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July 9, 1999

HAND DELIVERED

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. 990001-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 supplemental Prepared Direct Testimony and Exhibit (CTAH-1) of Chonta T. A. Haynes regarding Generating Performance Incentive Factor (GPIF) for the period April 1998 – September 1998. This testimony and exhibit were inadvertently omitted from the company's April 1, 1999 filing.

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

JDB/pp
Enclosures

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

FA 2
PP
CAF
CMU
CTR
EAG Bohrmann 1
LEG 3+org
MAS
OPC
RRR
SEC 1
WAW
OTH

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing Testimony and Exhibit (CTAH-1), filed on behalf of Tampa Electric Company, has been furnished by U. S. Mail or hand delivery (*) on this 9th day of July, 1999 to the following:

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ATTORNEY

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

CHONTA T.A. HAYNES

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

A. My name is Chonta T.A. Haynes 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 am an Electrical Engineering graduate of Georgia Institute of Technology and the University of Miami (FL). My bachelors degree was obtained in 1983 from Georgia Tech and I received my masters degree in 1991 from U of M. My career spans 15 years with various engineering positions in the utility and automotive industries. I am currently employed by Tampa Electric Company as a Senior Engineer in the Operation Services group.

Q. What are your current responsibilities?

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

Q. What is the purpose of your testimony?

A. My testimony presents the actual performance results from unit equivalent availability and station heat rate used to determine the Generating Performance Incentive Factor (GPIF) for the period April 1998 through September 1998. I will also compare these results to the targets established prior to the beginning of the period.

Q. Have you prepared an exhibit with the results for this six month period?

A. Yes. The exhibit entitled "Tampa Electric Company, April 1998 - September 1998, Generating Performance Incentive Factor Results" consists of 28 pages and is filed with this testimony (Have identified as Exhibit CTAH-1).

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

A. Yes, I have. This is shown on page 4 of my exhibit. Based upon -.986 GPIF points, the result is a penalty amount of $229,924 for the period.

Q. Please proceed with your review of the actual results for the April 1998 - September 1998 period.

A. On page 3 of my exhibit, the actual average common equity for the period is shown on line 8 as $1,162,139,343. This produces the maximum penalty or reward figure of $2,331,887 as shown on line 15, page 3.

Q. Will you explain how you arrived at the actual equivalent availability results for the six units included within the GPIF?

A. Yes, I will. Operating data on each of our units is filed monthly with the Florida Public Service Commission on the Actual Unit Performance data form. Additionally, outage information is reported to the Commission on a monthly basis. A summary of this data for the six months provides the basis for the GPIF.

Q. Are the equivalent availability results shown on page 6, column 2, directly applicable to the GPIF table?

A. Not exactly. Adjustments to equivalent availability may be required as noted in section 4.3.3 of the GPIF Manual. The actual equivalent availability including the required adjustment is shown on page 6 of my exhibit. The necessary adjustments as prescribed in the GPIF Manual are further defined by a letter dated October 23, 1981, from Mr. J.H. Hoffsis of the Commission's Staff. The adjustments for each unit are as follows:

Gannon Unit No. 5

On this unit, no planned outage hours were originally scheduled to fall within the Summer 1998 period and none in fact occurred. Consequently, the actual equivalent availability requires no adjustment as shown on page 7 of my exhibit.

Gannon Unit No. 6

On this unit, 336 planned outage hours were originally scheduled to fall within the Summer 1998 period. Due to a revision of the outage schedule, this work was accomplished prior to the beginning of the period, and no planned outage hours fell within the period. Consequently, the actual

equivalent availability of 82.0% is adjusted to 75.8%, as shown on page 8 of my exhibit.

Big Bend Unit 1

On this unit 336 planned outage hours were originally scheduled to fall within the Summer 1998 period. Due to a revision of the outage schedule, this outage occurred after the Summer period, and no planned outage hours fell within the period. Consequently, the actual equivalent availability of 85.5% is adjusted to 79.0% as shown on page 9 of my exhibit.

Big Bend Unit No. 2

On this unit no planned outage hours were originally scheduled to fall within the Summer 1998 period. Due to a revision of the outage schedule, this outage was moved forward and 913.2 planned outage hours fell within the period. Consequently, the actual equivalent availability of 67.8% is adjusted to 85.6% as shown on page 10 of my exhibit.

Big Bend Unit No. 3

On this unit 791 planned outage hours were originally scheduled to fall within the Summer 1998 period. Due to a reprioritization of work, the outage was shortened and

393.8 planned outage hours fell within the period. Consequently, the actual equivalent availability of 71.4% is adjusted to 64.3% as shown on page 11 of my exhibit.

Big Bend Unit No. 4

On this unit no planned outage hours were scheduled to fall within the Summer 1998 period, and none in fact occurred. Consequently, the actual equivalent availability of 89.2% requires no adjustment as shown on page 12 of my exhibit.

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

A. The final adjusted equivalent availabilities for each unit are shown on page 6, column 4, of my exhibit. This number is entered into the respective Generating Performance Incentive Point (GPIP) Table for each particular unit on pages 21 through 26. Page 4 of my exhibit summarizes the equivalent availability points to be awarded or penalized.

