Florida Power
CORPORATION

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 930001-EI

GPIF REWARD/PENALTY AMOUNT
APRIL 1993 THROUGH SEPTEMBER 1993

DIRECT TESTIMONY
AND EXHIBITS OF

WILLIAM C. MICKLON

For Filing November 15, 1993

FLORIDA POWER CORPORATION

DOCKET NO. 930001-EI

Re: GPIF Reward/Penalty Amount for April through September 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 April through September 1993. This was developed by
17 comparing the actual performance of the Company's seven GPIF

generating units to the approved targets set for these units prior to the period.

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

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

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

A. I have calculated the Company's GPIF incentive amount to be a reward of $1,100,739. This amount was developed in a manner consistent with the GPIF Implementation Manual. Sheet 1 of my exhibit shows the calculation of system GPIF points and the corresponding reward. The summary of weighted incentive points earned by each individual unit can be found on Sheet 3.

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

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

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

Q. Were any adjustments made to actual performance due to the impact of lightning strikes?

A. Yes. In accordance with Section 4.3.1 of the GPIF Implementation Manual, forced outage hours caused by lightning strikes on the Anclote units were removed.

Anclote No. 1 = 0.9 hours

Anclote No. 2 = 0.4 hours

Q. Were any adjustments made to actual performance due to load reductions required to maintain Point of Discharge (P.O.D.) temperature limitations at Crystal River?

A. Yes. In accordance with Section 4.3.1 of the GPIF Implementation Manual, the derating events required to keep the cooling water discharge canal P.O.D. temperature below the maximum allowed limit were removed from availability performance calculation. These events occurred during July and August on Crystal River No. 1, and during June, July, and August on Crystal River No. 2.

Q. Were any adjustments made to actual performance due to NPDES permit mandated load reductions at Crystal River?

A. Yes. In accordance with Section 4.3.1 of the GPIF Implementation Manual, forced outage hours on Crystal River No. 1 due to NPDES permit compliance actions were removed. The event removed was caused by a lightning strike on the helper cooling towers which caused the power transformer to trip. Crystal River No. 1 was removed from service for 6.1 hours to comply with permit limits imposed by the cooling tower trip. Both forced outage hours and period hour have been reduced equally to remove the effect of this event on actual availability performance.

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

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

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

A. Yes, Sheet 22 of my exhibit shows a comparison of target and actual planned outage hours in bar-chart form. Sheets 23 through 26 present as-worked critical path charts for each unit which experienced a planned outage during the period.

Q. Does this conclude your testimony?

A. Yes, it does.

Florida Power Corporation
Docket No. 930001-EI
Witness: Micklon
Exhibit No. _____ (WCM-1)

GPIF REWARD/PENALTY SCHEDULES

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993

	Generating Performance Incentive Points (GPIF)	Fuel Saving/Loss ($)	Generating Performance Incentive Factor ($)
	10	$26,198,800	$2,925,164
	9	$23,578,920	$2,632,647
	8	$20,959,040	$2,340,131
	7	$18,339,160	$2,047,615
	6	$15,719,280	$1,755,098
	5	$13,099,400	$1,462,582
	4	$10,479,520	$1,170,065
****	3.763	$9,858,608	$1,100,739
	3	$7,859,640	$877,549
	2	$5,239,760	$585,033
	1	$2,619,880	$292,516
	0	$0	$0
	-1	$1,380,920	($292,516)
	-2	$2,761,840	($585,033)
	-3	$4,142,760	($877,549)
	-4	$5,523,680	($1,170,065)
	-5	$6,904,600	($1,462,582)
	-6	$8,285,520	($1,755,098)
	-7	$9,666,440	($2,047,615)
	-8	$11,047,360	($2,340,131)
	-9	$12,428,280	($2,632,647)
	-10	($13,809,200)	($2,925,164)

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CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993

Plant/Unit	Performance Indicator EAF or ANOHR	Weighting Factor %	Unit Points	Weighted Unit Points
Crystal River 1	EAF	5.81	7.577	0.440
	ANOHR	2.51	-3.684	-0.093
Crystal River 2	EAF	12.88	-0.533	-0.069
	ANOHR	3.39	-2.703	-0.092
Crystal River 3	EAF	37.39	10.000	3.739
	ANOHR	9.68	-3.124	-0.302
Crystal River 4	EAF	2.66	-0.655	-0.017
	ANOHR	4.96	0.000	0.000
Crystal River 5	EAF	3.10	-0.741	-0.023
	ANOHR	5.63	0.000	0.000
Anclote 1	EAF	2.70	-0.591	-0.016
	ANOHR	3.33	2.10	0.070
Anclote 2	EAF	2.37	5.303	0.126
	ANOHR	3.59	0.000	0.000
GPIF System		100.00		3.763

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GPIF UNIT PERFORMANCE SUMMARY

