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October 5, 1998

RECORDS AND
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RECORDS - FPSC

BY HAND DELIVERY

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. 980001-EI

Dear Ms. Bayo:

Enclosed for filing in the above docket, on behalf of Tampa Electric Company, are the original and fifteen (15) copies of each of the following:

1. Petition of Tampa Electric Company 10941-95
2. Prepared Direct Testimony of Karen Zwolak with attached Exhibits (KOZ-2) and (KOZ-3) supporting Tampa Electric's projected Fuel and Purchased Power Cost Recovery and Capacity Cost Recovery for the Period January 1999 through December 1999. 10942-95
3. Prepared Direct Testimony of George A. Keselowsky with attached Exhibit (GAK-2) regarding Tampa Electric's proposed GPIF targets and ranges for the period October 1998 through December 1998. 10943-98
4. Prepared Direct Testimony of George A. Keselowsky with attached Exhibit (GAK-2) regarding Tampa Electric Company's proposed GPIF targets and ranges for the period January 1999 through December 1999. 10944-98

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

Thank you for your assistance in this matter.

Sincerely,


James D. Beasley

ACK _____
AFA Vaudre _____
APP _____
CAF _____
CMB _____
CTR _____
EAG Chikman _____
LEG 1 _____
LIN 3+orig _____
OPC _____
RCH _____
SEC 1 JDB/bjd _____
WAS _____
OTH _____

ORIGINAL

TAMPA ELECTRIC COMPANY
DOCKET NO. 980001-EI
SUBMITTED FOR FILING 10/5/98
(PROJECTION)

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **GEORGE A. KESELOWSKY**

5
6 **Q.** Will you please state your name, business address, and
7 employer?

8
9 **A.** My name is George A. Keselowsky and my business address is
10 Post Office Box 111, Tampa, Florida 33601. I am employed
11 by Tampa Electric Company.

12
13 **Q.** Please furnish us with a brief outline of your educational
14 background and business experience.

15
16 **A.** I graduated in 1972 from the University of South Florida
17 with a Bachelor of Science Degree in Mechanical
18 Engineering. I have been employed by Tampa Electric
19 Company in various engineering positions since that time.
20 My current position is that of Senior Consulting Engineer
21 - Energy Supply Engineering.

22
23 **Q.** What are your current responsibilities?

24
25 **A.** I am responsible for testing and reporting unit

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performance, and the compilation and reporting of generation statistics.

Q. What is the purpose of your testimony?

A. My testimony presents Tampa Electric Company's methodology for determining the various factors required to compute the Generating Performance Incentive Factor (GPIF) as ordered by this Commission.

Q. Have you prepared an exhibit showing the various elements of the derivation of Tampa Electric Company's GPIF formula?

A. Yes, I have prepared, under my direction and supervision, an exhibit entitled "Tampa Electric Company, Generating Performance Incentive Factor" October 1998 - December 1998, consisting of 35 pages filed with the Commission on October 5, 1998. (Have identified as Exhibit GAK-2). The data prepared within this exhibit is consistent with the GPIF Implementation Manual previously approved by this Commission.

1 Q. Which generating units on Tampa Electric Company's system
2 are included in the determination of your GPIF?
3

4 A. Six of our coal-fired units are included. These are:
5 Gannon Station Units 5 and 6; and Big Bend Station Units 1,
6 2, 3, and 4.
7

8 Q. Will you describe how Tampa Electric Company evolved the
9 various factors associated with the GPIF as ordered by this
10 Commission?
11

12 A. Yes. First, the two factors to be used, as set forth by
13 the Commission Staff, are unit availability and station
14 heat rate.
15

16 Q. Please continue.
17

18 A. A target was established for equivalent availability for
19 each unit considered for this period. Heat rate targets
20 were also established for each unit. A range of potential
21 improvement and degradation was determined for each of
22 these parameters.
23
24
25

1 Q. Would you describe how the target values for unit
2 availability were determined?

3
4 A. Yes I will. The Planned Outage Factor (POF) and the
5 Equivalent Unplanned Outage Factor (EUOF) were subtracted
6 from 100% to determine the target equivalent availability.
7 The factors for each of the 6 units included within the
8 GPIF are shown on page 5 of my exhibit. For example, the
9 projected EUOF for Big Bend Unit Two is 14.6%. The Planned
10 Outage Factor for this same unit during this period is 0%.
11 Therefore, the target equivalent availability for this unit
12 equals:

$$100\% - [(14.6\% + 0\%)] = 85.4\%$$

13
14
15
16 This is shown on page 4, column 3 of my exhibit.

17
18 Q. How was the potential for unit availability improvement
19 determined?

20
21 A. Maximum equivalent availability is arrived at using the
22 following formula.

23
24
25

1 Equivalent Availability Maximum

2 $EAF_{MAX} = 100\% - [0.8 (EUOF_1) + 0.95 (POF_1)]$

3
4 The factors included in the above equations are the same
5 factors that determine target equivalent availability. To
6 attain the maximum incentive points, a 20% reduction in
7 Forced Outage and Maintenance Outage Factors (EUOF), plus
8 a 5% reduction in the Planned Outage Factor (POF) will be
9 necessary. Continuing with our example on Big Bend Unit
10 Two:

11
12 $EAF_{MAX} = 100\% - [0.8 (14.6\%) + 0.95 (0\%)] = 88.3\%$

13
14 This is shown on page 4, column 4 of my exhibit.

15
16 Q. How was the potential for unit availability degradation
17 determined?

