4	99.3	84.0	99.3
18. NCF (GRD)	742.6	742.6	742.6	742.6	742.6	742.6	742.6

ANGR EQUATION: ANGR = -16.339 * NCF + 11978.3

ISSUED BY: FLORIDA POWER CORPORATION

FILED:
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EFFECTIVE:
SECRET NO.:
ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA
 FLORIDA POWER CORPORATION

GENERAL RIVER 4	Oct-92	Nov-92	Dec-92	Jan-93	Feb-93	Mar-93	Oct-Mar Period
1. BAF	97.95	98.16	99.32	97.89	98.06	98.15	97.96
2. FB	745	739	744	744	672	688.2	4313
3. SB	739.3	739.3	744.0	744.0	672.0	688.2	4307.0
4. SSB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UB	9.7	10.5	0.0	0.0	0.0	0.0	16.2
6. FUB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. PUB	9.7	10.5	0.0	0.0	0.0	0.0	16.2
8. SUB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PUBS	40.2	103.4	25.5	26.0	38.0	117.8	442.9
10. LB FT CRD	105.6	64.6	97.9	105.9	239.4	75.2	108.1
11. FUBS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LB FB CRD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. SBC CRD	697	697	697	697	697	697	697
14. OPER COST	4492411	4322514	4029228	3918770	3991934	4108447	24376264
15. NET GEN (MW)	487706	466888	434610	418884	396895	448344	2631887
16. ANGR (MVA/HR)	9239.2	9231.1	9234.2	9235.4	9239.2	9227.9	9262.2
17. EFF (%)	94.7	94.4	85.8	79.1	82.6	92.8	87.9
18. NPC (MW)	697	697	697	697	697	697	697

ANGR EQUATION: ANGR = -2.889 * EFF + 9234.8

ISSUED BY: FLORIDA POWER CORPORATION

FILED:
 SUSPENDED:
 EFFECTIVE:
 SOCKET NO.:
 ORDER NO.:

ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

CEVOTAL RIVER 5	Oct-92	Nov-92	Dec-92	Jan-93	Feb-93	Mar-93	Oct-Mar Period
1. GAF	0.00	0.00	72.04	96.97	98.05	81.04	37.07
2. PG	785	789	744	744	672	725	4318
3. GN	0.0	0.0	288.4	739.7	672.0	687.5	2487.6
4. GBN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UN	745.0	729.0	125.6	4.3	0.0	35.0	1489.9
6. PBN	775.0	789.0	68.6	0.0	0.0	0.0	1582.6
7. PBN	0.0	0.0	3.4	4.3	0.0	15.8	23.5
8. GBN	0.0	0.0	95.6	0.0	0.0	19.2	112.8
9. PPNB	0.0	0.0	45.3	72.4	44.1	270.6	432.4
10. LR PF (RM)	0.0	0.0	233.0	182.6	287.6	262.6	262.6
11. PBNB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PN (RM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. BDC (RM)	697	697	697	697	697	697	697
14. OPER NETU	0	0	2626198	3961052	3727422	3788723	14185395
15. NET GEN (RM)	0	0	284674	427884	484426	488927	1529851
16. ANGR (BTU/KWH)	0.0	0.0	9280.4	9276.4	9216.6	9245.5	9249.3
17. HSF (%)	0.0	0.0	73.1	82.8	86.3	85.3	82.3
18. HPC (RM)	697	697	697	697	697	697	697