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993

Plant/Unit	Weighting Factor (%)	EAF Target (%)	EAF RANGE Max. (%)	EAF RANGE Min. (%)	Max. Fuel Savings ($000)	Max. Fuel Loss ($000)	EAF Adjusted Actual (%)	Estimated Fuel Savings/ Loss ($000)
CR 1	5.81	84.31	91.54	70.30	870.8	(2,161.9)	89.80	$659.8
CR 2	12.88	78.12	84.93	64.92	1931.9	(2,056.1)	77.41	($109.5)
CR 3	37.39	72.19	77.92	61.30	5606.6	(3,764.4)	82.88	$5,606.6
CR 4	2.66	83.23	85.21	79.19	399.0	(821.1)	82.96	($53.8)
CR 5	3.10	94.92	97.31	90.01	465.1	(955.0)	94.56	($70.7)
AN 1	2.70	83.39	85.81	78.40	405.2	(813.3)	83.09	($48.1)
AN 2	2.37	94.70	97.20	89.58	355.3	(960.7)	96.02	$188.4
GPIF System	61.84				10033.9	(11,532.5)		$6,172.7

Plant/Unit	Weighting Factor (%)	ANOHR Target (Btu/kwh)	NOF	ANOHR Min. Btu/kwh	RANGE Max. Btu/kwh	Max. Fuel Savings ($000)	Max. Fuel Loss ($000)	ANOHR Adjusted Actual Btu/kwh	Estimated Fuel Savings/ Loss
CR 1	2.51	9987.54	87.4	9837.5	10137.5	376.7	(376.7)	10090.0	($138.8)
CR 2	3.39	9974.81	90.5	9807.7	10141.9	507.9	(507.9)	10074.5	($137.3)
CR 3	9.68	10461.87	99.4	10241.4	10682.3	1451.3	(1,451.3)	10581.7	($453.4)
CR 4	4.96	9244.76	99.3	9094.8	9394.8	743.5	(743.5)	9257.5	$0.0
CR 5	5.63	9301.02	98.7	9151.0	9451.0	844.0	(844.0)	9233.0	$0.0
AN 1	3.33	9763.50	66.1	9586.2	9940.8	499.5	(499.5)	9666.50	$105.1
AN 2	3.59	9885.67	58.8	9670.1	10101.3	538.6	(538.6)	9845.11	$0.0
GPIF System	26.16					4961.5	(4,961.5)		($624.3)

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ACTUAL UNIT PERFORMANCE DATA

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993

PLANT/UNIT	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	EAF ADJUSTED ACTUAL %
CRYSTAL RIVER 1	85.89	3.91	89.80
CRYSTAL RIVER 2	83.33	-5.92	77.41
CRYSTAL RIVER 3	84.17	-1.28	82.88
CRYSTAL RIVER 4	79.75	3.22	82.96
CRYSTAL RIVER 5	94.56	-0.00	94.56
ANCLOTE UNIT 1	80.41	2.68	83.09
ANCLOTE UNIT 2	96.02	0.00	96.02

PLANT/UNIT	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ANOHR ADJUSTED ACTUAL BTU/KWH
CRYSTAL RIVER 1	10111.6	-21.6	10090.0
CRYSTAL RIVER 2	10132.6	-58.1	10074.5
CRYSTAL RIVER 3	10550.8	30.9	10581.7
CRYSTAL RIVER 4	9356.7	-99.2	9257.5
CRYSTAL RIVER 5	9312.3	-79.3	9233.0
ANCLOTE UNIT 1	9922.9	-256.4	9666.5
ANCLOTE UNIT 2	9981.8	-136.69	9845.1

(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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ACTUAL UNIT PERFORMANCE DATA

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993

PLANT/UNIT	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	EAF ADJUSTED ACTUAL %
CRYSTAL RIVER 1	85.89	3.91	89.80
CRYSTAL RIVER 2	83.33	-5.92	77.41
CRYSTAL RIVER 3	84.17	-1.28	82.88
CRYSTAL RIVER 4	79.75	3.22	82.96
CRYSTAL RIVER 5	94.56	-0.00	94.56
ANCLOTE UNIT 1	80.41	2.68	83.09
ANCLOTE UNIT 2	96.02	0.00	96.02

PLANT/UNIT	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ANOHR ADJUSTED ACTUAL BTU/KWH
CRYSTAL RIVER 1	10111.6	-21.6	10090.0
CRYSTAL RIVER 2	10132.6	-58.1	10074.5
CRYSTAL RIVER 3	10550.8	30.9	10581.7
CRYSTAL RIVER 4	9356.7	-99.2	9257.5
CRYSTAL RIVER 5	9312.3	-79.3	9233.0
ANCLOTE UNIT 1	9922.9	-256.4	9666.5
ANCLOTE UNIT 2	9981.8	-136.69	9845.1

