

ORIGINAL

TAMPA ELECTRIC COMPANY
DOCKET NO. 000001-EI
SUBMITTED FOR FILING 04/03/00
(TRUE-UP)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

BRIAN S. BUCKLEY

Q. Will you please state your name, business address, and employer?

A. My name is Brian S. Buckley and my business address is Post Office Box 111, Tampa, Florida 33601. I am employed by Tampa Electric Company.

Q. Please furnish us with a brief outline of your educational background and business experience.

A. I graduated in 1997 from the Georgia Institute of Technology with a Bachelor's Degree in Mechanical Engineering. My current position is that of Engineer - Energy Supply.

Q. What are your current responsibilities?

A. I am responsible for unit performance analysis and reporting of generation statistics.

DOCUMENT NUMBER-DATE

04066 APR-38

FPSC-RECORDS/REPORTING

1 Q. What is the purpose of your testimony?

2

3 A. My testimony presents the actual performance results from
4 unit equivalent availability and station heat rate used to
5 determine the Generating Performance Incentive Factor
6 (GPIF) for the period January 1999 through December 1999.
7 I will also compare these results to the targets
8 established prior to the beginning of the period.

9

10 Q. Have you prepared an exhibit with the results for this
11 twelve month period?

12

13 A. Yes. The exhibit entitled, "Tampa Electric Company,
14 January 1999 - December 1999, Generating Performance
15 Incentive Factor Results" consists of 29 pages and was
16 filed with this testimony (Have identified as Exhibit
17 BSB-1).

18

19 Q. Have you calculated the results of Tampa Electric Company
20 for its performance under the GPIF during this period?

21

22 A. Yes I have. This is shown on page 4 of my exhibit. Based
23 upon - 2.517 GPIF points, the result is a penalty amount
24 of \$1,151,236 for the period.

25

- 1 Q. Please proceed with your review of the actual results for
2 the January 1999 - December 1999 period.
3
- 4 A. On page 3 of my exhibit, the actual average common equity
5 for the period is shown on line 14 as \$1,154,445,058.
6 This produces the maximum penalty or reward figure of
7 \$4,573,840 as shown on line 21, page 3.
8
- 9 Q. Will you please explain how you arrived at the actual
10 equivalent availability results for the six units included
11 within the GPIF?
12
- 13 A. Yes I will. Operating data on each of our units is filed
14 monthly with the Florida Public Service Commission on the
15 Actual Unit Performance data form. Additionally, outage
16 information is reported to the Commission on a monthly
17 basis. A summary of this data for the twelve months
18 provides the basis for the GPIF.
19
- 20 Q. Are the equivalent availability results shown on page 6
21 column 2, directly applicable to the GPIF table?
22
- 23 A. Not exactly. Adjustments to equivalent availability may
24 be required as noted in section 4.3.3 of the GPIF Manual.
25 The actual equivalent availability including the required

1 adjustment is shown on page 6 of my exhibit. The necessary
2 adjustments as prescribed in the GPIF Manual are further
3 defined by a letter dated October 23, 1981, from Mr. J.H.
4 Hoffsis of the Commission's Staff. The adjustments for
5 each unit are as follows:

6
7 Gannon Unit No. 5

8 On this unit, 504 planned outage hours were originally
9 scheduled for 1999. To produce the greatest benefit
10 from the repair time required on the unit as a result of
11 the Gannon 6 accident, planned outage work was moved
12 forward from the Fall and accomplished in addition to work
13 planned for the Spring. This required 790.3 planned
14 outage hours. Consequently, the actual equivalent
15 availability of 69.4% is adjusted to 71.9% as shown on
16 page 7 of my exhibits.

17
18 Gannon Unit No. 6

19 On this unit, 1176 planned outage hours were originally
20 scheduled for 1999. Due to an accident which occurred at
21 the beginning of the planned outage, the outage was
22 extended and additional necessary work was accomplished
23 in conjunction with repairs attributed to the accident.
24 Outage activities required 1934.2 planned outage hours.
25 Consequently, the actual equivalent availability of 57.3%

1 is adjusted to 63.7%, as shown on page 8 of my exhibit.

2

3 Big Bend Unit No. 1

4 On this unit, 336 planned outage hours were originally
5 scheduled for 1999. Actual outage activities required
6 172.6 planned outage hours. Consequently, the actual
7 equivalent availability of 78.9% is adjusted to 77.4%
8 as shown on page 9 of my exhibit.

9

10 Big Bend Unit No. 2

11 On this unit, 336 planned outage hours were originally
12 scheduled for 1999. Actual outage activities required
13 306.1 planned outage hours. Consequently, the actual
14 equivalent availability of 81.4% is adjusted to 81.1% as
15 shown on page 10 of my exhibit.

16

17 Big Bend Unit No. 3

18 On this unit, 1008 planned outage hours were originally
19 scheduled for 1999. Actual outage activities required
20 1384.2 planned outage hours. Consequently, the actual
21 equivalent availability of 65.2% is adjusted to 68.5%
22 as shown on page 11 of my exhibit.

23

24

25

1 Big Bend Unit No. 4

2 On this unit, 504 planned outage hours were originally
3 scheduled for 1999. Due to a revision in the outage
4 schedule, additional work was moved forward from the
5 Spring of 2000 and a major outage was accomplished in the
6 Fall of 1999. This required 1138.8 planned outage hours.
7 Consequently, the actual equivalent availability of 73.0%
8 is adjusted to 79.1% as shown on page 12 of my exhibit.

9

10 Q. How did you arrive at the applicable equivalent
11 availability points for each unit?

12

13 A. The final adjusted equivalent availabilities for each
14 unit are shown on page 6, column 4, of my exhibit. This
15 number is entered into the respective Generating
16 Performance Incentive Point (GPIP) Table for each
17 particular unit on pages 22 through 27. Page 4 of my
18 exhibit summarizes the equivalent availability points
19 to be awarded or penalized.

20

21 Q. Will you please explain the heat rate results relative
22 to the GPIF?

23

24 A. The actual heat rate and adjusted actual heat rate for
25 Gannon Units 5 & 6 and Big Bend Units 1, 2, 3, & 4 are

1 shown on page 6 of my exhibit. The adjustment was
2 developed based on the guidelines of section 4.3.16 of
3 the GPIF Manual. This procedure is further defined by a
4 letter dated October 23, 1981, from Mr. J.H. Hoffsis of
5 the FPSC Staff. The final adjusted actual heat rates are
6 also shown on page 5 of my exhibit. This heat rate number
7 is entered into the respective GPIF table for the
8 particular unit, shown on pages 22 through 27. Page 4 of
9 my exhibit summarizes the weighted heat rate and
10 equivalent availability points to be awarded.

11
12 Q. What is the overall GPIF for Tampa Electric Company during
13 this twelve month period?