ANGR DEFINITION: ANGR = $-0.002 * HSF + 9284.5$

ISSUED BY: FLORIDA POWER CORPORATION

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

ACTUAL UNIT PERFORMANCE DATA
FLORIDA POWER CORPORATION

ANCIOTE 2	Oct-92	Nov-92	Dec-92	Jan-93	Feb-93	Mar-93	Oct-Mar Period
1. EAF	95.50	28.20	98.98	98.89	98.77	97.83	26.00
2. PH	745	720	744	744	672	744	4360
3. SH	721.4	206.7	325.6	167.0	276.9	744.0	2441.6
4. RSH	0.0	0.0	418.4	577.0	305.1	0.0	1300.5
5. LH	25.6	513.3	0.0	0.0	0.0	0.0	538.9
6. PSH	25.6	513.3	0.0	0.0	0.0	0.0	538.9
7. PSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PPH	129.2	18.9	25.8	26.7	21.9	46.3	276.8
10. LR PF (RM)	98.1	178.3	178.3	178.3	192.2	178.3	138.3
11. PPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PH (RM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. HSC (RM)	511	511	511	511	511	511	511
14. OPER NETU	291800	52891	482400	352418	488318	227380	431899
15. NET GEN (RM)	284896	50995	60991	35467	46144	237343	451334
16. ANGR (BTU/HR)	9771.2	9624.3	9777.8	9936.5	9758.8	9389.0	9781.0
17. HSF (K)	56.0	53.0	41.9	41.6	32.6	62.4	52.2
18. HPC (RM)	511	511	511	511	511	511	511

ANGR RELATION: ANGR = -3.026 * HSF + 10098.6

ISSUED BY: FLORIDA POWER CORPORATION

FILED:
 SUSPENDED:
 EFFECTIVE:
 SOCKET NO.:
 ORDER NO.:

FLORIDA POWER CORPORATION

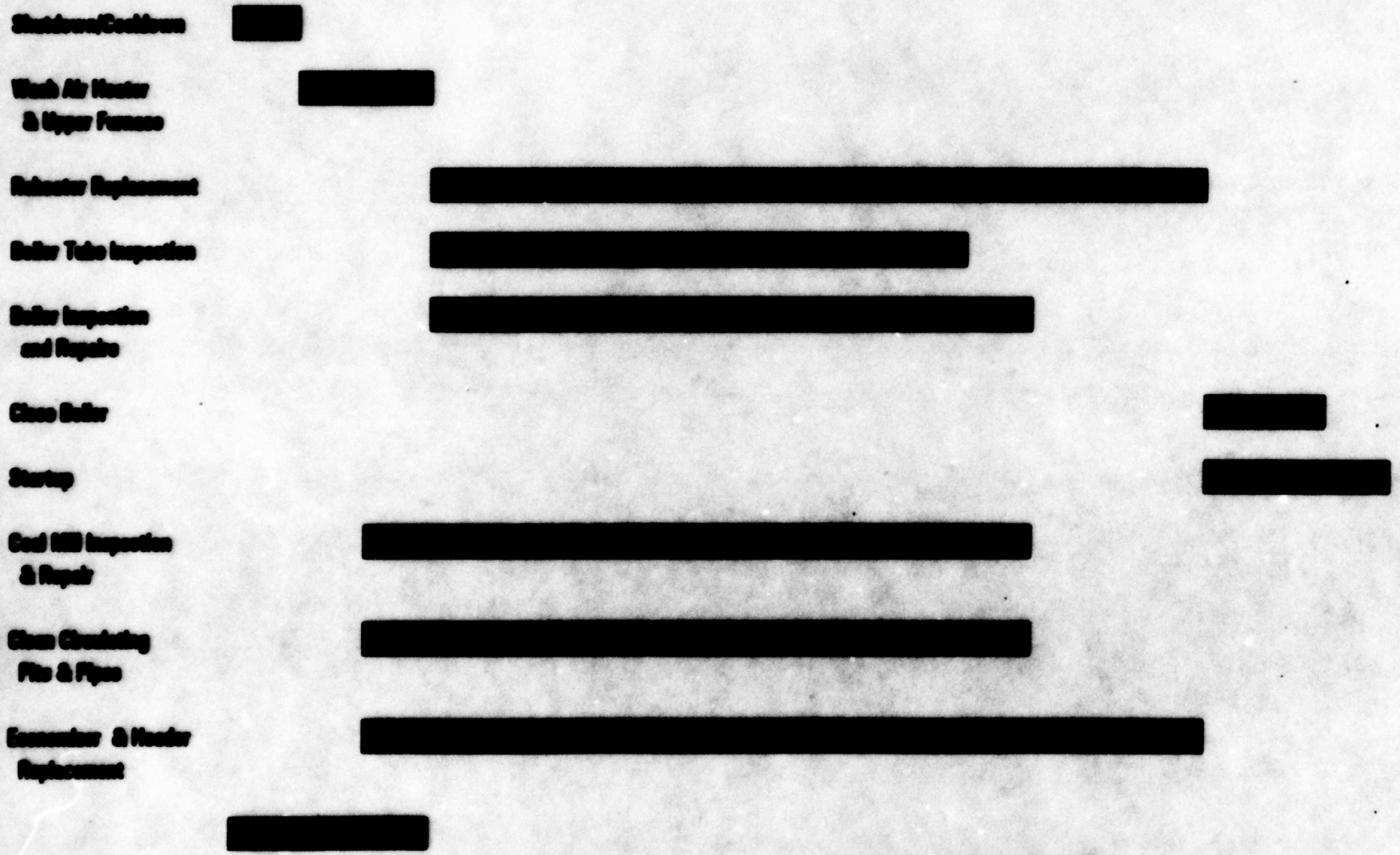
SUBMITTED SCHEDULED OUTAGE PLAN VS ACTUAL SCHEDULED OUTAGES WORKED DURING FUEL ADJUSTMENT PLAN PERIOD OCTOBER, 1982 THRU MARCH, 1983