(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: Apr. 1993 - Sep. 1993

EAF ADJUSTMENTS FOR PLANNED OUTAGE HOURS		CR1	CR2	CR3	CR4	CR5	AN1	AN2
7. ACTUAL POH	HRS.	190.30	0.00	614.40	700.80	0.00	629.30	0.00
8. TARGET POH	HRS.	0.00	312.00	672.00	552.00	0.00	504.00	0.00
9. ADJ. FACTOR (PH-POHT/PH-POHA)		1.05	0.93	0.98	1.04	1.00	1.03	1.00
10. ACTUAL EUOH *	HRS.	428.51	731.78	80.75	188.50	238.96	230.82	174.56
11. ADJ. EUOH (3*4)	HRS.	447.92	679.78	79.52	196.10	238.96	238.51	174.56
12. ACTUAL EAF *	%	85.89	83.33	84.17	79.75	94.56	80.41	96.02
13. ADJUSTED EAF (using 2 & 5)	%	89.80	77.41	82.88	82.96	94.56	83.09	96.02
14. DIFFERENCE	%	3.91	-5.92	-1.28	3.22	-0.00	2.68	0.00
15. TOTAL ADJ TO EAF (6 + 14)	%	3.91	-5.92	-1.28	3.22	-0.00	2.68	0.00

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

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 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	$870,800	89.79	10	$376,700	9837.5	
	9	$783,720	91.54	9	$339,030	9845.0	
	8	$696,640	90.82	8	$301,360	9852.5	
****	7.577	$659,790	85.03	7	$263,690	9860.0	
	7	$609,560	90.09	6	$226,020	9867.5	
	6	$522,480	89.37	5	$188,350	9875.0	
	5	$435,400	88.65	4	$150,680	9882.5	
	4	$348,320	87.92	3	$113,010	9890.0	
	3	$261,240	87.20	2	$75,340	9897.5	
	2	$174,160	86.48	1	$37,670	9905.0	
	1	$87,080	85.75	0	$0	9912.5	
		$0	84.31	0	$0	9987.5	
	0	$0	84.31	0	$0	10062.5	
		$0	84.31	-1	($37,670)	10070.0	
	-1	($216,190)	82.91	-2	($75,340)	10077.5	
	-2	($432,380)	81.51	-3	($113,010)	10085.0	
	-3	($648,570)	80.11	-3.684	($138,759)	10090.2	****
	-4	($864,760)	78.70	-4	($150,680)	10092.5	
	-5	($1,080,950)	77.30	-5	($188,350)	10100.0	
	-6	($1,297,140)	75.90	-6	($226,020)	10107.5	
	-7	($1,513,330)	74.50	-7	($263,690)	10115.0	
	-8	($1,729,520)	73.10	-8	($301,360)	10122.5	
	-9	($1,945,710)	71.70	-9	($339,030)	10130.0	
	-10	($2,161,900)	70.30	-10	($376,700)	10137.5	

Equivalent Availability Weighting Factor:	Heat Rate Weighting Factor:
5.81%	2.51%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 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	$1,931,900	84.93	10	$507,900	9807.7	
	9	$1,738,710	84.25	9	$457,110	9816.9	
	8	$1,545,520	83.57	8	$406,320	9826.1	
	7	$1,352,330	82.89	7	$355,530	9835.3	
	6	$1,159,140	82.21	6	$304,740	9844.6	
	5	$965,950	81.53	5	$253,950	9853.8	
	4	$772,760	80.85	4	$203,160	9863.0	
	3	$579,570	80.17	3	$152,370	9872.2	
	2	$386,380	79.48	2	$101,580	9881.4	
	1	$193,190	78.80	1	$50,790	9890.6	
		$0	78.12	0	$0	9899.8	
	0	$0	78.12	0	$0	9974.8	
		$0	78.12	0	$0	10049.8	
****	-0.533	($102,906)	77.42	-1	($50,790)	10059.0	
	-1	$205,610	76.80	-2	($101,580)	10068.2	
	-2	$411,220	75.48	-2.703	($137,260)	10074.7	****
	-3	$616,830	74.16	-3	($152,370)	10077.4	
	-4	$822,440	72.84	-4	($203,160)	10086.6	
	-5	$1,028,050	71.52	-5	($253,950)	10095.9	
	-6	$1,233,660	70.20	-6	($304,740)	10105.1	
	-7	$1,439,270	68.88	-7	($355,530)	10114.3	
	-8	$1,644,880	67.56	-8	($406,320)	10123.5	
	-9	$1,850,490	66.24	-9	($457,110)	10132.7	
	-10	($2,056,100)	64.92	-10	($507,900)	10141.9	

Equivalent Availability Weighting Factor:	Heat Rate Weighting Factor:
12.88%	3.39%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993
Unit: Crystal River 3