18
19 A. The potential for unit availability degradation is
20 significantly greater than is the potential for unit
21 availability improvement. This concept was discussed
22 extensively and approved in earlier hearings before this
23 Commission. Tampa Electric Company's approach to
24 incorporating this skewed effect into the unit availability
25 tables is to use a potential degradation range equal to

1 Twice the potential improvement. Consequently, minimum
2 equivalent availability is arrived at via the following formula:

3

4 Equivalent Availability Minimum

5 $EAF_{MIN} = 100\% - [1.4 (EUOF_7) + 1.10 (POF_7)]$

6

7 Again, continuing with our example of Big Bend Unit Two.

8

9 $EAF_{MIN} = 100\% - [1.4 (14.6\%) + 1.1 (0\%)] = 79.6\%$

10

11 Equivalent availability MAX and MIN for the other five units is
12 computed in a similar manner.

13

14 Q. How do you arrive at the Planned Outage, Maintenance Outage
15 and Forced Outage Factors?

16

17 A. Our planned outages for this period are shown on page 19 of
18 my exhibit. A Critical Path Method (C.P.M.) for each major
19 planned outage which affects GPIF is included in my
20 exhibit. For example, Big Bend Unit 4 is scheduled for a
21 annual maintenance outage November 7 to November 27, 1998.
22 There are 504 planned outage hours scheduled, and a total
23 of 2209 hours during this 3 month period. Consequently,
24 the Planned Outage Factor for Unit 4 at Big Bend is

25

1 504/2209 x 100% or 22.8%. This factor is shown on pages 5
2 and 16 of my exhibit. Big Bend Unit 1 has a planned outage
3 factor of 27.4%. Big Bend Units 2 and 3 have planned
4 outage factors of zero, as does Gannon Unit 6. Gannon Unit
5 5 has a planned outage factor of 15.2%.

6
7 **Q.** How did you arrive at the Forced Outage and Maintenance
8 Outage Factors on each unit?

9
10 **A.** Graphs of both of these factors (adjusted for planned
11 outages) vs. time are prepared. Both monthly data and 12
12 month moving average data are recorded. For each unit the
13 most current, June 1998, 12 month ending value was used as
14 a basis for the projection. This value was adjusted up or
15 down by analyzing trends and causes for recent forced and
16 maintenance outages. All projected factors are based upon
17 historical unit performance, engineering judgment, time
18 since last planned outage, and equipment performance
19 resulting in a forced or maintenance outage. These target
20 factors are additive and result in a EUOF of 18.6% for
21 Gannon Unit Five. The Equivalent Unplanned Outage Factor
22 (EUOF) for Gannon Unit Five is verified by the data shown
23 on page 13, lines 3, 5, 10 and 11 of my exhibit and
24 calculated using the formula:

25

1 EUOF = $\frac{(\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH})}{\text{Period Hours}} \times 100$
2

3 or

4 EUOF = $\frac{(362 + 49)}{2209} \times 100 = 18.6\%$
5

6 Relative to Gannon Unit Five, the EUOF of 15.2% forms the
7 basis of our Equivalent Availability target development as
8 shown on sheets 4 and 5 of my exhibit.
9

10 Q. Please continue with your review of the remaining units.
11

12 Big Bend Unit One

13 A. The projected EUOF for this unit is 12.3% during this
14 period. This unit will have a planned outage this period
15 and the Planned Outage Factor is 27.4%. This results in a
16 target equivalent availability of 60.3% for the period.
17

18 Big Bend Unit Two

19 The projected EUOF for this unit is 14.6%. This unit will
20 not have a planned outage during this period and the
21 Planned Outage Factor is 0%. Therefore, the target
22 equivalent availability for this unit is 85.4%.
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Big Bend Unit Three

The projected EUOF for this unit is 18.1%. This unit will not have a planned outage this period and the Planned Outage Factor is 0%. Therefore, the target equivalent availability for this unit is 81.9%.

Big Bend Unit Four

The projected EUOF for this unit is 7.6%. This unit will have a planned outage during this period and the Planned Outage Factor is 22.8%. This results in a target equivalent availability of 69.6% for the period.

Gannon Unit Five

The projected EUOF for this unit is 18.6%. This unit will have a planned outage during this period and the Planned Outage Factor is 15.2%. Therefore, the target equivalent availability for this unit is 66.2%.

Gannon Unit Six

The projected EUOF for this unit is 17.4%. This unit will not have a planned outage during this period and the Planned Outage Factor is 0%. Therefore, the target equivalent availability for this unit is 82.6%.

- 1 Q. As you graph and monitor Forced and Maintenance Outage
2 Factors, why are they adjusted for planned outage hours?
3
- 4 A. This adjustment makes these factors more accurate and
5 comparable. Obviously, a unit in a planned outage stage or
6 reserve shutdown stage will not incur a forced or
7 maintenance outage. Since our units are usually base
8 loaded, reserve shutdown is generally not a factor. To
9 demonstrate the effects of a planned outage, note the EUOR
10 and EUOF for Gannon Unit Five on page 13. During the
11 months of November, and December, EUOF and EUOR are equal.
12 This is due to the fact that no planned outages are
13 scheduled during these months. During the month of
14 October, EUOR exceeds EUOF. The reason for this difference
15 is the scheduling of a planned outage. The adjusted
16 factors apply to the period hours after planned outage
17 hours have been extracted.
18
- 19 Q. Does this mean that both rate and factor data are used in
20 calculated data?
21
- 22 A. Yes it does. Rates provide a proper and accurate method of
23 arriving at the unit parameters. These are then converted
24 to factors since they are directly additive. That is, the
25 Forced Outage Factor + Maintenance Outage Factor + Planned

1 Outage Factor + Equivalent Availability = 100%. Since
2 factors are additive, they are easier to work with and to
3 understand.
4
5 **Q.** Has Tampa Electric Company prepared the necessary heat rate
6 data required for the determination of the Generating
7 Performance Incentive Factor?
8
9 **A.** Yes. Target heat rates as well as ranges of potential
10 operation have been developed as required.
11
12 **Q.** How were these targets determined?
13
14 **A.** Net heat rate data for the three most recent summer
15 periods, along with the PROMOD IV program, formed the basis
16 of our target development. Projections of unit performance
17 were made with the aid of PROMOD IV. The historical data
18 and the target values are analyzed to assure applicability
19 to current conditions of operation. This provides
20 assurance that any periods of abnormal operations, or
21 equipment modifications having material effect on heat rate
22 can be taken into consideration.
23
24
25

- 1 Q. Have you developed the heat rate targets in accordance with
2 GPIF guidelines?
3
- 4 A. Yes.
5
- 6 Q. How were the ranges of heat rate improvement and heat rate
7 degradation determined?
8
- 9 A. The ranges were determined through analysis of historical
10 net heat rate and net output factor data. This is the same
11 data from which the net heat rate vs. net output factor
12 curves have been developed for each unit. This information
13 is shown on pages 27 through 32 of my exhibit.
14
- 15 Q. Would you elaborate on the analysis used in the
16 determination of the ranges?
17
- 18 A. The net heat rate vs. net output factor curves are the results
19 of a first order curve fit to historical data. The standard
20 error of the estimate of this data was determined, and a factor
21 was applied to produce a band of potential improvement and
22 degradation. Both the curve fit and the standard error of the
23 estimate were performed by computer program for each unit. These
24 curves are also used in post period adjustments to actual heat
25 rates to account for unanticipated changes in unit dispatch.