14
15 A. This is shown on page 29 of my exhibit. Essentially, the
16 weighting factors shown on page 4, column 3, plus the
17 equivalent availability points and the heat rate points
18 shown on page 4, column 4, are substituted within the
19 equation. This resultant value, -2.517, is then entered
20 into the GPIF table on page 2. Using linear interpolation,
21 a penalty amount of \$1,151,236 is calculated.

22
23 Q. Does this conclude your testimony?


24
25 A. Yes, it does.

**TAMPA ELECTRIC COMPANY
JANUARY 1999 - DECEMBER 1999
GENERATING PERFORMANCE INCENTIVE FACTOR
RESULTS
TABLE OF CONTENTS**

<u>SCHEDULE</u>	<u>PAGE</u>
GPIF REWARD / PENALTY TABLE ACTUAL	2
GPIF CALCULATIONS OF MAXIMUM ALLOWED INCENTIVE DOLLARS	3
CALCULATIONS OF SYSTEM ACTUAL GPIF POINTS	4
GPIF UNIT PERFORMANCE SUMMARY, EQUIVALENT AVAILABILITY	5
GPIF UNIT PERFORMANCE SUMMARY, AVERAGE NET OPERATING HEAT RATE	5
GPIF UNIT PERFORMANCE DATA	6
GPIF (EAF & HEAT RATE) ADJUSTMENT COMPUTATIONS	7 - 18
PLANNED OUTAGE SCHEDULE - ACTUAL	19
CRITICAL PATH DIAGRAM	20 - 21
GENERATING PERFORMANCE INCENTIVE POINTS TABLES (ACTUAL)	22 - 27
COMPARISON OF GPIF TARGET VS ACTUAL PERFORMANCE	28
GENERATING PERFORMANCE INCENTIVE POINTS CALCULATIONS	29


**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
REWARD / PENALTY TABLE - ACTUAL
JANUARY 1999 - DECEMBER 1999**

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) (\$000)	GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)
+10	13,646.8	4,573.8
+9	12,282.1	4,116.5
+8	10,917.4	3,659.1
+7	9,552.8	3,201.7
+6	8,188.1	2,744.3
+5	6,823.4	2,286.9
+4	5,458.7	1,829.5
+3	4,094.0	1,372.2
+2	2,729.4	914.8
+1	1,364.7	457.4
0	0	0.0
-1	(1,916.3)	(457.4)
-2	(3,832.6)	(914.8)
-3	(5,748.9)	(1,372.2)
-4	(7,665.2)	(1,829.5)
-5	(9,581.6)	(2,286.9)
-6	(11,497.9)	(2,744.3)
-7	(13,414.2)	(3,201.7)
-8	(15,330.5)	(3,659.1)
-9	(17,246.8)	(4,116.5)
-10	(19,163.1)	(4,573.8)



**GPIP
Points
-2.517**

**PENALTY
DOLLARS
(\$1,151,236)**



**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS
ACTUAL
JANUARY 1999 - DECEMBER 1999**

Line 1	Beginning of period balance of common equity end of month common equity:		\$1,156,581,588
Line 2	Month of January	1999	\$1,133,995,621
Line 3	Month of February	1999	\$1,142,503,538
Line 4	Month of March	1999	\$1,150,410,775
Line 5	Month of April	1999	\$1,139,775,695
Line 6	Month of May	1999	\$1,151,500,331
Line 7	Month of June	1999	\$1,167,737,939
Line 8	Month of July	1999	\$1,157,813,685
Line 9	Month of August	1999	\$1,178,486,357
Line 10	Month of September	1999	\$1,184,168,679
Line 11	Month of October	1999	\$1,142,958,110
Line 12	Month of November	1999	\$1,150,846,179
Line 13	Month of December	1999	\$1,151,007,253
Line 14	(summation of line 1 through line 13 divided by 13)		\$1,154,445,058
Line 15	25 Basis points		0.0025
Line 16	Revenue expansion factor		61.3738%
Line 17	Maximum allowed incentive dollars (Line 14 times line 15 divided by line 16)		\$4,702,516
Line 18	Jurisdictional Sales		15619037 MWH
Line 19	Total Sales		16058448 MWH
Line 20	Jurisdictional Separation Factor (Line 18 divided by line 19)		97.26%
Line 21	Maximum allowed jurisdictional incentive dollars (Line 17 times line 20)		\$4,573,840

**TAMPA ELECTRIC COMPANY
CALCULATION OF SYSTEM GPIF POINTS
JANUARY 1999 - DECEMBER 1999
ACTUAL**

<u>PLANT/UNIT</u>	<u>12 MO ADJ ACTUAL PERFORMANCE</u>	<u>WEIGHTING FACTOR %</u>	<u>UNIT POINTS</u>	<u>WEIGHTED UNIT POINTS</u>
GANNON 5	71.9% EAF	4.54%	-1.910	-0.087
GANNON 6	63.7% EAF	6.83%	-10.000	-0.683
BIG BEND 1	77.4% EAF	7.19%	-3.542	-0.255
BIG BEND 2	81.1% EAF	6.40%	-1.834	-0.117
BIG BEND 3	68.5% EAF	8.29%	-5.274	-0.437
BIG BEND 4	79.1% EAF	4.32%	-10.000	-0.432
GANNON 5	10670 ANOHR	8.84%	-10.000	-0.884
GANNON 6	10836 ANOHR	9.79%	-10.000	-0.979
BIG BEND 1	10083 ANOHR	10.68%	2.590	0.277
BIG BEND 2	9983 ANOHR	11.12%	6.563	0.730
BIG BEND 3	9826 ANOHR	12.22%	2.917	0.356
BIG BEND 4	10014 ANOHR	<u>9.78%</u>	-0.060	<u>-0.006</u>
		100.00%		-2.517

GPIF REWARD

(\$1,151,236)

TAMPA ELECTRIC COMPANY

GPIF TARGET AND RANGE SUMMARY

JANUARY 1999 - DECEMBER 1999

EQUIVALENT AVAILABILITY

<u>PLANT/UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>EAF TARGET (%)</u>	<u>EAF MAX. (%)</u>	<u>RANGE MIN. (%)</u>	<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>	<u>EAF ADJUSTED ACTUAL %</u>	<u>ACTUAL FUEL SAVINGS/LOSS (\$000)</u>
GANNON 5	4.54%	73.6	78.0	64.7	619.6	(1,412.2)	71.9%	(132.5)
GANNON 6	6.83%	71.5	75.2	64.2	932.4	(1,760.3)	63.7%	(1,760.3)
BIG BEND 1	7.19%	79.8	83.3	72.9	980.7	(2,247.2)	77.4%	491.7
BIG BEND 2	6.40%	82.2	85.2	76.2	873.4	(1,598.3)	81.1%	(238.1)
BIG BEND 3	8.29%	72.5	76.3	64.9	1,130.7	(2,249.4)	68.5%	(1,411.3)
BIG BEND 4	<u>4.32%</u>	85.0	87.1	80.7	<u>589.0</u>	<u>(1,374.7)</u>	79.1%	(1,142.4)
GPIF SYSTEM	37.57%				5,125.8	(10,642.1)		