	Equivalent Availability (Points)	Fuel Savings/Loss ($)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss ($)	Average Heat Rate (BTU/KWH)	
****	10.000	$5,606,600	82.89	10	$1,451,300	10241.4	
	10	$5,606,600	77.92	9	$1,306,170	10256.0	
	9	$5,045,940	77.35	8	$1,161,040	10270.5	
	8	$4,485,280	76.77	7	$1,015,910	10285.1	
	7	$3,924,620	76.20	6	$870,780	10299.6	
	6	$3,363,960	75.63	5	$725,650	10314.2	
	5	$2,803,300	75.06	4	$580,520	10328.7	
	4	$2,242,640	74.48	3	$435,390	10343.2	
	3	$1,681,980	73.91	2	$290,260	10357.8	
	2	$1,121,320	73.34	1	$145,130	10372.3	
	1	$560,660	72.77	0	$0	10386.9	
		$0	72.19	0	$0	10461.9	
	0	$0	72.19	0	$0	10536.9	
		$0	72.19	-1	($145,130)	10551.4	
	-1	($376,440)	71.11	-2	($290,260)	10566.0	
	-2	($752,880)	70.02	-3	($435,390)	10580.5	
	-3	($1,129,320)	68.93	-3.124	($453,441)	10582.3	****
	-4	($1,505,760)	67.84	-4	($580,520)	10595.0	
	-5	($1,882,200)	66.75	-5	($725,650)	10609.6	
	-6	($2,258,640)	65.66	-6	($870,780)	10624.1	
	-7	($2,635,080)	64.57	-7	($1,015,910)	10638.7	
	-8	($3,011,520)	63.48	-8	($1,161,040)	10653.2	
	-9	($3,387,960)	62.39	-9	($1,306,170)	10667.7	
	-10	($3,764,400)	61.30	-10	($1,451,300)	10682.3	

Equivalent Availability Weighting Factor:	Heat Rate Weighting Factor:
37.39%	9.68%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993
Unit: Crystal River 3

	Equivalent Availability (Points)	Fuel Savings/Loss ($)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss ($)	Average Heat Rate (BTU/KWH)	
****	10.000	$5,606,600	82.89	10	$1,451,300	10241.4	
	10	$5,606,600	77.92	9	$1,306,170	10256.0	
	9	$5,045,940	77.35	8	$1,161,040	10270.5	
	8	$4,485,280	76.77	7	$1,015,910	10285.1	
	7	$3,924,620	76.20	6	$870,780	10299.6	
	6	$3,363,960	75.63	5	$725,650	10314.2	
	5	$2,803,300	75.06	4	$580,520	10328.7	
	4	$2,242,640	74.48	3	$435,390	10343.2	
	3	$1,681,980	73.91	2	$290,260	10357.8	
	2	$1,121,320	73.34	1	$145,130	10372.3	
	1	$560,660	72.77	0	$0	10386.9	
		$0	72.19	0	$0	10461.9	
	0	$0	72.19	0	$0	10536.9	
		$0	72.19	-1	($145,130)	10551.4	
	-1	($376,440)	71.11	-2	($290,260)	10566.0	
	-2	($752,880)	70.02	-3	($435,390)	10580.5	
	-3	($1,129,320)	68.93	-3.124	($453,441)	10582.3	****
	-4	($1,505,760)	67.84	-4	($580,520)	10595.0	
	-5	($1,882,200)	66.75	-5	($725,650)	10609.6	
	-6	($2,258,640)	65.66	-6	($870,780)	10624.1	
	-7	($2,635,080)	64.57	-7	($1,015,910)	10638.7	
	-8	($3,011,520)	63.48	-8	($1,161,040)	10653.2	
	-9	($3,387,960)	62.39	-9	($1,306,170)	10667.7	
	-10	($3,764,400)	61.30	-10	($1,451,300)	10682.3	

Equivalent Availability Weighting Factor:	Heat Rate Weighting Factor:
37.39%	9.68%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993
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	$399,000	85.21	10	$743,500	9094.8	
	9	$359,100	85.01	9	$669,150	9102.3	
	8	$319,200	84.81	8	$594,800	9109.8	
	7	$279,300	84.61	7	$520,450	9117.3	
	6	$239,400	84.42	6	$446,100	9124.8	
	5	$199,500	84.22	5	$371,750	9132.3	
	4	$159,600	84.02	4	$297,400	9139.8	
	3	$119,700	83.82	3	$223,050	9147.3	
	2	$79,800	83.63	2	$148,700	9154.8	
	1	$39,900	83.43	1	$74,350	9162.3	
		$0	83.23	0	$0	9169.8	
	0	$0	83.23	0	$0	9244.8	
		$0	83.23	0.000	$0	9257.7	****
****	-0.655	($53,787)	82.97	0	$0	9319.8	
	-1	($82,110)	82.83	-1	($74,350)	9327.3	
	-2	($164,220)	82.42	-2	($148,700)	9334.8	
	-3	($246,330)	82.02	-3	($223,050)	9342.3	
	-4	($328,440)	81.62	-4	($297,400)	9349.8	
	-5	($410,550)	81.21	-5	($371,750)	9357.3	
	-6	($492,660)	80.81	-6	($446,100)	9364.8	
	-7	($574,770)	80.41	-7	($520,450)	9372.3	
	-8	($656,880)	80.00	-8	($594,800)	9379.8	
	-9	($738,990)	79.60	-9	($669,150)	9387.3	
	-10	($821,100)	79.19	-10	($743,500)	9394.8	