Q. Would you please explain the heat rate results relative to the GPIF?

A. The actual heat rate and adjusted actual heat rate for the Gannon units and Big Bend Station are shown on page 6 of my

exhibit. The adjustment was developed based on the guidelines of section 4.3.16 of the GPIF Manual. This procedure is further defined by a letter dated October 23, 1981, from Mr. J.H. Hoffsis of the FPSC Staff. The final adjusted actual heat rates are also shown on page 5 of my exhibit. This heat rate number is entered into the respective GPIP table for the particular unit, shown on pages 21 through 26. Page 4 of my exhibit summarizes the weighted heat rate and equivalent availability points to be awarded.

Q. Were any additional adjustments to heat rate required?

A. In order to assure compatibility of data, Big Bend Unit 3 heat rates have been calculated in the standard fashion, without scrubber power. This methodology has been reviewed and approved by the PSC staff, to be employed until there is sufficient operational history with the scrubber to meet target preparation guidelines.

Q. Does this assure that the Big Bend 3 heat rate for the period is appropriate for comparison to its target and meets GPIF criteria?

A. Yes.

Q. What is the overall GPIP for Tampa Electric Company during this six month period?

A. This is shown on page 28 of my exhibit. Essentially, the weighting factors shown on page 4, column 3, plus the equivalent availability points and the heat rate points shown on page 4, column 4, are substituted within the equation. This resultant value, -.986, is then entered into the GPIF table on page 2. Using linear interpolation, a penalty amount of $229,924 is calculated.

Q. Does this conclude your testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY
APRIL 1998 - SEPTEMBER 1998
GENERATING PERFORMANCE INCENTIVE FACTOR
RESULTS
TABLE OF CONTENTS

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
REWARD / PENALTY TABLE - ACTUAL
APRIL 1998 - SEPTEMBER 1998

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) ($000)	GENERATING PERFORMANCE INCENTIVE FACTOR ($000)
+10	6,630.7	2,331.9
+9	5,967.6	2,098.7
+8	5,304.6	1,865.5
+7	4,641.5	1,632.3
+6	3,978.4	1,399.1
+5	3,315.4	1,165.9
+4	2,652.3	932.8
+3	1,989.2	699.6
+2	1,326.1	466.4
+1	663.1	233.2
0	0	0.0
-1	(972.8)	(233.2)
-2	(1,945.5)	(466.4)
-3	(2,918.3)	(699.6)
-4	(3,891.0)	(932.8)
-5	(4,863.8)	(1,165.9)
-6	(5,836.6)	(1,399.1)
-7	(6,809.3)	(1,632.3)
-8	(7,782.1)	(1,865.5)
-9	(8,754.8)	(2,098.7)
-10	(9,727.6)	(2,331.9)

GPIP Points -0.986

REWARD DOLLARS ($229,924)

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS
ACTUAL
APRIL 1998 - SEPTEMBER 1998

Line 1	Beginning of period balance of common equity end of month common equity:			$1,145,671,810
Line 2	Month of	April	1998	$1,131,405,751
Line 3	Month of	May	1998	$1,148,822,283
Line 4	Month of	June	1998	$1,168,109,175
Line 5	Month of	July	1998	$1,162,731,120
Line 6	Month of	August	1998	$1,182,491,844
Line 7	Month of	September	1998	$1,195,743,419
Line 8	(summation of line 1 through line 7 divided by 7)			$1,162,139,343
Line 9	25 Basis points			0.0025
Line 10	Revenue expansion factor			61.3738%
Line 11	Maximum allowed incentive Dollars (Line 8 times line 9 divided by line 10 times 0.5)			$2,366,929
Line 12	Jurisdictional Sales			8549852 MWH
Line 13	Total Sales			8678332 MWH
Line 14	Jurisdictional Separation Factor (Line 12 divided by line 13)			98.52%
Line 15	Maximum Allowed Jurisdictional Incentive Dollars (Line 11 times line 14)			$2,331,887

TAMPA ELECTRIC COMPANY
CALCULATION OF SYSTEM GPIF POINTS
APRIL 1998 - SEPTEMBER 1998
ACTUAL

PLANT/UNIT	6 MO ADJ ACTUAL PERFORMANCE	WEIGHTING FACTOR %	UNIT POINTS	WEIGHTED UNIT POINTS
GANNON 5	84.2% EAF	5.22%	-0.938	-0.049
GANNON 6	75.8% EAF	5.06%	-10.000	-0.506
BIG BEND 1	79.0% EAF	10.92%	2.188	0.239
BIG BEND 2	85.6% EAF	9.38%	-1.490	-0.140
BIG BEND 3	64.3% EAF	13.19%	-6.274	-0.828
BIG BEND 4	89.2% EAF	3.15%	-8.310	-0.262
GANNON 5	10321 ANOHR	7.58%	0.000	0.000
GANNON 6	10643 ANOHR	10.09%	-1.262	-0.127
BIG BEND 1	10117 ANOHR	11.15%	2.577	0.287
BIG BEND 2	9970 ANOHR	7.96%	7.059	0.562
BIG BEND 3	9899 ANOHR	9.38%	-1.723	-0.162
BIG BEND 4	9885 ANOHR	6.92%	0.000	0.000
				-0.986