AVERAGE NET OPERATING HEAT RATE
FOR
GPIF COAL GENERATING UNITS

<u>PLANT/UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>ANOHR Btu/kwh</u>	<u>TARGET NOF</u>	<u>ANOHR TARGET RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>	<u>ACTUAL ADJUSTED ANOHR</u>	<u>ACTUAL FUEL SAVINGS/LOSS (\$000)</u>
				<u>MIN.</u>	<u>MAX.</u>				
GANNON 5	8.84%	10150	90.7	9631	10669	1,207.0	(1,207.0)	10670	0.0
GANNON 6	9.79%	10401	90.3	10021	10781	1,336.0	(1,336.0)	10836	(168.5)
BIG BEND 1	10.68%	10230	76.8	9877	10583	1,457.0	(1,457.0)	10083	375.5
BIG BEND 2	11.12%	10247	75.1	9884	10610	1,517.0	(1,517.0)	9983	1,070.8
BIG BEND 3	12.22%	9992	84.5	9605	10379	1,668.0	(1,668.0)	9826	(287.4)
BIG BEND 4	<u>9.78%</u>	9938	94.7	9695	10181	<u>1,336.0</u>	<u>(1,336.0)</u>	10014	0.0
GPIF SYSTEM	62.43%					8,521.0	(8,521.0)		

**TAMPA ELECTRIC COMPANY
ACTUAL UNIT PERFORMANCE DATA
JANUARY 1999 - DECEMBER 1999**

<u>PLANT / UNIT</u>	<u>ACTUAL EAF %</u>	<u>ADJUSTMENTS (1) EAF %</u>	<u>EAF ADJUSTED ACTUAL %</u>
GANNON 5	69.4	2.5	71.9
GANNON 6	57.3	6.4	63.7
BIG BEND 1	78.9	-1.5	77.4
BIG BEND 2	81.4	-0.3	81.1
BIG BEND 3	65.2	3.3	68.5
BIG BEND 4	73.0	6.1	79.1

<u>PLANT / UNIT</u>	<u>ACTUAL ANOHR Btu/kwh</u>	<u>ADJUSTMENTS (2) TO ANOHR Btu/kwh</u>	<u>ANOHR ADJUSTED ACTUAL Btu/kwh</u>
GANNON 5	11029	-359	10670
GANNON 6	10971	-135	10836
BIG BEND 1	10236	-153	10083
BIG BEND 2	10072	-89	9983
BIG BEND 3	10006	-180	9826
BIG BEND 4	10211	-197	10014

(1) Documentation of adjustments to Actual EAF on pages 7 - 12

(2) Documentation of adjustments to Actual ANOHR on pages 13 - 18

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
GANNON UNIT NO. 5
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 4.54%

	<u>12 MO TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	73.6	69.4	71.9
P.O.H.	504.0	790.3	504.0
F.O.H. + E.F.O.H	1596.0	1271.9	1317.6
M.O.H. + E.M.O.H	212.0	619.0	641.2
P.O.F.	5.8	9.0	5.8
E.F.O.F.	18.2	14.5	15.0
E.M.O.F.	2.4	7.1	7.3

-1.910 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{P.H. - TGT\ POH}{P.H. - ACT\ POH} \times (FOH + EFOH + MOH + EMOH) = \text{ADJUSTED EUOH}$$

$$\frac{8760 - 504}{8760 - 790} \times (573.2 + 698.7 + 494.0 + 124.9) = 1958.8$$

$$\frac{504 + 1958.8}{8760} \times 100 = 28.1$$

$$100.0 - 28.1 = 71.9$$

PH = PERIOD HOURS
EAF = EQUIVALENT AVAILABILITY FACTOR
POH = PLANNED OUTAGE HOURS
FOH = FORCED OUTAGE HOURS
MOH = MAINTENANCE OUTAGE HOURS
POF = PLANNED OUTAGE FACTOR
EFOF = EQUIVALENT FORCED OUTAGE FACTOR
EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
GANNON UNIT NO. 6
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 6.83%

	<u>12 MO TARGET</u>	<u>12 MO ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	71.5	57.3	63.7
P.O.H.	1176.0	1934.2	1176.0
F.O.H. + E.F.O.H	1001.0	1201.1	1334.5
M.O.H. + E.M.O.H	318.0	603.4	670.4
P.O.F.	13.4	22.1	13.4
E.F.O.F.	11.4	13.7	15.2
E.M.O.F.	3.6	6.9	7.7

-10.000 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{P.H. - TGT POH}{P.H. - ACT POH} \times (FOH + EFOH + MOH + EMOH) = \text{ADJUSTED EUOH}$$

$$\frac{8760 - 1176}{8760 - 1934} \times (849.8 + 351.3 + 474.2 + 129.2) = 2004.9$$

$$\frac{1176 + 2005}{8760} \times 100 = 36.3$$

$$100.0 - 36.3 = 63.7$$

PH = PERIOD HOURS
EAF = EQUIVALENT AVAILABILITY FACTOR
POH = PLANNED OUTAGE HOURS
FOH = FORCED OUTAGE HOURS
MOH = MAINTENANCE OUTAGE HOURS
EUOH = EQUIVALENT UNPLANNED OUTAGE HOURS
POF = PLANNED OUTAGE FACTOR
EFOF = EQUIVALENT FORCED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 1
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 7.19%

	<u>12 MO TARGET</u>	<u>12 MO ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	79.8	78.9	77.4
P.O.H.	336.0	172.6	336.0
F.O.H. + E.F.O.H	835.0	960.4	942.1
M.O.H. + E.M.O.H	599.0	719.2	705.5
P.O.F.	3.8	2.0	3.8
E.F.O.F.	9.5	11.0	10.8
E.M.O.F.	6.8	8.2	8.1

-3.542 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{P.H. - TGT POH}{P.H. - ACT POH} \times (FOH + EFOH + MOH + EMOH) = ADJUSTED EUOH$$

$$\frac{8760 - 336}{8760 - 173} \times (462.9 + 497.5 + 413.9 + 305.3) = 1647.6$$

$$\frac{336 + 1648}{8760} \times 100 = 22.6$$

$$100.0 - 22.6 = 77.4$$

PH = PERIOD HOURS
EAF = EQUIVALENT AVAILABILITY FACTOR
POH = PLANNED OUTAGE HOURS
FOH = FORCED OUTAGE HOURS
MOH = MAINTENANCE OUTAGE HOURS
EUOH = EQUIVALENT UNPLANNED OUTAGE HOURS
POF = PLANNED OUTAGE FACTOR
EFOF = EQUIVALENT FORCED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 2
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 6.40%

	<u>12 MO TARGET</u>	<u>12 MO ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	82.2	81.4	81.1
P.O.H.	336.0	306.1	336.0
F.O.H. + E.F.O.H	807.0	802.5	799.7
M.O.H. + E.M.O.H	420.0	521.8	520.0
P.O.F.	3.8	3.5	3.8
E.F.O.F.	9.2	9.2	9.1
E.M.O.F.	4.8	6.0	5.9