Equivalent Availability Weighting Factor:	Heat Rate Weighting Factor:
2.66%	4.96%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Company: Florida Power Corporation
Period of: Apr. 1993 - Sep. 1993
Unit: Anclote 1

	Equivalent Availability (Points)	Fuel Savings/Loss ($)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss ($)	Average Heat Rate (BTU/KWH)	
	10	$405,200	85.81	10	$499,500	9586.2	
	9	($21,568)	85.57	9	$449,550	9596.5	
	8	($19,171)	85.33	8	$399,600	9606.7	
	7	($16,775)	85.08	7	$349,650	9616.9	
	6	($14,379)	84.84	6	$299,700	9627.1	
	5	($11,982)	84.60	5	$249,750	9637.4	
	4	($9,586)	84.36	4	$199,800	9647.6	
	3	($7,189)	84.11	3	$149,850	9657.8	
	2	($4,793)	83.87	2.105	$105,138	9667.0	****
	1	($2,396)	83.63	2	$99,900	9668.0	
	0	$0	83.39	1	$49,950	9678.3	
	0	$0	83.39	0	$0	9688.5	
	0	$0	83.39	0	$0	9763.5	
****	-0.591	($23,964)	83.09	0	$0	9838.5	
	-1	($81,330)	82.89	-1	($50,790)	9848.7	
	-2	($162,660)	82.39	-2	($101,580)	9858.9	
	-3	($243,990)	81.89	-3	($152,370)	9869.2	
	-4	($325,320)	81.39	-4	($203,160)	9879.4	
	-5	($406,650)	80.89	-5	($253,950)	9889.6	
	-6	($487,980)	80.39	-6	($304,740)	9899.8	
	-7	($569,310)	79.89	-7	($355,530)	9910.1	
	-8	($650,640)	79.39	-8	($406,320)	9920.3	
	-9	($731,970)	78.89	-9	($457,110)	9930.5	
	-10	($813,300)	78.40	-10	($507,900)	9940.8	

Equivalent Availability Weighting Factor:	Heat Rate Weighting Factor:
2.70%	3.33%

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ACTUAL UNIT PERFORMANCE DATA

FLORIDA POWER CORPORATION

CRYSTAL RIVER 1	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-Mar Period
1. EAF	51.19	95.23	92.82	89.84	92.56	93.03	85.89
2. PH	719	744	713.9	744	744	720	4385
3. SH	373.0	744	713.9	744	743.6	720	4038.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	346.0	0.0	0.0	0.0	0.4	0.0	346.4
6. POH	190.3	0.0	0.0	0.0	0.0	0.0	190.3
7. FOH	155.7	0.0	0.0	0.0	0.4	0.0	156.1
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	27.7	165.3	549.2	575.1	243.5	120.1	1680.9
10. LR PF (MW)	66.7	79.8	34.7	48.9	84.0	155.4	60.3
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)	372	372	372	372	372	372	372
14. OPER MBTU	1239423	2339599	2295812	2333365	2395625	2325675	12929499
15. NET GEN (MWH)	125954	230660	226746	229467	234006	231853	1278686
16. ANOHR (BTU/KWH)	9840.3	10143.1	10125.0	10168.6	10237.5	10030.8	10111.6
17. NOF (%)	90.8	83.3	85.4	82.9	84.6	86.6	85.1
18. NPC (MW)	372	372	372	372	372	372	372

ANOHR EQUATION: ANOHR = -9.623 * NOF + 10828.0

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ACTUAL UNIT PERFORMANCE DATA

F L O R I D A P O W E R C O R P O R A T I O N

CRYSTAL RIVER 2	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-Mar Period
1. EAF	95.22	74.25	66.98	75.54	94.75	93.46	83.33
2. PH	719	744	720	744	744	720	4391
3. SH	717.5	572.6	512.1	629.7	720.9	718.3	3871.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	1.5	171.4	207.9	114.3	23.1	1.7	519.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	1.5	161.2	207.9	72.6	0.0	0.0	443.2
8. MOH	0.0	10.2	0.0	41.7	23.1	1.7	76.7
9. PFOH	136.9	130.4	97.4	173.1	61.3	96.5	695.6
10. LR PF (MW)	112.3	72.4	143.4	182.9	122.0	220.1	142.6
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	3136780	2124349	1925969	2342245	2950207	2825844	15305394
15. NET GEN (MWH)	314284	209953	189879	228418	287668	280306	1510508
16. ANOHR (BTU/KWH)	9980.7	10118.2	10143.1	10254.2	10255.6	10081.3	10132.6
17. NOF (%)	93.6	78.3	79.2	77.5	85.3	83.4	83.4
18. NPC (MW)	468	468	468	468	468	468	468