- 1 Q. Can you summarize your heat rate projection for the October
2 1998 through December 1998 period?
3
- 4 A. Yes. The heat rate target for Big Bend Unit 1 is 10,311
5 Btu/Net kwh. The range about this value, to allow for
6 potential improvement or degradation, is ± 353 Btu/Net kwh.
7 The heat rate target for Big Bend Unit 2 is 10,311 Btu/Net
8 kwh with a range of ± 363 Btu/Net kwh. The heat rate target
9 for Big Bend Unit 3 is 10,051 Btu/Net kwh, with a range of
10 ± 387 Btu/Net kwh. The heat rate target for Big Bend Unit
11 4 is 9,945 Btu/Net kwh with a range of ± 243 Btu/Net kwh.
12 The heat rate target for Gannon Unit 5 is 10,242 Btu/Net
13 kwh with a range of ± 519 Btu/Net kwh. The heat rate target
14 for Gannon Unit 6 is 10,453 Btu/Net kwh with a range of
15 ± 380 Btu/Net kwh. A zone of tolerance of ± 75 Btu/Net kwh
16 is included within the range for each target. This is
17 shown on page 4, and pages 7 through 12 of my exhibit.
18
- 19 Q. Do you feel that the heat rate targets and ranges in your
20 projection meet the criteria of the GPIF and the philosophy
21 of this Commission?
22
- 23 A. Yes I do.
24
25

1 Q. After determining the target values and ranges for average
2 net operating heat rate and equivalent availability, what
3 is the next step in the GPIF?
4

5 A. The next step is to calculate the savings and weighting
6 factor to be used for both average net operating heat rate
7 and equivalent availability. This is shown on pages 7
8 through 12. Our PROMOD IV cost simulation model was used
9 to calculate the total system fuel cost if all units
10 operated at target heat rate and target availability for
11 the period. This total system fuel cost of \$56,823,100 is
12 shown on page 6 column 2.
13

14 The PROMOD IV output was then used to calculate total
15 system fuel cost with each unit individually operating at
16 maximum improvement in equivalent availability and each
17 station operating at maximum improvement in average net
18 operating heat rate. The respective savings are shown on
19 page 6 column 4. After all the individual savings are
20 calculated, column 4 is totaled: \$2,610,500 reflects the
21 savings if all units operated at maximum improvement. A
22 weighting factor for each parameter is then calculated by
23 dividing individual savings by the total. For Big Bend
24 Unit Two, the weighting factor for equivalent availability
25 is 6.48% as shown in the right hand column on page 6.

1 Pages 7 thru 12 show the point table, the Fuel
2 Savings/(Loss), and the equivalent availability or heat
3 rate value. The individual weighting factor is also shown.
4 For example, on Big Bend Unit Two, page 10, if the unit
5 operates at 88.3% equivalent availability, fuel savings
6 would equal \$169,200 and 10 equivalent availability points
7 would be awarded.

8
9 The Generating Performance Incentive Factor Reward/Penalty
10 Table on page 2 is a summary of the tables on pages 7
11 through 12. The left hand column of this document shows
12 the incentive points for Tampa Electric Company. The
13 center column shows the total fuel savings and is the same
14 amount as shown on page 6, column 4, \$2,610,500. The right
15 hand column of page 2 is the estimated reward or penalty
16 based upon performance.

17
18 Q. How were the maximum allowed incentive dollars determined?

19
20 A. Referring to my exhibit on page 3, line 5, the estimated
21 average common equity for the period October 1998 -
22 December 1998 is shown to be \$1,192,060,750. This produces
23 the maximum allowed jurisdictional incentive dollars of
24 \$1,205,569 shown on line 12.

25

1 Q. Is there any other constraint set forth by this Commission
2 regarding the magnitude of incentive dollars?

3
4 A. Yes. Incentive dollars are not to exceed fifty percent of
5 fuel savings. Page 2 of my exhibit demonstrates that this
6 constraint is met.

7
8 Q. Do you wish to summarize your testimony on the GPIF?

9
10 A. Yes. To the best of my knowledge and understanding, Tampa
11 Electric Company has fully complied with the Commission's
12 directions, philosophy, and methodology in our
13 determination of Generating Performance Incentive Factor.
14 The GPIF for Tampa Electric Company is expressed by the
15 following formula for calculating Generating Performance
16 Incentive Points (GPIP):

17
18
$$\text{GPIP} = (0.0417 \text{ EAP}_{\text{GM5}} + 0.0613 \text{ EAP}_{\text{GM6}}$$

19
$$+ 0.0673 \text{ EAP}_{\text{BB1}} + 0.0648 \text{ EAP}_{\text{BB2}}$$

20
$$+ 0.0909 \text{ EAP}_{\text{BB3}} + 0.0416 \text{ EAP}_{\text{BB4}}$$

21
$$+ 0.0881 \text{ HRP}_{\text{GM5}} + 0.1176 \text{ HRP}_{\text{GM6}}$$

22
$$+ 0.0854 \text{ HRP}_{\text{BB1}} + 0.1165 \text{ HRP}_{\text{BB2}}$$

23
$$+ 0.1414 \text{ HRP}_{\text{BB3}} + 0.0834 \text{ HRP}_{\text{BB4}}$$

24 Where:

25 GPIF = Generating performance incentive points.

1 EAP = Equivalent availability points awarded/deducted for
2 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at
3 Big Bend.
4 HRP = Average net heat rate points awarded/deducted for
5 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at
6 Big Bend.
7
8 Q. Have you prepared a document summarizing the GPIF targets
9 for the October 1998 - December 1998 period?
10
11 A. Yes. The availability and heat rate targets for each unit
12 are listed on attachment "A" to this testimony entitled
13 "Tampa Electric Company GPIF Targets, October 1, 1998
14 - December 31, 1998".
15
16 Q. Do you wish to sponsor an exhibit consisting of estimated
17 unit performance data supporting the fuel adjustment?
18
19 A. Yes I do. (Have identified as Exhibit GAK-3).
20
21 Q. Briefly describe this exhibit.
22
23 A. This exhibit consists of 23 pages. This data is Tampa Electric
24 Company's estimate of the Unit Performance Data and Unit Outage
25 Data for the October 1998 - December 1998 period.