-1.834 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{\text{P.H.} - \text{TGT POH}}{\text{P.H.} - \text{ACT POH}} \times (\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH}) = \text{ADJUSTED EUOH}$$

$$\frac{8760 - 336}{8760 - 306} \times (407.8 + 394.7 + 240.7 + 281.1) = 1319.6$$

$$\frac{336 + 1320}{8760} \times 100 = 18.9$$

$$100.0 - 18.9 = 81.1$$

PH = PERIOD HOURS
EAF = EQUIVALENT AVAILABILITY FACTOR
POH = PLANNED OUTAGE HOURS
FOH = FORCED OUTAGE HOURS
MOH = MAINTENANCE OUTAGE HOURS
EUOH = EQUIVALENT UNPLANNED OUTAGE HOURS
POF = PLANNED OUTAGE FACTOR
EFOF = EQUIVALENT FORCED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 3
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 8.29%

	<u>12 MO TARGET</u>	<u>12 MO ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	72.5	65.2	68.5
P.O.H.	1008.0	1384.2	1008.0
F.O.H. + E.F.O.H	953.0	1434.1	1507.2
M.O.H. + E.M.O.H	449.0	233.0	244.9
P.O.F.	11.5	15.8	11.5
E.F.O.F.	10.9	16.4	17.2
E.M.O.F.	5.1	2.7	2.8

-5.274 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{P.H. - TGT\ POH}{P.H. - ACT\ POH} \times (FOH + EFOH + MOH + EMOH) = ADJUSTED\ EUOH$$

$$\frac{8760 - 1008}{8760 - 1384} \times (1084.8 + 349.3 + 1.8 + 231.2) = 1752.1$$

$$\frac{1008 + 1752}{8760} \times 100 = 31.5$$

$$100.0 - 31.5 = 68.5$$

- PH = PERIOD HOURS
- EAF = EQUIVALENT AVAILABILITY FACTOR
- POH = PLANNED OUTAGE HOURS
- FOH = FORCED OUTAGE HOURS
- MOH = MAINTENANCE OUTAGE HOURS
- EUOH = EQUIVALENT UNPLANNED OUTAGE HOURS
- POF = PLANNED OUTAGE FACTOR
- EFOF = EQUIVALENT FORCED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 4
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 4.32%

	<u>12 MO TARGET</u>	<u>12 MO ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	85.0	73.0	79.1
P.O.H.	504.0	1138.8	504.0
F.O.H. + E.F.O.H	375.0	612.9	664.0
M.O.H. + E.M.O.H	435.0	610.1	660.9
P.O.F.	5.8	13.0	5.8
E.F.O.F.	4.3	7.0	7.6
E.M.O.F.	5.0	7.0	7.5

-10.000 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{\text{P.H.} - \text{TGT POH}}{\text{P.H.} - \text{ACT POH}} \times (\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH}) = \text{ADJUSTED EUOH}$$

$$\frac{8760 - 504}{8760 - 1139} \times (146.3 + 466.6 + 456.8 + 153.3) = 1324.9$$

$$\frac{504 + 1325}{8760} \times 100 = 20.9$$

$$100.0 - 20.9 = 79.1$$

- PH = PERIOD HOURS
- EAF = EQUIVALENT AVAILABILITY FACTOR
- POH = PLANNED OUTAGE HOURS
- FOH = FORCED OUTAGE HOURS
- MOH = MAINTENANCE OUTAGE HOURS
- EUOH = EQUIVALENT UNPLANNED OUTAGE HOURS
- POF = PLANNED OUTAGE FACTOR
- EFOF = EQUIVALENT FORCED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
GANNON UNIT NO. 5
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 8.84%

	<u>12 MO TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10150	11029
STA. NET GEN. (GWH)	1279.3	1170.2
OPER. Btu (10 ⁹ btu)	12985.938	12905.871
NET OUTPUT FACTOR	90.8	73.0

-10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-20.2694) + 11988.9 = ANOHR

$$\begin{array}{rclcl}
 73.0 & (-20.2694) + 11988.9 & = & & 10509 \\
 11029 & - & 10509 & = & 520 \\
 10150 & + & 520 & = & 10670
 \end{array}$$

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
GANNON UNIT NO. 6
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 9.79%

	<u>12 MO. TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10401	10971
STA. NET GEN. (GWH)	2006.5	1500.4
OPER. Btu (10 ⁹ btu)	20868.624	16461.468
NET OUTPUT FACTOR	90.3	72.9

-10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION $NOF(-7.7732) + 11102.5 = ANOHR$

72.9	-	(-7.7732)	+	11102.5	=	10536
10971	-	10536	=	435		
10401	+	435	=	10836		

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 1
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999**

WEIGHTING FACTOR = 10.68%

	<u>12 MO. TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10230	10236
STA. NET GEN. (GWH)	2370.5	2220.1
OPER. Btu (10 ⁹ btu)	24250.159	22724.188
NET OUTPUT FACTOR	76.8	68.1

2.590 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION $NOF(-17.5714) + 11579.4 = ANOHR$

68.1	(-17.5714)	+	11579.4	=	10383
10236	-		10383	=	-147
10230	+		-147	=	10083

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 2
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 11.12%

	<u>12 MO. TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10247	10072
STA. NET GEN. (GWH)	2404.5	2235.4
OPER. Btu (10 ⁹ btu)	24640.065	22514.633
NET OUTPUT FACTOR	75.1	70.2

6.563 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-18.2412) + 11617.3 = ANOHR

70.2	(-18.2412)	+	11617.3	=	10336
10072	-		10336	=	-264
10247	+		-264	=	9983

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 3
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 12.22%

	<u>12 MO. TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	9992	10006
STA. NET GEN. (GWH)	2503.0	2094.6
OPER. Btu (10 ⁹ btu)	25009.282	20958.810
NET OUTPUT FACTOR	84.5	78.4

2.917 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION $NOF(-29.4092) + 12476.8 = ANOHR$

78.4	-	(-29.4092)	+	12476.8	=	10172
10006	-			10172	=	-166
9992	+			-166	=	9826

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 4
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 9.78%

	<u>12 MO TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	9938	10211
STA. NET GEN. (GWH)	3196.8	2506.2
OPER. Btu (10 ⁹ btu)	31770.279	25590.680
NET OUTPUT FACTOR	94.6	80.2

-0.060 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION $NOF(-13.6351) + 11229.4 = ANOHR$