ANOHR EQUATION: ANOHR = -8.187 * NOF + 10715.3

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ACTUAL UNIT PERFORMANCE DATA

F L O R I D A P O W E R C O R P O R A T I O N

CRYSTAL RIVER 3	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-Mar Period
1. EAF	14.18	99.28	99.74	99.55	100.00	90.62	84.17
2. PH	719	744	720	744	744	720	4391
3. SH	104.6	744.0	720.0	744.0	744.0	656.5	3713.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	614.4	0.0	0.0	0.0	0.0	63.5	677.9
6. POH	614.4	0.0	0.0	0.0	0.0	0.0	614.4
7. FOH	0.0	0.0	0.0	0.0	0.0	63.5	63.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	26.4	33.9	6.5	28.8	0.0	23.1	118.7
10. LR PF (MW)	75.1	117.1	212.5	86.5	0.0	129.3	107.9
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6
14. OPER MBTU	654582	5790963	5663904	5797180	5837961	5595211	29339801
15. NET GEN (MWH)	59201	559009	535245	549098	547907	530347	2780807
16. ANOHR (BTU/KWH)	11056.9	10359.3	10581.9	10557.6	10655.0	10550.1	10550.8
17. NOF (%)	76.2	101.2	100.1	99.4	99.2	108.8	100.9
18. NPC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6

ANOHR EQUATION: ANOHR = -22.041 * NOF + 12653.3

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ACTUAL UNIT PERFORMANCE DATA

F L O R I D A P O W E R C O R P O R A T I O N

CRYSTAL RIVER 3	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-Mar Period
1. EAF	14.18	99.28	99.74	99.55	100.00	90.62	84.17
2. PH	719	744	720	744	744	720	4391
3. SH	104.6	744.0	720.0	744.0	744.0	656.5	3713.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	614.4	0.0	0.0	0.0	0.0	63.5	677.9
6. POH	614.4	0.0	0.0	0.0	0.0	0.0	614.4
7. FOH	0.0	0.0	0.0	0.0	0.0	63.5	63.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	26.4	33.9	6.5	28.8	0.0	23.1	118.7
10. LR PF (MW)	75.1	117.1	212.5	86.5	0.0	129.3	107.9
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6
14. OPER MBTU	654582	5790963	5663904	5797180	5837961	5595211	29339801
15. NET GEN (MWH)	59201	559009	535245	549098	547907	530347	2780807
16. ANOHR (BTU/KWH)	11056.9	10359.3	10581.9	10557.6	10655.0	10550.1	10550.8
17. NOF (%)	76.2	101.2	100.1	99.4	99.2	108.8	100.9
18. NPC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6

ANOHR EQUATION: ANOHR = -22.041 * NOF + 12653.3

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ACTUAL UNIT PERFORMANCE DATA

F L O R I D A P O W E R C O R P O R A T I O N

CRYSTAL RIVER 3	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-Mar Period
1. EAF	14.18	99.28	99.74	99.55	100.00	90.62	84.17
2. PH	719	744	720	744	744	720	4391
3. SH	104.6	744.0	720.0	744.0	744.0	656.5	3713.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	614.4	0.0	0.0	0.0	0.0	63.5	677.9
6. POH	614.4	0.0	0.0	0.0	0.0	0.0	614.4
7. FOH	0.0	0.0	0.0	0.0	0.0	63.5	63.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	26.4	33.9	6.5	28.8	0.0	23.1	118.7
10. LR PF (MW)	75.1	117.1	212.5	86.5	0.0	129.3	107.9
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6
14. OPER MBTU	654582	5790963	5663904	5797180	5837961	5595211	29339801
15. NET GEN (MWH)	59201	559009	535245	549098	547907	530347	2780807
16. ANOHR (BTU/KWH)	11056.9	10359.3	10581.9	10557.6	10655.0	10550.1	10550.8
17. NOF (%)	76.2	101.2	100.1	99.4	99.2	108.8	100.9
18. NPC (MW)	742.6	742.6	742.6	742.6	742.6	742.6	742.6

ANOHR EQUATION: ANOHR = -22.041 * NOF + 12653.3

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ACTUAL UNIT PERFORMANCE DATA