GPIF REWARD	($229,924)

TAMPA ELECTRIC COMPANY

GPIF TARGET AND RANGE SUMMARY

APRIL 1998 - SEPTEMBER 1998

EQUIVALENT AVAILABILITY

PLANT/UNIT	WEIGHTING FACTOR (%)	EAF TARGET (%)	EAF RANGE MAX. (%)	EAF RANGE MIN. (%)	MAX. FUEL SAVINGS ($000)	MAX. FUEL LOSS ($000)	EAF ADJUSTED ACTUAL %	ACTUAL FUEL SAVINGS/ LOSS ($000)
GANNON 5	5.22%	84.8	87.9	78.9	346.2	(660.8)	84.2%	(62.0)
GANNON 6	5.06%	81.1	83.8	75.9	335.4	(823.9)	75.8%	(823.9)
BIG BEND 1	10.92%	78.3	81.5	72.0	724.0	(1,391.9)	79.0%	304.6
BIG BEND 2	9.38%	86.4	89.1	81.0	622.0	(1,212.2)	85.6%	(180.6)
BIG BEND 3	13.19%	68.8	72.3	61.7	874.4	(1,694.8)	64.3%	(1,063.4)
BIG BEND 4	3.15%	91.9	93.5	88.7	208.9	(424.2)	89.2%	(352.5)
GPIF SYSTEM	46.92%				3,110.9	(6,207.8)		

AVERAGE NET OPERATING HEAT RATE FOR GPIF COAL GENERATING UNITS

PLANT/UNIT	WEIGHTING FACTOR (%)	ANOHR Btu/kwh	TARGET NOF	ANOHR TARGET RANGE MIN.	ANOHR TARGET RANGE MAX.	MAX. FUEL SAVINGS ($000)	MAX. FUEL LOSS ($000)	ACTUAL ADJUSTED ANOHR	ACTUAL FUEL SAVINGS/ LOSS ($000)
GANNON 5	7.58%	10377	89.0	9899	10855	502.6	(502.6)	10321	0.0
GANNON 6	10.09%	10527	91.3	10127	10927	669.3	(669.3)	10643	(84.4)
BIG BEND 1	11.15%	10267	83.6	9901	10633	739.0	(739.0)	10117	190.5
BIG BEND 2	7.96%	10225	83.1	9895	10555	527.8	(527.8)	9970	372.6
BIG BEND 3	9.38%	9778	94.5	9436	10120	621.7	(621.7)	9899	(107.1)
BIG BEND 4	6.92%	9831	96.6	9643	10019	459.4	(459.4)	9885	0.0
GPIF SYSTEM	53.08%					3,519.8	(3,519.8)		

TAMPA ELECTRIC COMPANY
ACTUAL UNIT PERFORMANCE DATA
APRIL 1998 - SEPTEMBER 1998

PLANT / UNIT	ACTUAL EAF %	ADJUSTMENTS (1) EAF %	EAF ADJUSTED ACTUAL %
GANNON 5	84.2	0.0	84.2
GANNON 6	82.0	-6.2	75.8
BIG BEND 1	85.5	-6.5	79.0
BIG BEND 2	67.8	17.8	85.6
BIG BEND 3	71.4	-7.1	64.3
BIG BEND 4	89.2	0.0	89.2

PLANT / UNIT	ACTUAL ANOHR Btu/kwh	ADJUSTMENTS (2) TO ANOHR Btu/kwh	ANOHR ADJUSTED ACTUAL Btu/kwh
GANNON 5	10475	-154	10321
GANNON 6	10540	103	10643
BIG BEND 1	10225	-108	10117
BIG BEND 2	10101	-131	9970
BIG BEND 3	10228	-329	9899
BIG BEND 4	10074	-189	9885

(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
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 5.22%

	6 MO. TARGET	6 MO. ACTUAL PERFORMANCE	ADJUSTED ACTUAL PERFORMANCE
P.H.	4391.0	4391.0	4391.0
E.A.F.	84.8	84.2	84.2
P.O.H.	0.0	0.0	0.0
F.O.H. + E.F.O.H	555.0	499.7	499.7
M.O.H. + E.M.O.H	111.0	191.6	191.6
P.O.F.	0.0	0.0	0.0
E.F.O.F.	12.6	11.4	11.4
E.M.O.F.	2.5	4.4	4.4

-0.938 E. A. POINTS

ADJUSTMENTS TO E.A.F.