1 Q. Does this conclude your testimony?
2
3 A. Yes.
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ATTACHMENT "A"

October 5, 1998

**TAMPA ELECTRIC COMPANY
GPIF TARGETS
October 1, 1998 - December 31, 1998**

Unit	Availability			Heat Rate
	EAF	POF	EUOF	
Gannon 5	66.2	15.20	18.6	10,242 ¹
Gannon 6	82.6	0	17.4	10,453 ²
Big Bend 1	60.3	27.4	12.3	10,311 ³
Big Bend 2	85.4	0	14.6	10,311 ⁴
Big Bend 3	81.9	0	18.1	10,051 ⁵
Big Bend 4	69.6	22.8	7.6	9,945 ⁶

¹ Original Sheet 7.401.98E, Pg. 13

² Original Sheet 7.401.98E, Pg. 14

³ Original Sheet 7.401.98E, Pg. 15

⁴ Original Sheet 7.401.98E, Pg. 16

⁵ Original Sheet 7.401.98E, Pg. 17

⁶ Original Sheet 7.401.98E, Pg. 18

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
OCTOBER 1998 - DECEMBER 1998
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**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
REWARD / PENALTY TABLE - ESTIMATED
OCTOBER 1998 - DECEMBER 1998**

<u>GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)</u>
+10	2,610.5	1,205.6
+9	2,349.5	1,085.0
+8	2,088.4	964.5
+7	1,827.4	843.9
+6	1,566.3	723.3
+5	1,305.3	602.8
+4	1,044.2	482.2
+3	783.2	361.7
+2	522.1	241.1
+1	261.1	120.6
0	0	0.0
-1	(347.9)	(120.6)
-2	(695.7)	(241.1)
-3	(1,043.6)	(361.7)
-4	(1,391.4)	(482.2)
-5	(1,739.3)	(602.8)
-6	(2,087.2)	(723.3)
-7	(2,435.0)	(843.9)
-8	(2,782.9)	(964.5)
-9	(3,130.7)	(1,085.0)
-10	(3,478.6)	(1,205.6)

**TAMPA ELECTRIC COMPANY
 GENERATING PERFORMANCE INCENTIVE FACTOR
 CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS
 ESTIMATED
 OCTOBER 1998 - DECEMBER 1998**

Line 1	Beginning of period balance of common equity End of month common equity:		\$1,194,070,000
Line 2	Month of October	1998	\$1,179,801,000
Line 3	Month of November	1998	\$1,191,353,000
Line 4	Month of December	1998	\$1,203,019,000
Line 5	(summation of line 1 through line 4 divided by 4)		\$1,192,060,750
Line 6	25 Basis points		0.0025
Line 7	Revenue expansion factor		61.3738%
Line 8	Maximum allowed incentive Dollars (Line 8 times line 9 divided by line 10 times 0.25)		\$1,213,935
Line 9	Jurisdictional Sales		3711653 MWH
Line 10	Total Sales		3737411 MWH
Line 11	Jurisdictional Separation Factor (Line 9 divided by line 10)		99.31%
Line 12	Maximum Allowed Jurisdictional Incentive Dollars (Line 8 times line 11)		\$1,205,569

TAMPA ELECTRIC COMPANY
GPIF TARGET AND RANGE SUMMARY
OCTOBER 1998 - DECEMBER 1998

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>
GANNON 5	4.17%	66.2	70.7	57.3	108.9	(220.0)
GANNON 6	6.13%	82.6	86.1	75.6	159.9	(284.2)
BIG BEND 1	6.73%	60.3	64.1	52.6	175.6	(306.0)
BIG BEND 2	6.48%	85.4	88.3	79.6	169.2	(271.3)
BIG BEND 3	9.09%	81.9	85.5	74.7	237.3	(420.5)
BIG BEND 4	4.16%	69.6	72.3	64.3	<u>108.6</u>	<u>(325.6)</u>
GPIF SYSTEM	36.76%				959.5	(1,827.6)

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>MIN.</u>	<u>MAX.</u>		
GANNON 5	8.81%	10242	86.2	9723	10761	230.0	(230.0)
GANNON 6	11.76%	10453	83.6	10073	10833	307.0	(307.0)
BIG BEND 1	8.54%	10311	72.2	9958	10664	223.0	(223.0)
BIG BEND 2	11.65%	10311	71.6	9948	10674	304.0	(304.0)
BIG BEND 3	14.14%	10051	82.5	9664	10438	369.0	(369.0)
BIG BEND 4	<u>8.34%</u>	9945	94.2	9702	10188	<u>218.0</u>	<u>(218.0)</u>
GPIF SYSTEM	63.24%					1,651.0	(1,651.0)