80.2	-	(-13.6351)	+	11229.4	=	10135
10211	-	10135	=	76		
9938	+	76	=	10014		

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

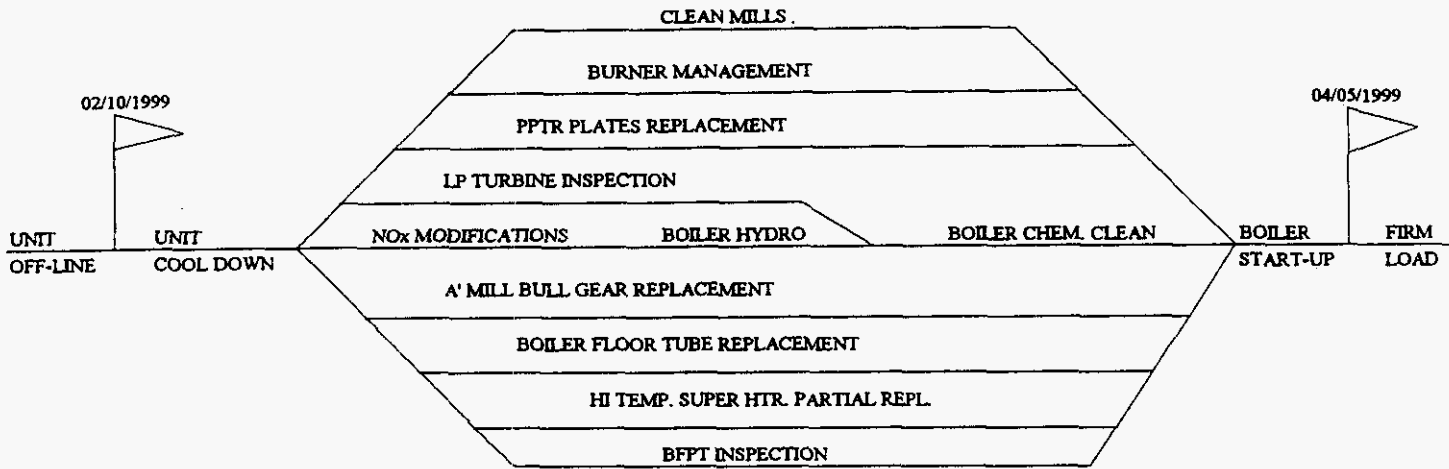
TAMPA ELECTRIC COMPANY
GPIF PLANNED OUTAGE SCHEDULE - ACTUAL
JANUARY 1999 - DECEMBER 1999

<u>STATION/UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE REASON</u>
** BIG BEND 1	OCT 08 - OCT 15	SCRUBBER TIE IN
** BIG BEND 2	OCT 18 - OCT 30	SCRUBBER TIE IN
BIG BEND 3	FEB 10 - APR 05	NOx MODIFICATIONS LP TURBINE INSP 'A' BULL GEAR REPL BOILER FLOOR TUBES HI TEMP SUPERHEAT-PARTL PPTR PLATES BURNER MANAGEMENT BFPT INSPECTION BOILER HYDRO & CHEM CLEAN MILL CLEANING
BIG BEND 4	OCT 30 - DEC 18	RH FIRST PENDANT ASSY. HP TURBINE INSP LP TURBINE BORESonic INSP GENERATOR INSP FGD INLET DUCT TURBINE VALVE INSP & REPAIR BOILER CIRC. PUMP OVERHAUL BFPT INSPECTION BOILER HYDRO & CHEM CLEAN BOTTOM ASH HOPPERS
GANNON 5	APR 12 - MAY 15	NOx MODIFICATIONS BOILER HYDRO & CHEM CLEAN LP TURBINE INSP PPTR PLATES BURNER MANAGEMENT MILL CLEANING TUNNEL CLEANING BOILER FLOOR TUBES HI TEMP SUPERHEAT-PARTL BFPT INSPECTION
GANNON 6	MAR 26 - JUN 15	CLASSIFIER MODIFICATIONS BOILER HYDRO & CHEM CLEAN HP TURBINE BORESonic INSP PRECIPITATOR OUTLET DUCT BURNER MANAGEMENT PULV. SHELL, HEAD, & THROAT REPL. NOx MODIFICATIONS GENERATOR INSP REPLACE GAS DUCT TUNNEL CLEANING

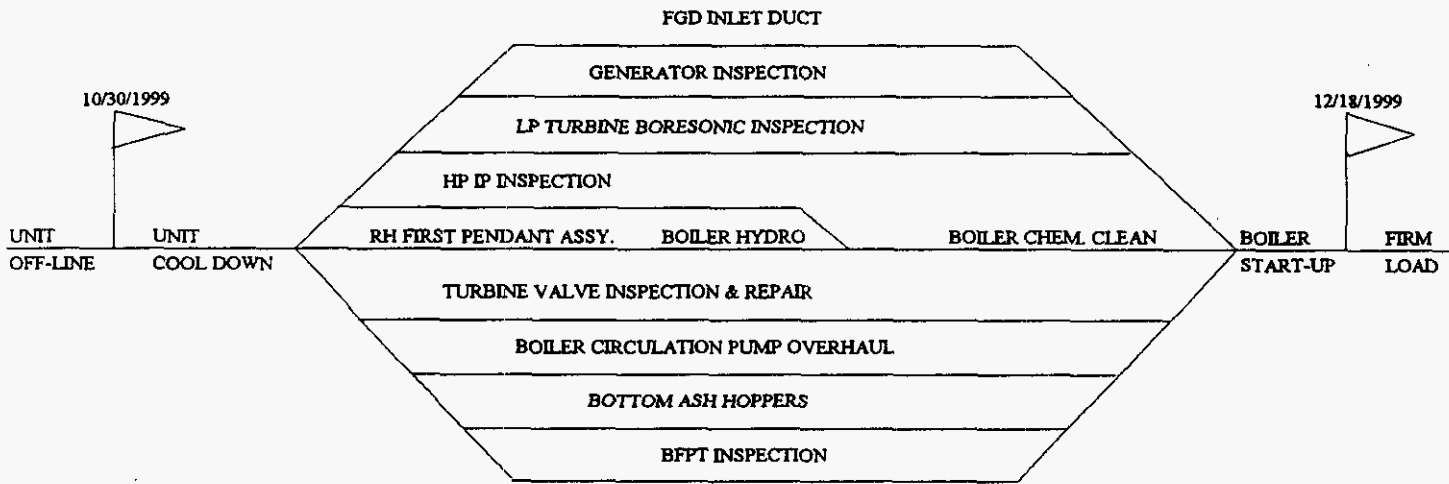
Milestone or Critical Path Charts of actual schedule are included on pages 20 & 21.

* Start / End dates outside of GPIF period.