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

$$\frac{4391 - 0}{4391 - 0} \times (210.7 + 289.0 + 41.3 + 150.3) = 691.3$$

$$\frac{0 + 691}{4391} \times 100 = 15.8$$

$$100.0 - 15.8 = 84.2$$

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
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 5.06%

	6 MO. TARGET	6 MO. ACTUAL PERFORMANCE	ADJUSTED ACTUAL PERFORMANCE
P.H.	4391.0	4391.0	4391.0
E.A.F.	81.1	82.0	75.8
P.O.H.	336.0	0.0	336.0
F.O.H. + E.F.O.H	292.0	451.2	416.7
M.O.H. + E.M.O.H	203.0	337.7	311.9
P.O.F.	7.7	0.0	7.7
E.F.O.F.	6.6	10.3	9.5
E.M.O.F.	4.6	7.7	7.1

-10.000 E. A. POINTS

ADJUSTMENTS TO E.A.F.

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

$$\frac{4391 - 336}{4391 - 0} \times (22.2 + 429.0 + 195.1 + 142.6) = 728.5$$

$$\frac{336 + 729}{4391} \times 100 = 24.2$$

100.0 - 24.2 = 75.8

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
EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR
EUOF = EQUIVALENT UNPLANNED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 1
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 10.92%

	6 MO. TARGET	6 MO. ACTUAL PERFORMANCE	ADJUSTED ACTUAL PERFORMANCE
P.H.	4391.0	4391.0	4391.0
E.A.F.	78.3	85.5	79.0
P.O.H.	336.0	0.0	336.0
F.O.H. + E.F.O.H	413.0	468.8	432.9
M.O.H. + E.M.O.H	202.0	165.9	153.2
P.O.F.	7.7	0.0	7.7
E.F.O.F.	9.4	10.7	9.9
E.M.O.F.	4.6	3.8	3.5

2.188 E. A. POINTS

ADJUSTMENTS TO E.A.F.

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

$$\frac{4391 - 336}{4391 - 0} \times (327.2 + 141.6 + 65.5 + 100.4) = 586.1$$

$$\frac{336 + 586}{4391} \times 100 = 21.0$$

$$100.0 - 21.0 = 79.0$$

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
EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR
EUOF = EQUIVALENT UNPLANNED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 2
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 9.38%

	6 MO. TARGET	6 MO. ACTUAL PERFORMANCE	ADJUSTED ACTUAL PERFORMANCE
P.H.	4391.0	4391.0	4391.0
E.A.F.	86.4	67.8	85.6
P.O.H.	0.0	913.2	0.0
F.O.H. + E.F.O.H	401.0	352.5	445.1
M.O.H. + E.M.O.H	195.0	148.4	187.4
P.O.F.	0.0	20.8	0.0
E.F.O.F.	9.1	8.0	10.1
E.M.O.F.	4.4	3.4	4.3

-1.490 E. A. POINTS

ADJUSTMENTS TO E.A.F.

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

$$\frac{4391 - 0}{4391 - 913} \times (231.6 + 120.9 + 35.3 + 113.1) = 632.4$$

$$\frac{0 + 632}{4391} \times 100 = 14.4$$

$$100.0 - 14.4 = 85.6$$

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
EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR
EUOF = EQUIVALENT UNPLANNED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 3
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 13.19%

	6 MO. TARGET	6 MO. ACTUAL PERFORMANCE	ADJUSTED ACTUAL PERFORMANCE
P.H.	4391.0	4391.0	4391.0
E.A.F.	68.8	71.4	64.3
P.O.H.	791.0	393.8	791.0
F.O.H. + E.F.O.H	431.0	700.2	630.6
M.O.H. + E.M.O.H	150.0	159.9	144.0
P.O.F.	18.0	9.0	18.0
E.F.O.F.	9.8	15.9	14.4
E.M.O.F.	3.4	3.6	3.3

-6.274 E. A. POINTS

ADJUSTMENTS TO E.A.F.

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

$$\frac{4391 - 791}{4391 - 394} \times (504.4 + 195.8 + 0.0 + 159.9) = 774.6$$

$$\frac{791 + 775}{4391} \times 100 = 35.7$$

100.0 - 35.7 = 64.3

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
EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR
EUOF = EQUIVALENT UNPLANNED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 4
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 3.15%

	6 MO. TARGET	6 MO. ACTUAL PERFORMANCE	ADJUSTED ACTUAL PERFORMANCE
P.H.	4391.0	4391.0	4391.0
E.A.F.	91.9	89.2	89.2
P.O.H.	0.0	0.0	0.0
F.O.H. + E.F.O.H	213.0	253.7	253.7
M.O.H. + E.M.O.H	141.0	218.3	218.3
P.O.F.	0.0	0.0	0.0
E.F.O.F.	4.9	5.8	5.8
E.M.O.F.	3.2	5.0	5.0

-8.310 E. A. POINTS

ADJUSTMENTS TO E.A.F.