F L O R I D A P O W E R C O R P O R A T I O N

ANCLOTE 1	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-Mar Period
1. EAF	75.11	37.59	89.94	87.07	96.84	96.56	80.41
2. PH	719	744	720	744	743	720	4390
3. SH	551.9	132.3	625.0	664.0	742.2	685.2	3400.6
4. RSH	0.0	149.5	44.9	1.8	0.0	33.8	230.0
5. UH	167.1	462.2	50.1	78.2	0.9	1.0	759.5
6. POH	167.1	462.2	0.0	0.0	0.0	0.0	629.3
7. FOH	0.0	0.0	50.1	78.2	0.0	0.0	128.3
8. MOH	0.0	0.0	0.0	0.0	0.9	1.0	1.9
9. PFOH	35.7	6.5	63.7	45.2	67.9	303.3	522.3
10. LR PF (MW)	169.4	169.7	178.9	203.2	169.7	40.1	98.4
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)	511	511	511	511	511	511	511
14. OPER MBTU	1779016	275492	1640958	1798696	2091339	1844325	9429826
15. NET GEN (MWH)	184605	26714	165697	182962	208701	181632	950311
16. ANOHR (BTU/KWH)	9636.9	10312.6	9903.4	9831.0	10020.7	10154.2	9922.9
17. NOF (%)	65.5	39.5	51.9	53.9	55.0	51.9	54.7
18. NPC (MW)	511	511	511	511	511	511	511

ANOHR EQUATION: ANOHR = -22.429 * NOF + 11246.0

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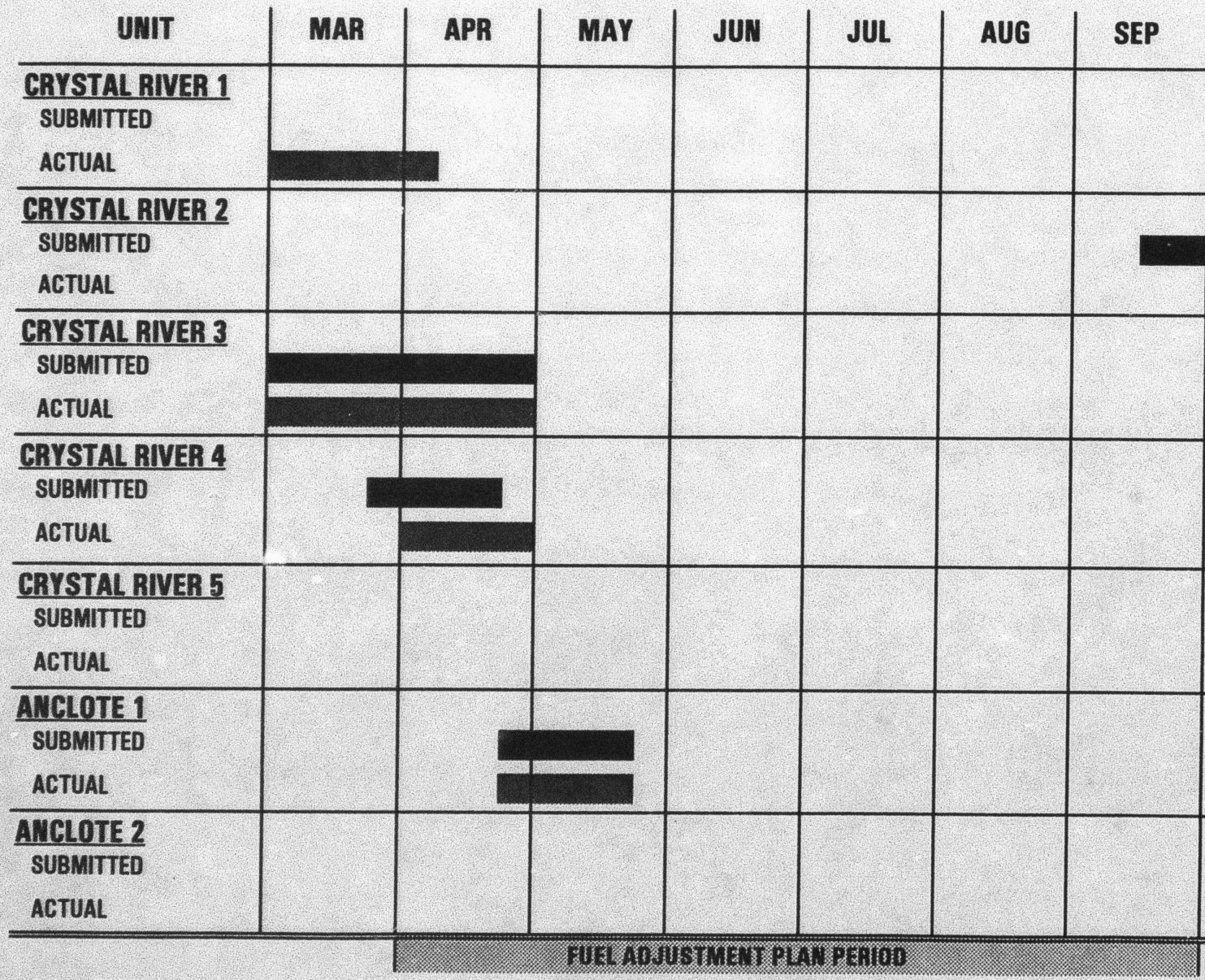
FLORIDA POWER CORPORATION