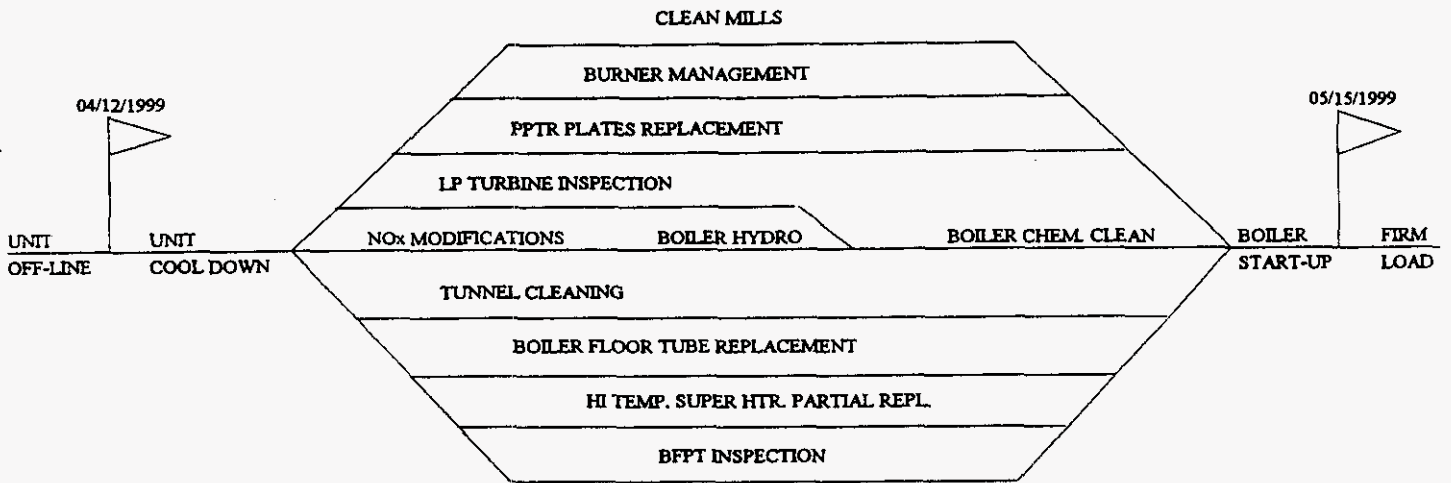
** Outage is less than FOUR weeks in duration and a CPM was not included for this unit.



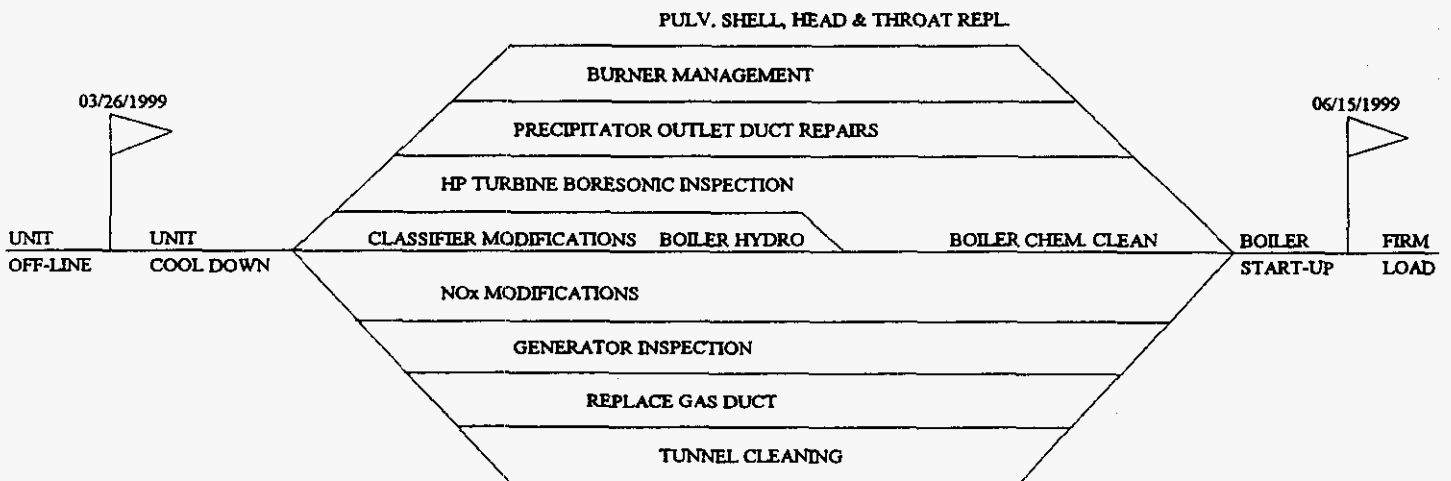
TAMPA ELECTRIC COMPANY
BIG BEND UNIT NUMBER 3
PLANNED OUTAGE 1999
ACTUAL CPM
03/23/2000



TAMPA ELECTRIC COMPANY
BIG BEND UNIT NUMBER 4
PLANNED OUTAGE 1999
ACTUAL CPM
03/23/2000



TAMPA ELECTRIC COMPANY
GANNON UNIT NUMBER 5
PLANNED OUTAGE 1999
ACTUAL CPM
03/23/2000



TAMPA ELECTRIC COMPANY
GANNON UNIT NUMBER 6
PLANNED OUTAGE 1999
ACTUAL CPM
03/23/2000

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 1999 - DECEMBER 1999
GANNON 5

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	619.6	78.0	+10	1,207.0	9631
+9	557.6	77.6	+9	1,086.3	9675
+8	495.7	77.1	+8	965.6	9720
+7	433.7	76.7	+7	844.9	9764
+6	371.8	76.2	+6	724.2	9809
+5	309.8	75.8	+5	603.5	9853
+4	247.8	75.4	+4	482.8	9897
+3	185.9	74.9	+3	362.1	9942
+2	123.9	74.5	+2	241.4	9986
+1	62.0	74.0	+1	120.7	10031
0	0.0	73.6	0	0.0	10075
				0.0	10150
				0.0	10225
-1	(141.2)	72.7	-1	(120.7)	10269
-2	(282.4)	71.8	-2	(241.4)	10314
-3	(423.7)	70.9	-3	(362.1)	10358
-4	(564.9)	70.0	-4	(482.8)	10403
-5	(706.1)	69.2	-5	(603.5)	10447
-6	(847.3)	68.3	-6	(724.2)	10491
-7	(988.5)	67.4	-7	(844.9)	10536
-8	(1,129.8)	66.5	-8	(965.6)	10580
-9	(1,271.0)	65.6	-9	(1,086.3)	10625
-10	(1,412.2)	64.7	-10	(1,207.0)	10669

EAF POINTS
1,910

Adjusted EAF
71.9

AHR POINTS
10,000

Adjusted Actual ANOHR
10670

Weighting Factor = 4.54%

Weighting Factor = 8.84%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 1999 - DECEMBER 1999
GANNON 6