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

$$\frac{4391 - 0}{4391 - 0} \times (145.9 + 107.8 + 44.4 + 173.9) = 472.0$$

$$\frac{0 + 472}{4391} \times 100 = 10.8$$

100.0 - 10.8 = 89.2

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
EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR
EUOF = EQUIVALENT UNPLANNED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
GANNON UNIT NO. 5
HEAT RATE DATA
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 7.58%

	6 MO. TARGET	6 MO ACTUAL PERFORMANCE
ANOHR (Btu/kwh)	10377	10475
STA. NET GEN. (GWH)	682.3	734.1
OPER. Btu (10^9 btu)	7079.988	7689.155
NET OUTPUT FACTOR	89.0	79.2

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-15.6845) + 11773.1 = ANOHR

79.2	(-15.6845) + 11773.1 =			10531
10475	-	10531	=	-56
10377	+	-56	=	10321

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

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
GANNON UNIT NO. 6
HEAT RATE DATA
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 10.09%

	6 MO. TARGET	6 MO ACTUAL PERFORMANCE
ANOHR (Btu/kwh)	10527	10540
STA. NET GEN. (GWH)	1151.3	1143.6
OPER. Btu (10^9 btu)	12120.697	12054.383
NET OUTPUT FACTOR	91.3	76.5

-1.262 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION	NOF(7.0159) + 9886.9	=	ANOHR
76.5	(7.0159) + 9886.9	=	10424
10540	-	10424	=	116
10527	+	116	=	10643

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
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 11.15%

	6 MO. TARGET	6 MO ACTUAL PERFORMANCE
ANOHR (Btu/kwh)	10267	10225
STA. NET GEN. (GWH)	1355.3	1333.2
OPER. Btu (10^9 btu)	13915.115	13632.341
NET OUTPUT FACTOR	83.6	79.2

2.577 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-24.5419) + 12319.0 = ANOHR

79.2 (-24.5419) + 12319.0 = 10375

10225 - 10375 = -150

10267 + -150 = 10117

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
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 7.96%

	6 MO. TARGET	6 MO ACTUAL PERFORMANCE
ANOHR (Btu/kwh)	10225	10101
STA. NET GEN. (GWH)	1074.5	1059.1
OPER. Btu (10^9 btu)	10986.729	10698.317
NET OUTPUT FACTOR	83.1	79.3

7.059 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-29.1068) + 12664.0 = ANOHR

79.3 (-29.1068) + 12664.0 = 10356

10101 - 10356 = -255

10225 + -255 = 9970

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
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 9.38%

	6 MO. TARGET	6 MO ACTUAL PERFORMANCE
ANOHR (Btu/kwh)	9778	10228
STA. NET GEN. (GWH)	1607.4	1184.3
OPER. Btu (10^9 btu)	15717.682	12113.369
NET OUTPUT FACTOR	94.5	79.2

-1.723 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-21.5491) + 11814.6 = ANOHR

79.2 (-21.5491) + 11814.6 = 10107

10228 - 10107 = 121

9778 + 121 = 9899

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
APRIL 1998 - SEPTEMBER 1998

WEIGHTING FACTOR = 6.92%

	6 MO. TARGET	6 MO ACTUAL PERFORMANCE
ANOHR (Btu/kwh)	9831	10074
STA. NET GEN. (GWH)	1753.2	1577.4
OPER. Btu (10^9 btu)	17235.118	15890.953
NET OUTPUT FACTOR	96.6	85.0

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION NOF(-28.6185) + 12450.9 = ANOHR