TAMPA ELECTRIC COMPANY
COMPARISON OF OPI TARGETS VS PRIOR PERIOD ACTUAL PERFORMANCE

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD OCT 16 - DEC 16		ACTUAL PERFORMANCE OCT 16 - DEC 16		ACTUAL PERFORMANCE OCT 16 - DEC 16		ACTUAL PERFORMANCE OCT 16 - DEC 16		ACTUAL PERFORMANCE OCT 16 - DEC 16						
			POP	ELDER	POP	ELDER	POP	ELDER	POP	ELDER	POP	ELDER					
BIG BOND 1	4.7%	18.3	27.4	12.3	17.0	0.0	13.1	13.1	7.7	12.7	13.8	0.0	9.8	10.3	0.0	14.8	14.8
BIG BOND 2	4.6%	17.6	0.0	14.6	14.6	0.0	21.6	21.6	17.5	15.3	18.8	0.0	21.5	16.3	4.8	6.0	4.0
BIG BOND 3	9.6%	34.7	0.0	18.1	18.1	0.0	19.2	19.2	0.0	13.7	13.7	0.0	17.0	14.8	0.0	14.8	3.4
BIG BOND 4	4.1%	11.3	22.8	7.6	9.8	0.0	3.8	3.8	0.0	6.4	6.4	0.0	3.1	0.0	9.8	0.0	5.0
GANNON 3	4.7%	11.3	13.2	18.6	21.9	20.0	16.4	33.2	13.9	27.1	31.1	40.7	9.4	24.4	0.0	7.8	8.1
GANNON 6	6.1%	16.7	0.0	17.4	17.4	0.0	25.0	25.0	0.0	13.0	13.0	7.7	12.4	13.3	11.0	7.4	8.3
GWP SYSTEM WOTD AVG	34.9%	99.9	9.3	15.2	16.6	5.7	17.4	19.3	5.9	14.4	15.6	8.3	13.3	13.1	12.2	10.0	11.9
GWP SYSTEM WEIGHTED EQUIVALENT AVAILABILITY			75.3			76.9			79.7			78.4			77.8		
3 PERIOD AVERAGE			POP	ELDER	ELDER	3 PERIOD AVERAGE			POP	ELDER	ELDER	3 PERIOD AVERAGE			POP	ELDER	ELDER
			8.3	12.3	14.3				79.0				78.6				

AVERAGE NET OPERATING HEAT RATE (Btu/kWh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE TARGET		ADJUSTED PRIOR PERIOD HEAT RATE		ADJUSTED PRIOR PERIOD HEAT RATE	
			POP	ELDER	OCT 16 - DEC 16	OCT 16 - DEC 16	OCT 16 - DEC 16	OCT 16 - DEC 16
GANNON 3	8.8%	13.9	10242	10119	10204	10218	10218	
GANNON 6	11.7%	18.6	10473	10289	10296	10296	10307	
BIG BOND 1	8.3%	13.3	10511	10120	10228	10204	10204	
BIG BOND 2	11.6%	18.4	10511	10177	10200	10164	10164	
BIG BOND 3	14.3%	22.4	10651	10284	10293	10284	10284	
BIG BOND 4	8.3%	13.2	10445	10194	10194	10194	10194	
GWP SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kWh)	43.34%	106.0	10221	10118	10193	10174	10174	

**TAMPA ELECTRIC COMPANY
DERIVATION OF WEIGHTING FACTORS
OCTOBER 1998 - DECEMBER 1998
PRODUCTION COSTING SIMULATION
FUEL COST (\$000)**

<u>UNIT PERFORMANCE INDICATOR</u>	<u>AT TARGET</u>	<u>IMPROVEMENT</u>	<u>SAVINGS</u>	<u>WEIGHTING FACTOR (% OF SAVINGS)</u>
EQUIVALENT AVAILABILITY				
EA ₁ GANNON 3	56823.1	56714.2	108.9	4.17%
EA ₂ GANNON 4	56823.1	56663.2	159.9	6.13%
EA ₃ BIG BEND 1	56823.1	56647.5	175.6	6.73%
EA ₄ BIG BEND 2	56823.1	56653.9	169.2	6.48%
EA ₅ BIG BEND 3	56823.1	56585.8	237.3	9.09%
EA ₆ BIG BEND 4	56823.1	56714.5	108.6	4.16%
HEAT RATE				
AHR ₁ GANNON 3	56823.1	56593.1	230.0	8.81%
AHR ₂ GANNON 4	56823.1	56516.1	307.0	11.76%
AHR ₃ BIG BEND 1	56823.1	56600.1	223.0	8.54%
AHR ₄ BIG BEND 2	56823.1	56519.1	304.0	11.65%
AHR ₅ BIG BEND 3	56823.1	56454.1	369.0	14.14%
AHR ₆ BIG BEND 4	56823.1	56605.1	218.0	8.34%
TOTAL SAVINGS			2610.5	100.00%

(1) Fuel Adjustment Base Case - All unit performance indicators at target.

(2) All other unit performance indicators at target.

(3) Expressed in replacement energy cost.

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
OCTOBER 1998 - DECEMBER 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	108.9	70.7	+10	230.0	9723
+9	98.0	70.3	+9	207.0	9767
+8	87.1	69.8	+8	184.0	9812
+7	76.2	69.4	+7	161.0	9856
+6	65.3	68.9	+6	138.0	9901
+5	54.5	68.5	+5	115.0	9945
+4	43.6	68.0	+4	92.0	9989
+3	32.7	67.6	+3	69.0	10034
+2	21.8	67.1	+2	46.0	10078
+1	10.9	66.7	+1	23.0	10123
				0.0	10167
0	0.0	66.2	0	0.0	10242
				0.0	10317
-1	(22.0)	65.3	-1	(23.0)	10361
-2	(44.0)	64.4	-2	(46.0)	10406
-3	(66.0)	63.5	-3	(69.0)	10450
-4	(88.0)	62.6	-4	(92.0)	10495
-5	(110.0)	61.8	-5	(115.0)	10539
-6	(132.0)	60.9	-6	(138.0)	10583
-7	(154.0)	60.0	-7	(161.0)	10628
-8	(176.0)	59.1	-8	(184.0)	10672
-9	(198.0)	58.2	-9	(207.0)	10717
-10	(220.0)	57.3	-10	(230.0)	10761
	Weighting Factor =	4.17%		Weighting Factor =	8.81%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
OCTOBER 1998 - DECEMBER 1998
GANNON 6