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$ X 1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$ X 1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	619.6	75.2	+10	1,336.0	10021
+9	557.6	74.8	+9	1,202.4	10052
+8	495.7	74.5	+8	1,068.8	10082
+7	433.7	74.1	+7	935.2	10113
+6	371.8	73.7	+6	801.6	10143
+5	309.8	73.4	+5	668.0	10174
+4	247.8	73.0	+4	534.4	10204
+3	185.9	72.6	+3	400.8	10235
+2	123.9	72.2	+2	267.2	10265
+1	62.0	71.9	+1	133.6	10296
0	0.0	71.5	0	0.0	10326
					10401
					10476
-1	(141.2)	70.8	-1	(133.6)	10507
-2	(282.4)	70.0	-2	(267.2)	10537
-3	(423.7)	69.3	-3	(400.8)	10568
-4	(564.9)	68.6	-4	(534.4)	10598
-5	(706.1)	67.9	-5	(668.0)	10629
-6	(847.3)	67.1	-6	(801.6)	10659
-7	(988.5)	66.4	-7	(935.2)	10690
-8	(1,129.8)	65.7	-8	(1,068.8)	10720
-9	(1,271.0)	64.9	-9	(1,202.4)	10751
-10	(1,412.2)	64.2	-10	(1,336.0)	10781

← **EAF POINTS -10,000** → **Adjusted EAF 63.7** →

Weighting Factor = 6.83%

← **AHR POINTS -10,000** → **Adjusted Actual ANGR 10836** →

Weighting Factor = 9.79%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 1999 - DECEMBER 1999

BIG BEND 1

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	980.7	83.3	+10	1,457.0	9877
+9	882.6	83.0	+9	1,311.3	9905
+8	784.6	82.6	+8	1,165.6	9933
+7	686.5	82.3	+7	1,019.9	9960
+6	588.4	81.9	+6	874.2	9988
+5	490.4	81.6	+5	728.5	10016
+4	392.3	81.2	+4	582.8	10044
+3	294.2	80.9	+3	437.1	10072
+2	196.1	80.5	+2	291.4	10099
+1	98.1	80.2	+1	145.7	10127
0	0.0	79.8	0	0.0	10155
-1	224.7	79.1	-1	(145.7)	10230
-2	449.4	78.4	-2	(291.4)	10305
-3	674.2	77.7	-3	(437.1)	10333
-4	898.9	77.0	-4	(582.8)	10361
-5	1,123.6	76.4	-5	(728.5)	10388
-6	1,348.3	75.7	-6	(874.2)	10416
-7	1,573.0	75.0	-7	(1,019.9)	10444
-8	1,797.8	74.3	-8	(1,165.6)	10472
-9	2,022.5	73.6	-9	(1,311.3)	10500
-10	2,247.2	72.9	-10	(1,457.0)	10527
					10555
					10583

AHR
POINTS
2,500

Adjusted
Actual
ANQHR
10083

EAF
POINTS
3,542

Adjusted
EAF
77.4

Weighting Factor = 7.19%

Weighting Factor = 10.68%

TAMPA ELECTRIC COMPANY
 GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 1999 - DECEMBER 1999

BIG BEND 2

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	873.4	85.2	+10	1,517.0	9884
+9	786.1	84.9	+9	1,365.3	9913
+8	698.7	84.6	+8	1,213.6	9942
+7	611.4	84.3	+7	1,061.9	9970
+6	524.0	84.0	+6	910.2	9999
+5	436.7	83.7	+5	758.5	10028
+4	349.4	83.4	+4	606.8	10057
+3	262.0	83.1	+3	455.1	10086
+2	174.7	82.8	+2	303.4	10114
+1	87.3	82.5	+1	151.7	10143
0	0.0	82.2	0	0.0	10172
					10247
					10322
-1	(159.8)	81.6	-1	(151.7)	10351
-2	(319.7)	81.0	-2	(303.4)	10380
-3	(479.5)	80.4	-3	(455.1)	10408
-4	(639.3)	79.8	-4	(606.8)	10437
-5	(799.2)	79.2	-5	(758.5)	10466
-6	(959.0)	78.6	-6	(910.2)	10495
-7	(1,118.8)	78.0	-7	(1,061.9)	10524
-8	(1,278.6)	77.4	-8	(1,213.6)	10552
-9	(1,438.5)	76.8	-9	(1,365.3)	10581
-10	(1,598.3)	76.2	-10	(1,517.0)	10610
Weighting Factor =		6.40%	Weighting Factor =		11.12%

EAF POINTS
-1.834

Adjusted EAF
81.1

AHR POINTS
6.563

Adjusted Actual ANOHR
9983

TAMPA ELECTRIC COMPANY
 GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 1999 - DECEMBER 1999

BIG BEND 3

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	1,130.7	76.3	+10	1,668.0	9605
+9	1,017.6	75.9	+9	1,501.2	9636
+8	904.6	75.5	+8	1,334.4	9667
+7	791.5	75.2	+7	1,167.6	9699
+6	678.4	74.8	+6	1,000.8	9730
+5	565.4	74.4	+5	834.0	9761
+4	452.3	74.0	+4	667.2	9792
+3	339.2	73.6	+3	500.4	9823
+2	226.1	73.3	+2	333.6	9855
+1	113.1	72.9	+1	166.8	9886
0	0.0	72.5	0	0.0	9917
-1	224.9	71.7	-1	(166.8)	9992
-2	449.9	71.0	-2	(333.6)	10067
-3	674.8	70.2	-3	(500.4)	10098
-4	899.8	69.5	-4	(667.2)	10129
-5	1,124.7	68.7	-5	(834.0)	10161
-6	1,349.6	67.9	-6	(1,000.8)	10192
-7	1,574.6	67.2	-7	(1,167.6)	10223
-8	1,799.5	66.4	-8	(1,334.4)	10254
-9	2,024.5	65.7	-9	(1,501.2)	10285
-10	2,249.4	64.9	-10	(1,668.0)	10317

AHR POINTS
2,917

Adjusted Actual ANOHR
9826

EAF POINTS
-5.274

Adjusted EAF
68.5

Weighting Factor = 8.29%

Weighting Factor = 12.22%

TAMPA ELECTRIC COMPANY
 GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 1999 - DECEMBER 1999

BIG BEND 4

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	589.0	87.1	+10	1,336.0	9695
+9	530.1	86.9	+9	1,202.4	9712
+8	471.2	86.7	+8	1,068.8	9729
+7	412.3	86.5	+7	935.2	9745
+6	353.4	86.3	+6	801.6	9762
+5	294.5	86.1	+5	668.0	9779
+4	235.6	85.8	+4	534.4	9796
+3	176.7	85.6	+3	400.8	9813
+2	117.8	85.4	+2	267.2	9829
+1	58.9	85.2	+1	133.6	9846
0	0.0	85.0	0	0.0	9863
-1	137.5	84.6	-1	(133.6)	9938
-2	274.9	84.1	-2	(267.2)	10013
-3	412.4	83.7	-3	(400.8)	10030
-4	549.9	83.3	-4	(534.4)	10047
-5	687.4	82.9	-5	(668.0)	10063
-6	824.8	82.4	-6	(801.6)	10080
-7	962.3	82.0	-7	(935.2)	10114
-8	1,099.8	81.6	-8	(1,068.8)	10131
-9	1,237.2	81.1	-9	(1,202.4)	10147
-10	1,374.7	80.7	-10	(1,336.0)	10164
-10					10181