85.0 (-28.6185) + 12450.9 = 10020

10074 - 10020 = 54

9831 + 54 = 9885

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

TAMPA ELECTRIC COMPANY

GPIF PLANNED OUTAGE SCHEDULE - ACTUAL

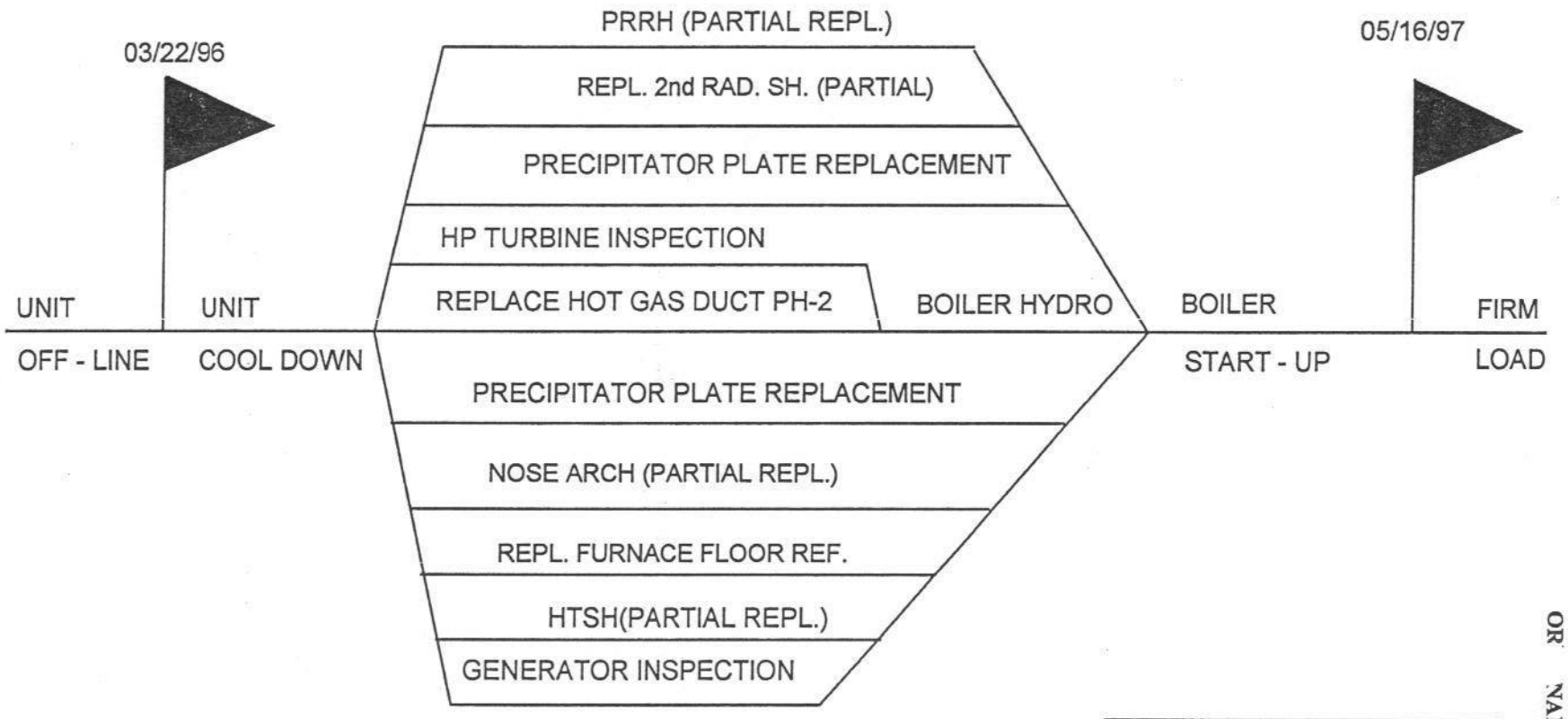
APRIL 1998 - SEPTEMBER 1998

STATION/UNIT	PLANNED OUTAGE DATES	OUTAGE REASON
*BIG BEND 2	MAR 21 - MAY 08	PRIMARY RHTR BFPT INSPECTION PPTR TRANS. RECTIFIER CLASSIFIERS / MILL ENDS HOT GAS DUCT
** BIG BEND 3	MAY 09 - MAY 25	WIND BOX REPAIRS

Milestone or Critical Path Charts of actual schedule are included on page 20.

*Start / End dates outside of GPIF period.

**Outage is less than 4 weeks in duration and a CPM was not included for this unit.



TAMPA ELECTRIC COMPANY
BIG BEND UNIT NUMBER 2
PLANNED OUTAGE 1998
ACTUAL CPM
03/18/99

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

APRIL 1998 - SEPTEMBER 1998

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	346.2	87.9	+10	502.6	9899
+9	311.6	87.6	+9	452.3	9939
+8	277.0	87.3	+8	402.1	9980
+7	242.3	87.0	+7	351.8	10020
+6	207.7	86.7	+6	301.6	10060
+5	173.1	86.4	+5	251.3	10101
+4	138.5	86.0	+4	201.0	10141
+3	103.9	85.7	+3	150.8	10181
+2	69.2	85.4	+2	100.5	10221
+1	34.6	85.1	+1	50.3	10262
0	0.0	84.8	0	0.0	10302
				0.0	10377
				0.0	10452
-1	(66.1)	84.2	-1	(50.3)	10492
-2	(132.2)	83.6	-2	(100.5)	10533
-3	(198.2)	83.0	-3	(150.8)	10573
-4	(264.3)	82.4	-4	(201.0)	10613
-5	(330.4)	81.9	-5	(251.3)	10654
-6	(396.5)	81.3	-6	(301.6)	10694
-7	(462.6)	80.7	-7	(351.8)	10734
-8	(528.6)	80.1	-8	(402.1)	10774
-9	(594.7)	79.5	-9	(452.3)	10815
-10	(660.8)	78.9	-10	(502.6)	10855

EAF POINTS -0.938

Adjusted EAF 84.2%

AHR POINTS 0.000

Adjusted Actual ANOHR 10321

Weighting Factor = 5.22%

Weighting Factor = 7.58%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

APRIL 1998 - SEPTEMBER 1998

GANNON 6

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY
+10	346.2	83.8
+9	311.6	83.5
+8	277.0	83.3
+7	242.3	83.0
+6	207.7	82.7
+5	173.1	82.5
+4	138.5	82.2
+3	103.9	81.9
+2	69.2	81.6
+1	34.6	81.4
0	0.0	81.1
-1	(66.1)	80.6
-2	(132.2)	80.1
-3	(198.2)	79.5
-4	(264.3)	79.0
-5	(330.4)	78.5
-6	(396.5)	78.0
-7	(462.6)	77.5
-8	(528.6)	76.9
-9	(594.7)	76.4
-10	(660.8)	75.9