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	159.9	86.1	+10	307.0	10073
+9	143.9	85.8	+9	276.3	10104
+8	127.9	85.4	+8	245.6	10134
+7	111.9	85.1	+7	214.9	10165
+6	95.9	84.7	+6	184.2	10195
+5	80.0	84.4	+5	153.5	10226
+4	64.0	84.0	+4	122.8	10256
+3	48.0	83.7	+3	92.1	10287
+2	32.0	83.3	+2	61.4	10317
+1	16.0	83.0	+1	30.7	10348
				0.0	10378
0	0.0	82.6	0	0.0	10453
				0.0	10528
-1	28.4	81.9	-1	(30.7)	10559
-2	56.8	81.2	-2	(61.4)	10589
-3	85.3	80.5	-3	(92.1)	10620
-4	113.7	79.8	-4	(122.8)	10650
-5	142.1	79.1	-5	(153.5)	10681
-6	170.5	78.4	-6	(184.2)	10711
-7	198.9	77.7	-7	(214.9)	10742
-8	227.4	77.0	-8	(245.6)	10772
-9	255.8	76.3	-9	(276.3)	10803
-10	284.2	75.6	-10	(307.0)	10833
	Weighting Factor =	6.13%		Weighting Factor =	11.76%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
OCTOBER 1998 - DECEMBER 1998
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	175.6	64.1	+10	223.0	9958
+9	158.0	63.7	+9	200.7	9986
+8	140.5	63.3	+8	178.4	10014
+7	122.9	63.0	+7	156.1	10041
+6	105.4	62.6	+6	133.8	10069
+5	87.8	62.2	+5	111.5	10097
+4	70.2	61.8	+4	89.2	10125
+3	52.7	61.4	+3	66.9	10153
+2	35.1	61.1	+2	44.6	10180
+1	17.6	60.7	+1	22.3	10208
				0.0	10236
0	0.0	60.3	0	0.0	10311
				0.0	10386
-1	30.6	59.5	-1	(22.3)	10414
-2	61.2	58.8	-2	(44.6)	10442
-3	91.8	58.0	-3	(66.9)	10469
-4	122.4	57.2	-4	(89.2)	10497
-5	153.0	56.5	-5	(111.5)	10525
-6	183.6	55.7	-6	(133.8)	10553
-7	214.2	54.9	-7	(156.1)	10581
-8	244.8	54.1	-8	(178.4)	10608
-9	275.4	53.4	-9	(200.7)	10636
-10	306.0	52.6	-10	(223.0)	10664
	Weighting Factor =	6.73%		Weighting Factor =	8.54%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
OCTOBER 1998 - DECEMBER 1998
BIG BEND 2

<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	169.2	88.3	+10	304.0	9948
+9	152.3	88.0	+9	273.6	9977
+8	135.4	87.7	+8	243.2	10006
+7	118.4	87.4	+7	212.8	10034
+6	101.5	87.1	+6	182.4	10063
+5	84.6	86.9	+5	152.0	10092
+4	67.7	86.6	+4	121.6	10121
+3	50.8	86.3	+3	91.2	10150
+2	33.8	86.0	+2	60.8	10178
+1	16.9	85.7	+1	30.4	10207
				0.0	10236
0	0.0	85.4	0	0.0	10311
				0.0	10386
-1	(27.1)	84.8	-1	(30.4)	10415
-2	(54.3)	84.2	-2	(60.8)	10444
-3	(81.4)	83.7	-3	(91.2)	10472
-4	(108.5)	83.1	-4	(121.6)	10501
-5	(135.7)	82.5	-5	(152.0)	10530
-6	(162.8)	81.9	-6	(182.4)	10559
-7	(189.9)	81.3	-7	(212.8)	10588
-8	(217.0)	80.8	-8	(243.2)	10616
-9	(244.2)	80.2	-9	(273.6)	10645
-10	(271.3)	79.6	-10	(304.0)	10674
	Weighting Factor =	6.48%		Weighting Factor =	11.65%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
OCTOBER 1998 - DECEMBER 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	237.3	85.5	+10	369.0	9664
+9	213.6	85.1	+9	332.1	9695
+8	189.8	84.8	+8	295.2	9726
+7	166.1	84.4	+7	258.3	9758
+6	142.4	84.1	+6	221.4	9789
+5	118.7	83.7	+5	184.5	9820
+4	94.9	83.3	+4	147.6	9851
+3	71.2	83.0	+3	110.7	9882
+2	47.5	82.6	+2	73.8	9914
+1	23.7	82.3	+1	36.9	9945
				0.0	9976
0	0.0	81.9	0	0.0	10051
				0.0	10126
-1	42.1	81.2	-1	(36.9)	10157
-2	84.1	80.5	-2	(73.8)	10188
-3	126.2	79.7	-3	(110.7)	10220
-4	168.2	79.0	-4	(147.6)	10251
-5	210.3	78.3	-5	(184.5)	10282
-6	252.3	77.6	-6	(221.4)	10313
-7	294.4	76.9	-7	(258.3)	10344
-8	336.4	76.1	-8	(295.2)	10376
-9	378.5	75.4	-9	(332.1)	10407
-10	420.5	74.7	-10	(369.0)	10438
	Weighting Factor =	9.09%		Weighting Factor =	14.14%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
OCTOBER 1998 - DECEMBER 1998
BIG BEND 4

<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	108.6	72.3	+10	218.0	9702
+9	97.7	72.0	+9	196.2	9719
+8	86.9	71.8	+8	174.4	9736
+7	76.0	71.5	+7	152.6	9752
+6	65.2	71.2	+6	130.8	9769
+5	54.3	71.0	+5	109.0	9786
+4	43.4	70.7	+4	87.2	9803
+3	32.6	70.4	+3	65.4	9820
+2	21.7	70.1	+2	43.6	9836
+1	10.9	69.9	+1	21.8	9853
				0.0	9870
0	0.0	69.6	0	0.0	9945
				0.0	10020
-1	32.6	69.1	-1	(21.8)	10037
-2	65.1	68.5	-2	(43.6)	10054
-3	97.7	68.0	-3	(65.4)	10070
-4	130.2	67.5	-4	(87.2)	10087
-5	162.8	67.0	-5	(109.0)	10104
-6	195.4	66.4	-6	(130.8)	10121
-7	227.9	65.9	-7	(152.6)	10138
-8	260.5	65.4	-8	(174.4)	10154
-9	293.0	64.8	-9	(196.2)	10171
-10	325.6	64.3	-10	(218.0)	10188
	Weighting Factor =	4.16%		Weighting Factor =	2.34%