UNIT	SEP	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL SCHEDULED OUTAGE HRS. WITHIN PLAN PERIOD	
								SUBMITTED	ACTUAL
CRYSTAL RIVER 1							██████████	782.0	783.8
SUBMITTED							██████████		
ACTUAL							██████████		
CRYSTAL RIVER 2		██████████						672.0	743.2
SUBMITTED		██████████							
ACTUAL		██████████							
CRYSTAL RIVER 3							██████████	0.0	670.0
SUBMITTED							██████████		
ACTUAL							██████████		
CRYSTAL RIVER 4							██████████	120.0	0.0
SUBMITTED							██████████		
ACTUAL							██████████		
CRYSTAL RIVER 5		██████████	██████████					1,580.0	1,553.8
SUBMITTED		██████████	██████████						
ACTUAL		██████████	██████████						
ANCLOTE 1								0.0	0.0
SUBMITTED									
ACTUAL									
ANCLOTE 2			██████████					604.0	538.9
SUBMITTED			██████████						
ACTUAL			██████████						
								3,648.0	4,287.5

TOTAL HOURS

FLORIDA POWER CORPORATION
PLAN FOR CRYSTAL RIVER #1 1000 BOILER INSPECTION / BOILER HEADS REPL.
AS-BUILT
(Indicating dates ending midnight)

02/26 02/27 02/28 03/01 03/05 03/08 03/10 03/12 03/15 03/18 03/19 03/20 03/21 03/22 03/23 03/24 03/25 03/26



FLORIDA POWER CORPORATION
PLAN FOR ANNUAL BIRTH OF 1982 BIRTH INSPECTION
AS SET

(Indicate dates only with)