EAF POINTS -10.000

Adjusted EAF 75.8

Weighting Factor = 5.06%

AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	669.3	10127
+9	602.4	10160
+8	535.4	10192
+7	468.5	10225
+6	401.6	10257
+5	334.7	10290
+4	267.7	10322
+3	200.8	10355
+2	133.9	10387
+1	66.9	10420
0	0.0	10452
-1	0.0	10527
-2	0.0	10602
-3	(66.9)	10635
-4	(133.9)	10667
-5	(200.8)	10700
-6	(267.7)	10732
-7	(334.7)	10765
-8	(401.6)	10797
-9	(468.5)	10830
-10	(535.4)	10862
	(602.4)	10895
	(669.3)	10927

AHR POINTS -1.262

Adjusted Actual ANOHR 10643

Weighting Factor = 10.09%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

APRIL 1998 - SEPTEMBER 1998

BIG BEND 1

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY
+10	724.0	81.5
+9	651.6	81.2
+8	579.2	80.9
+7	506.8	80.5
+6	434.4	80.2
+5	362.0	79.9
+4	289.6	79.6
+3	217.2	79.3
+2	144.8	78.9
+1	72.4	78.6
0	0.0	78.3
-1	139.2	77.7
-2	278.4	77.0
-3	417.6	76.4
-4	556.8	75.8
-5	696.0	75.2
-6	835.1	74.5
-7	974.3	73.9
-8	1,113.5	73.3
-9	1,252.7	72.6
-10	1,391.9	72.0
	Weighting Factor =	10.92%

EAF POINTS 2.188

Adjusted EAF 79.0

AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	739.0	9901
+9	665.1	9930
+8	591.2	9959
+7	517.3	9988
+6	443.4	10017
+5	369.5	10047
+4	295.6	10076
+3	221.7	10105
+2	147.8	10134
+1	73.9	10163
	0.0	10192
0	0.0	10267
	0.0	10342
-1	(73.9)	10371
-2	(147.8)	10400
-3	(221.7)	10429
-4	(295.6)	10458
-5	(369.5)	10488
-6	(443.4)	10517
-7	(517.3)	10546
-8	(591.2)	10575
-9	(665.1)	10604
-10	(739.0)	10633
	Weighting Factor =	11.15%

AHR POINTS 2.577

Adjusted Actual ANOHR 10117

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

APRIL 1998 - SEPTEMBER 1998

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	622.0	89.1	+10	527.8	9895
+9	559.8	88.8	+9	475.0	9921
+8	497.6	88.6	+8	422.2	9946
+7	435.4	88.3	+7	369.5	9972
+6	373.2	88.0	+6	316.7	9997
+5	311.0	87.8	+5	263.9	10023
+4	248.8	87.5	+4	211.1	10048
+3	186.6	87.2	+3	158.3	10074
+2	124.4	86.9	+2	105.6	10099
+1	62.2	86.7	+1	52.8	10125
0	0.0	86.4	0	0.0	10150
				0.0	10225
				0.0	10300
-1	(121.2)	85.9	-1	(52.8)	10326
-2	(242.4)	85.3	-2	(105.6)	10351
-3	(363.7)	84.8	-3	(158.3)	10377
-4	(484.9)	84.2	-4	(211.1)	10402
-5	(606.1)	83.7	-5	(263.9)	10428
-6	(727.3)	83.2	-6	(316.7)	10453
-7	(848.5)	82.6	-7	(369.5)	10479
-8	(969.8)	82.1	-8	(422.2)	10504
-9	(1,091.0)	81.5	-9	(475.0)	10530
-10	(1,212.2)	81.0	-10	(527.8)	10555

EAF POINTS -1.490

Adjusted EAF 85.6

AHR POINTS 7.059

Adjusted Actual ANOHR 9970

Weighting Factor = 9.38%

Weighting Factor = 7.96%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

APRIL 1998 - SEPTEMBER 1998

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	874.4	72.3	+10	621.7	9436
+9	787.0	72.0	+9	559.5	9463
+8	699.5	71.6	+8	497.4	9489
+7	612.1	71.3	+7	435.2	9516
+6	524.6	70.9	+6	373.0	9543
+5	437.2	70.6	+5	310.9	9570
+4	349.8	70.2	+4	248.7	9596
+3	262.3	69.9	+3	186.5	9623
+2	174.9	69.5	+2	124.3	9650
+1	87.4	69.2	+1	62.2	9676
				0.0	9703
0	0.0	68.8	0	0.0	9778
				0.0	9853
-1	169.5	68.1	-1	(62.2)	9880
-2	339.0	67.4	-2	(124.3)	9906
-3	508.4	66.7	-3	(186.5)	9933
-4	677.9	66.0	-4	(248.7)	9960
-5	847.4	65.3	-5	(310.9)	9987
-6	1,016.9	64.5	-6	(373.0)	10013
-7	1,186.4	63.8	-7	(435.2)	10040
-8	1,355.8	63.1	-8	(497.4)	10067
-9	1,525.3	62.4	-9	(559.5)	10093
-10	1,694.8	61.7	-10	(621.7)	10120
	Weighting Factor =	13.19%		Weighting Factor =	9.38%