← EAF POINTS -10.000 →	← Adjusted EAF 79.1 →	← AHR POINTS -0.060 →	← Adjusted Actual ANOHR 10014 →
-------------------------------	------------------------------	------------------------------	--

Weighting Factor =	4.32%	Weighting Factor =	9.78%
--------------------	-------	--------------------	-------

TAMPA ELECTRIC COMPANY
COMPARISON OF GPIF TARGETS VS. PRIOR PERIOD ACTUAL PERFORMANCE
JANUARY 1999 - DECEMBER 1999

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD JAN 99 - DEC 99			ACTUAL PERFORMANCE JAN 99 - DEC 99		
			POF	EUOF	EUOR	POF	EUOF	EUOR
BIG BEND 1	7.19%	19.1	3.8	16.4	17.0	2.0	19.2	19.6
BIG BEND 2	6.40%	17.0	3.8	14.0	14.6	3.5	15.1	15.7
BIG BEND 3	8.29%	22.1	11.5	16.0	18.1	15.8	19.0	22.6
BIG BEND 4	4.32%	11.5	5.8	9.2	9.8	13.0	14.0	16.0
GANNON 5	4.54%	12.1	5.8	20.6	21.9	9.0	21.6	23.7
GANNON 6	6.83%	18.2	13.4	15.1	17.4	22.1	20.6	26.4
	37.57%	100.0						
GPIF SYSTEM WEIGHTED AVERAGE			7.7	15.3	16.7	11.1	18.4	20.9
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY				<u>76.9</u>			<u>70.5</u>	
			3 PERIOD AVERAGE			3 PERIOD AVERAGE		
			POF	EUOF	EUOR	EAF		
			8.9	16.8	18.5	74.3		

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE TARGET	ADJUSTED ACTUAL HEAT RATE JAN 99 - DEC 99
GANNON 5	8.84%	14.2	10150	11029
GANNON 6	9.79%	15.7	10401	10971
BIG BEND 1	10.68%	17.1	10230	10236
BIG BEND 2	11.12%	17.8	10247	10072
BIG BEND 3	12.22%	19.6	9992	10006
BIG BEND 4	9.78%	15.7	9938	10211
	62.43%	100.0		
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			10156	10385

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS CALCULATION
JANUARY 1999 - DECEMBER 1999**

Points are calculated according to the formula:

$$\text{GPIP} = \sum_{i=1}^n [(a_i) (\text{EAP}_i) + (e_i) (\text{AHRP}_i)]$$

Where:

$i=1,n$

a = Unit equivalent availability weighting factor

EAP = Unit equivalent availability points

e = Station average heat rate weighting factor

AHRP = Station average heat rate points

Weighting factors and point values are listed in separate tables.

GPIP =	4.54%	*	(GN 5 EAP)	+	6.83%	*	(GN 6 EAP)	+	7.19%	*	(BB 1 EAP)
.	6.40%	*	(BB 2 EAP)	+	8.29%	*	(BB 3 EAP)	+	4.32%	*	(BB 4 EAP)
.	8.84%	*	(GN 5 AHRP)	+	9.79%	*	(GN 6 AHRP)	+	10.68%	*	(BB 1 AHRP)
.	11.12%	*	(BB 2 AHRP)	+	12.22%	*	(BB 3 AHRP)	+	9.78%	*	(BB 4 AHRP)

GPIP =	4.54%	*	-1.910	+	6.83%	*	-10.000	+	7.19%	*	-3.542
.	6.40%	*	-1.834	+	8.29%	*	-5.274	+	4.32%	*	-10.000
.	8.84%	*	-10.000	+	9.79%	*	-10.000	+	10.68%	*	2.590
.	11.12%	*	6.563	+	12.22%	*	2.917	+	9.78%	*	-0.060

GPIP =	-0.087	+	-0.683	+	-0.255	+	-0.117
.	-0.437	+	-0.432	+	-0.884	+	-0.979
.	0.277	+	0.730	+	0.356	+	-0.006

GPIP = -2.517 POINTS

REWARD/PENALTY dollar amounts of the Generating Performance Incentive Factor (GPIF) are determined directly from the table for the corresponding Generating Performance Points (GPIP) - see page 2.

GPIP = (\$1,151,236)

AUSLEY & McMULLEN

ORIGINAL

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560

April 3, 2000

HAND DELIVERED

RECEIVED-FPSC
RECORDS AND REPORTING
00 APR -3 PM 3:12

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

Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor; FPSC Docket No. 000001-EI

Dear Ms. Bayo:

Enclosed for filing in the above docket on behalf of Tampa Electric Company are the original and ten (10) copies of each of the following:

- 1. Prepared Direct Testimony and Exhibit (KOZ-1) of Karen O. Zwolak regarding Fuel and Purchased Power Cost Recovery and Capacity Cost Recovery Final True-Ups for the period January 1999 through December 1999. 04065-00
2. Prepared Direct Testimony and Exhibit (BSB-1) of Brian S. Buckley regarding Generating Performance Incentive Factor (GPIF) for the period January 1999 through December 1999. 04066-00

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,

James D. Beasley

- AFA
APP
CAF
CMU
GTH
EAO
LEG
MAS
OPC
RRR
SEC
WAW
OTH

JDB/pp
Enclosures

RECEIVED & FILED

cc: All Parties of Record (w/enc.)

FPSC-BUREAU OF RECORDS

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Testimony and Exhibits, filed on behalf of Tampa Electric company, has been furnished by U. S. Mail or hand delivery (*) on this 3rd day of April 2000 to the following:

Mr. Wm. Cochran Keating, IV*
Staff Counsel
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0863

Mr. James A. McGee
Senior Counsel
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Mr. Joseph A. McGlothlin
Ms. Vicki Gordon Kaufman
McWhirter, Reeves, McGlothlin, Davidson,
Decker, Kaufman, Arnold & Steen, P.A.
117 S. Gadsden Street
Tallahassee, FL 32301

Mr. Norman Horton
Messer Caparello & Self
P. O. Box 1876
Tallahassee, FL 32302

Mr. John W. McWhirter
McWhirter, Reeves, McGlothlin, Davidson,
Decker, Kaufman, Arnold & Steen, P.A.
Post Office Box 3350
Tampa, FL 33601

Ms. Susan Ritenour
Gulf Power Company
One Energy Place
Pensacola, FL 32520

Mr. Matthew M. Childs
Steel Hector & Davis
Suite 601
215 South Monroe Street
Tallahassee, FL 32301

Mr. Jeffrey A. Stone
Beggs & Lane
Post Office Box 12950
Pensacola, FL 32576

Mr. Kenneth A. Hoffman
Rutledge, Ecenia, Undewood,
Purnell & Hoffman
Post Office Box 551
Tallahassee, FL 32302-0551

Mr. John Roger Howe
Deputy Public Counsel
Office of Public Counsel
111 W. Madison Street, Suite 812
Tallahassee, FL 32399-1400


ATTORNEY