1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002

Shutdown/Outage

Work At Home
& Repair Furnace

Boiler Tube Inspection

Boiler Inspection
and Repairs

Close Boiler

Startup

Coal Mill Inspection
& Repair

Class Checking
Fire & Pipes

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

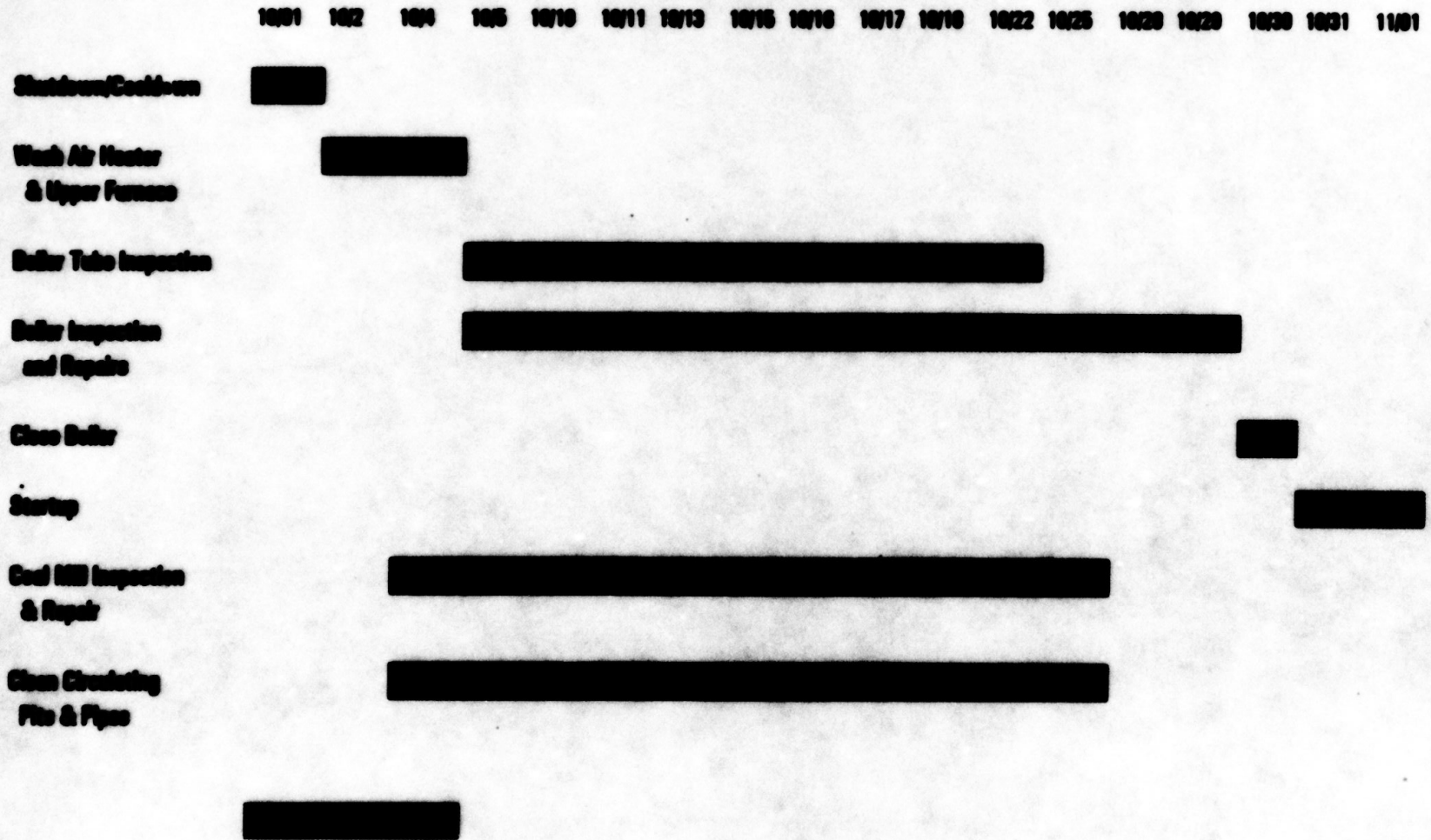
[Redacted]

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[Redacted]

FLORIDA POWER CORPORATION
PLAN FOR CRYSTAL RIVER #2 1002 BOILER INSPECTION
AS-BUILT
(Indicating dates ending midnight)



FLORIDA POWER CORPORATION
PLAN FOR CRYSTAL RIVER 20 1000 MID-CYCLE
AS-BUILT
(Indicating dates ending midnight)

02/04 02/06 02/08 02/12 02/15 02/17 02/21 02/25 02/28 03/01 04/01 04/08 04/15 04/19 04/21 04/24 04/28 04/29

submitted plan period

Shutdown/Cooldown



Condenser Rotate

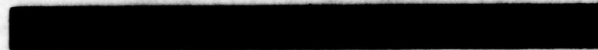


Clear R.B.



PLAN SUBMITTED IN APRIL 1988 - SEPTEMBER 1988 PERIOD

R. B. Flood Plane MAR



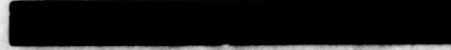
**RCP-1A & RCP-10 Motor
& Coupling Work**



C.F. Nozzle Insulation Repair



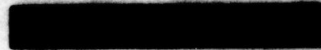
Install New Seal Plant Mod.



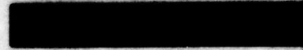
Outage SF's



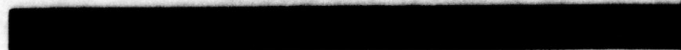
SW Header Work



RCS Worked Drained



Step Up Trans. Work



FLORIDA POWER CORPORATION
PLAN FOR CRYSTAL RIVER #6 1002 BOILER INSPECTION
AS-BUILT
(Indicating dates ending midnight)

9/10 9/16 9/20 9/25 9/30 10/10 10/17 10/24 10/31 11/07 11/14 11/17 10/21 10/24 10/27 11/30 12/02 12/04

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**



**Clean Circulating
Pits & Pipes**