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	42.8	78.1	78.1	66.2
2. POF	45.1	0.0	0.0	15.2
3. EUOF	12.1	21.9	21.9	18.6
4. EUOR	22.0	21.9	21.9	21.9
5. PH	745	720	744	2209
6. SH	293	598	612	1503
7. RSH	0	0	0	0
8. UH	452	122	132	706
9. POH	336	0	0	336
10. FOH & EFOH	79	139	144	362
11. MOH & EMOH	11	19	19	49
12. OPER BTU (GBTU)	590,372	1,261,932	1,226,549	3,078,853
13. NET GEN (MWH)	56792	123722	120106	300620
14. ANOHR (BTU/KWH)	10395	10200	10212	10242
15. NOF (%)	83.5	89.2	84.6	86.2
16. NSC (MW)	232	232	232	232
17. ANOHR EQUATION	ANOHR = NOF(-20.2694) + 11988.9			

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DOCKET NO.: 980001-E1
ORDER NO.:

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
GANNON 8				
1. EAF (%)	82.6	82.6	82.6	82.6
2. POF	0.0	0.0	0.0	0.0
3. EUOF	17.4	17.4	17.4	17.4
4. EUOR	17.4	17.4	17.4	17.4
5. PH	745	720	744	2209
6. SH	552	633	529	1714
7. RSH	0	0	0	0
8. UH	193	87	215	495
9. POH	0	0	0	0
10. FOH & EFOH	98	95	98	292
11. MOH & EMOH	31	30	31	93
12. OPER BTU (GBTU)	1849.328	2227.277	1794.060	5870.665
13. NET GEN (MWH)	175864	212972	172807	561643
14. ANOHR (BTU/KWH)	10516	10458	10382	10453
15. NOF (%)	61.3	85.8	83.3	83.6
16. NSC (MW)	392	392	392	392
17. ANOHR EQUATION	ANOHR = NOF(-7.7732) + 11102.5			

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TAMPA ELECTRIC COMPANY
ESTIMATED UNIT PERFORMANCE DATA
OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF: OCT 98	MONTH OF: NOV 98	MONTH OF: DEC 98	PERIOD 4TH QTR 1998
BIG BEND 1				
1. EAF (%)	83.1	62.9	34.8	60.3
2. POF	0.0	24.2	58.1	27.4
3. EUOF	16.9	12.9	7.1	12.3
4. EUOR	16.9	17.0	17.0	17.0
5. PH	745	720	744	2209
6. SH	639	557	267	1463
7. RSH	0	0	0	0
8. UH	106	163	477	746
9. POH	0	174	432	606
10. FOH & EFOH	73	54	31	158
11. MOH & EMOH	53	39	22	114
12. OPER BTU (GBTU)	2037.560	1817.239	840.116	4694.915
13. NET GEN (MWH)	196255	177165	81922	455342
14. ANOHR (BTU/KWH)	10382	10257	10255	10311
15. NOF (%)	71.3	73.8	71.2	72.2
16. NSC (MW)	431	431	431	431
17. ANOHR EQUATION	$ANOHR = NOF(-17.5714) + 11579.4$			

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ORDER NO.:

TAMPA ELECTRIC COMPANY
ESTIMATED UNIT PERFORMANCE DATA
OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF: OCT 98	MONTH OF: NOV 98	MONTH OF: DEC 98	PERIOD 4TH QTR 1998
BIG BEND 2				
1. EAF (%)	85.4	85.4	85.5	85.4
2. POF	0.0	0.0	0.0	0.0
3. EUOF	14.6	14.6	14.5	14.6
4. EUOR	14.6	14.6	14.5	14.6
5. PH	745	720	744	2209
6. SH	662	641	662	1965
7. RSH	0	0	0	0
8. UH	83	79	82	244
9. POH	0	0	0	0
10. FOH & EFOH	72	69	71	212
11. MOH & EMOH	37	36	37	110
12. OPER BTU (GBTU)	2086.735	2030.666	2135.555	6252.956
13. NET GEN (MWH)	202018	197024	207380	606422
14. ANOHR (BTU/KWH)	10329	10307	10298	10311
15. NOF (%)	70.8	71.3	72.7	71.6
16. NSC (MW)	431	431	431	431
17. ANOHR EQUATION	ANOHR = NOF(-18.2412) + 11617.3			

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TAMPA ELECTRIC COMPANY
ESTIMATED UNIT PERFORMANCE DATA
OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 3	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	81.9	81.9	82.0	81.9
2. POF	0.0	0.0	0.0	0.0
3. EUOF	18.1	18.1	18.0	18.1
4. EUOR	18.1	18.1	18.0	18.1
5. PH	745	720	744	2209
6. SH	658	637	658	1953
7. RSH	0	0	0	0
8. UH	87	83	86	256
9. POH	0	0	0	0
10. FOH & EFOH	92	88	91	271
11. MOH & EMOH	43	42	43	128
12. OPER BTU (GBTU)	2400.639	2323.643	2369.098	7093.380
13. NET GEN (MWH)	238909	231285	235577	705771
14. ANOHR (BTU/KWH)	10048	10047	10057	10051
15. NOF (%)	82.9	82.9	81.7	82.5
16. NSC (MW)	438	438	438	438
17. ANOHR EQUATION	ANOHR = NOF(-29.4092) + 12476.8			

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TAMPA ELECTRIC COMPANY
ESTIMATED UNIT PERFORMANCE DATA
OCTOBER 1998 - DECEMBER 1998