SUBMITTED SCHEDULED OUTAGE PLAN VS ACTUAL SCHEDULED OUTAGES WORKED DURING

FUEL ADJUSTMENT PLAN PERIOD APRIL, 1993 THRU SEPTEMBER, 1993



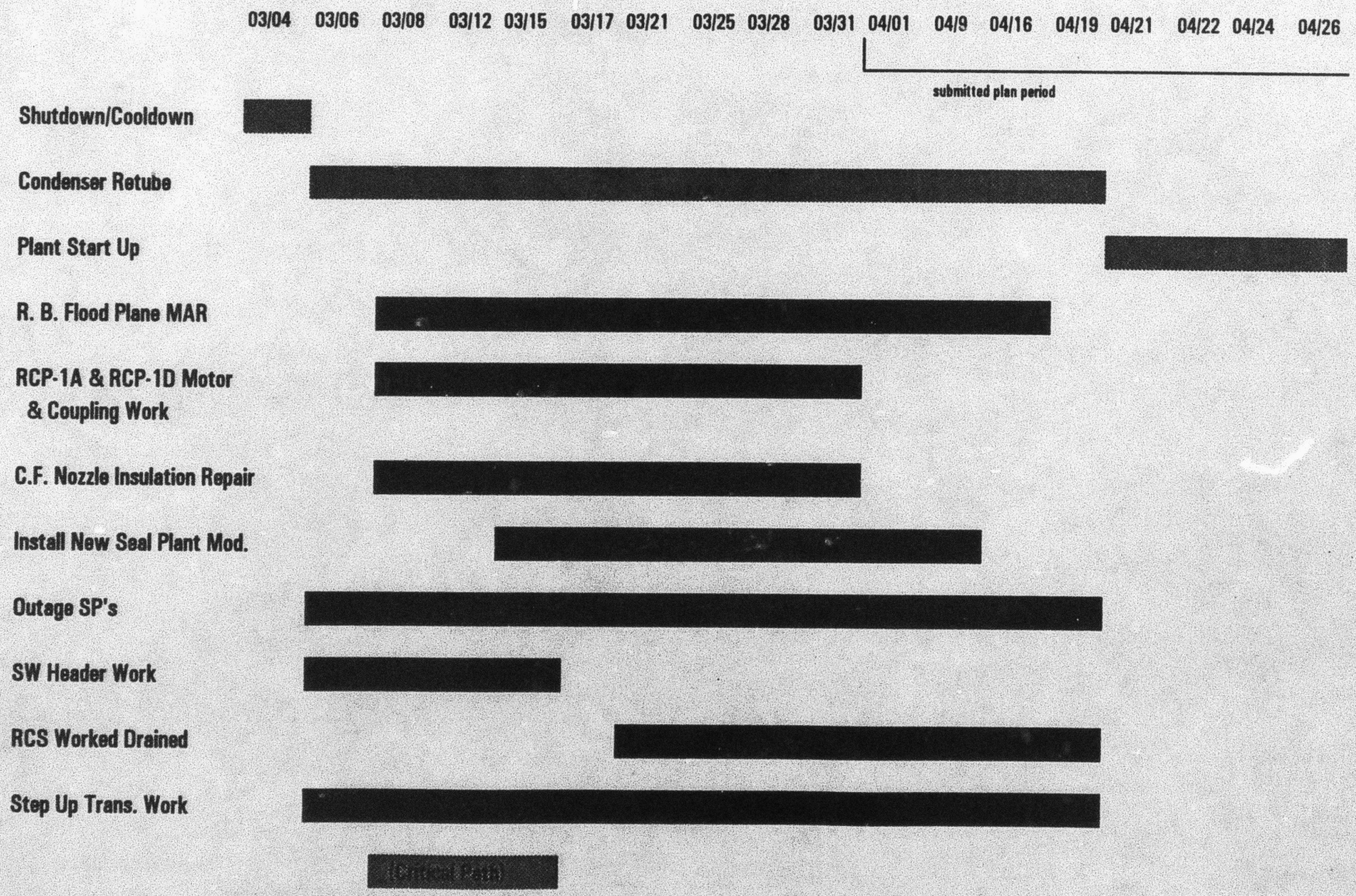
TOTAL SCHEDULED OUTAGE HRS. WITHIN PLAN PERIOD	
SUBMITTED	ACTUAL
0.0	109.3
312.0	0.0
672.0	614.4
552.0	700.8
0.0	0.0
672.0	629.3
0.0	0.0
2,208.0	2,053.8
TOTAL HOURS	

FLORIDA POWER CORPORATION

PLAN FOR CRYSTAL RIVER #3 1993 MID-CYCLE

AS-BUILT

(indicating dates ending midnight)



FLORIDA POWER CORPORATION

PLAN FOR CRYSTAL RIVER #4 1993 BOILER INSPECTION

AS-BUILT

(indicating dates ending midnight)