EAF POINTS -6.274

Adjusted EAF 64.3

AHR POINTS -1.723

Adjusted Actual ANOIIR 9899

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

APRIL 1998 - SEPTEMBER 1998

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	208.9	93.5	+10	459.4	9643
+9	188.0	93.3	+9	413.5	9654
+8	167.1	93.2	+8	367.5	9666
+7	146.2	93.0	+7	321.6	9677
+6	125.3	92.9	+6	275.6	9688
+5	104.5	92.7	+5	229.7	9700
+4	83.6	92.5	+4	183.8	9711
+3	62.7	92.4	+3	137.8	9722
+2	41.8	92.2	+2	91.9	9733
+1	20.9	92.1	+1	45.9	9745
0	0.0	91.9	0	0.0	9756
				0.0	9831
				0.0	9906
-1	42.4	91.6	-1	(45.9)	9917
-2	84.8	91.3	-2	(91.9)	9929
-3	127.3	90.9	-3	(137.8)	9940
-4	169.7	90.6	-4	(183.8)	9951
-5	212.1	90.3	-5	(229.7)	9963
-6	254.5	90.0	-6	(275.6)	9974
-7	296.9	89.7	-7	(321.6)	9985
-8	339.4	89.3	-8	(367.5)	9996
-9	381.8	89.0	-9	(413.5)	10008
-10	424.2	88.7	-10	(459.4)	10019

EAF POINTS -8.310

Adjusted EAF 89.2

AHR POINTS 0.000

Adjusted Actual ANOHR 9885

Weighting Factor = 3.15%

Weighting Factor = 6.92%

TAMPA ELECTRIC COMPANY

COMPARISON OF GPIF TARGETS VS. PRIOR PERIOD ACTUAL PERFORMANCE

APRIL 1998 - SEPTEMBER 1998

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD APR 98 - SEP 98 POF	EUOF	EUOR	ACTUAL PERFORMANCE APR 98 - SEP 98 POF	EUOF	EUOR
BIG BEND 1	10.92%	23.3	7.7	14.0	15.2	0.0	14.5	14.5
BIG BEND 2	9.38%	20.0	0.0	13.6	13.6	20.8	11.4	14.4
BIG BEND 3	13.19%	28.1	18.0	13.2	16.1	9.0	19.6	21.5
BIG BEND 4	3.15%	6.7	0.0	8.1	8.1	0.0	10.7	10.7
GANNON 5	5.22%	11.1	0.0	15.2	15.2	0.0	15.7	15.7
GANNON 6	5.06%	10.8	7.7	11.3	12.2	0.0	18.0	18.0
	46.92%	100.0						
GPIF SYSTEM WEIGHTED AVERAGE			7.7	13.1	14.3	6.7	15.6	16.7
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY				79.2			77.7	

5 PERIOD AVERAGE POF	EUOF	EUOR	5 PERIOD AVERAGE EAF
6.9	13.4	14.4	79.7

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE TARGET	ACTUAL HEAT RATE APR 98 - SEP 98
GANNON 5	7.58%	14.3	10377	10475
GANNON 6	10.09%	19.0	10527	10540
BIG BEND 1	11.15%	21.0	10267	10225
BIG BEND 2	7.96%	15.0	10225	10101
BIG BEND 3	9.38%	17.7	9778	10228
BIG BEND 4	6.92%	13.0	9831	10074
	53.08%	100.0		
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			10183	10283

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS CALCULATION
APRIL 1998 - SEPTEMBER 1998

Points are calculated according to the formula:

$$GPIP = \sum_{1}^{n} [(a_i)(EAP_i) + (e_i)(AHRP)]$$

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 =	5.22%	*	(GN 5 EAP)	+	5.06%	*	(GN 6 EAP)	+	10.92%	*	(BB 1 EAP)
	9.38%	*	(BB 2 EAP)	+	13.19%	*	(BB 3 EAP)	+	3.15%	*	(BB 4 EAP)
	7.58%	*	(GN 5 AHRP)	+	10.09%	*	(GN 6 AHRP)	+	11.15%	*	(BB 1 AHRP)
	7.96%	*	(BB 2 AHRP)	+	9.38%	*	(BB 3 AHRP)	+	6.92%	*	(BB 4 AHRP)

GPIP =	5.22%	*	-0.938	+	5.06%	*	-10.000	+	10.92%	*	2.188
	9.38%	*	-1.490	+	13.19%	*	-6.274	+	3.15%	*	-8.310
	7.58%	*	0.000	+	10.09%	*	-1.262	+	11.15%	*	2.577
	7.96%	*	7.059	+	9.38%	*	-1.723	+	6.92%	*	0.000

GPIP =	-0.049	+	-0.506	+	0.239	+	-0.140
	-0.828	+	-0.262	+	0.000	+	-0.127
	0.287	+	0.562	+	-0.162	+	0.000

GPIP = -0.986 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 = ($229,924)