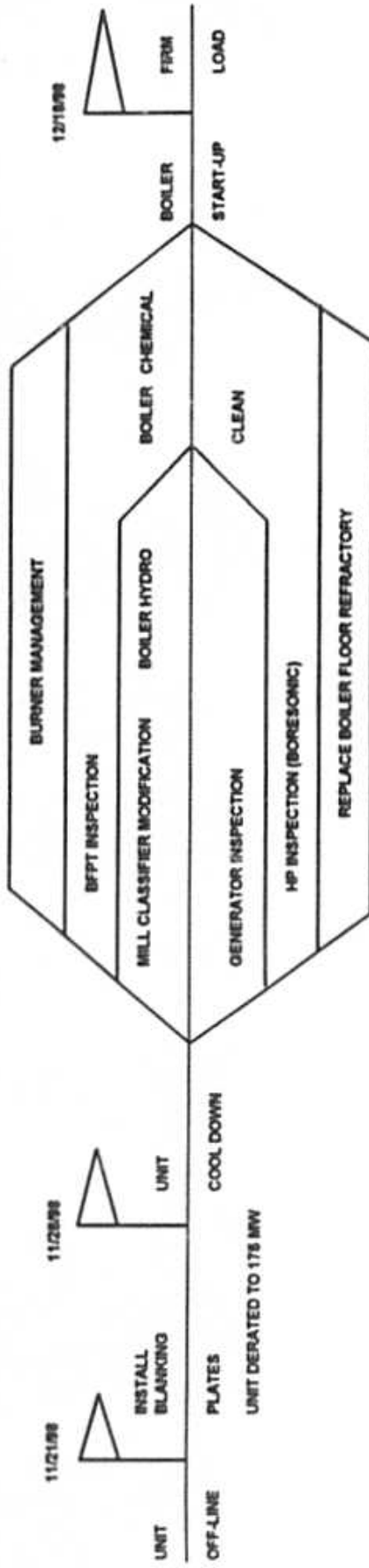
PLANT/UNIT	MONTH OF: OCT 98	MONTH OF: NOV 98	MONTH OF: DEC 98	PERIOD 4TH QTR 1998
BIG BEND 4				
1. EAF (%)	90.2	27.1	90.2	69.6
2. POF	0.0	70.0	0.0	22.8
3. EUOF	9.8	2.9	9.8	7.6
4. EUOR	9.8	9.7	9.8	9.8
5. PH	745	720	744	2209
6. SH	684	199	684	1567
7. RSH	0	0	0	0
8. UH	61	521	60	642
9. POH	0	504	0	504
10. FOH & EFOH	34	10	34	78
11. MOH & EMOH	39	11	39	89
12. OPER BTU (GBTU)	2875.736	843.429	2846.070	6565.235
13. NET GEN (MWH)	288826	84719	286611	660156
14. ANOHR (BTU/KWH)	9957	9956	9930	9945
15. NOF (%)	94.5	95.2	93.7	94.2
16. NSC (MW)	447	447	447	447
17. ANOHR EQUATION	ANOHR = NOF(-13.6351) + 11229.4			

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TAMPA ELECTRIC COMPANY
PLANNED OUTAGE SCHEDULE (ESTIMATED)
GPIF UNITS
OCTOBER 1998 - DECEMBER 1998

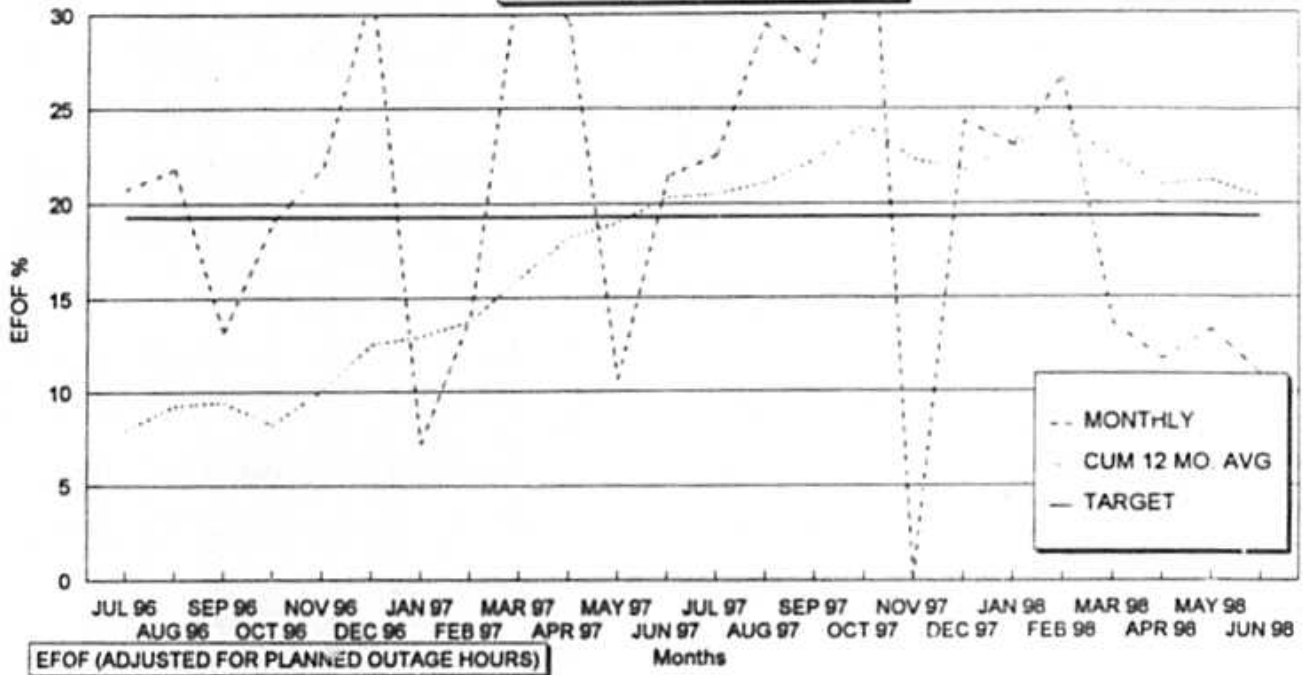
PLANT / UNIT	PLANNED OUTAGE DATES	OUTAGE DISCRPTION
BIG BEND 1	NOV 21 - NOV 27	INSTALL BLANKING PLATES
BIG BEND 1	NOV 28 - DEC 18	CHEMICAL CLEAN REPL. FURNACE FLOOR REF. HP INSP. (BORESONIC) BURNER MANAGEMENT MILL CLASSIFIER MODIFICATION GENERATOR INSP. BFPT INSPECTION
+ BIG BEND 4	NOV 07 - NOV 27	FUEL SYSTEM CLEAN-UP
+ GANNON 5	OCT 17 - OCT 30	FUEL SYSTEM CLEAN-UP

- * OUTAGE START / END DATE OUT OF GPIF PERIOD
- + CPM WAS NOT INCLUDED FOR THIS UNIT, OUTAGE IS LESS THAN 2 WEEKS



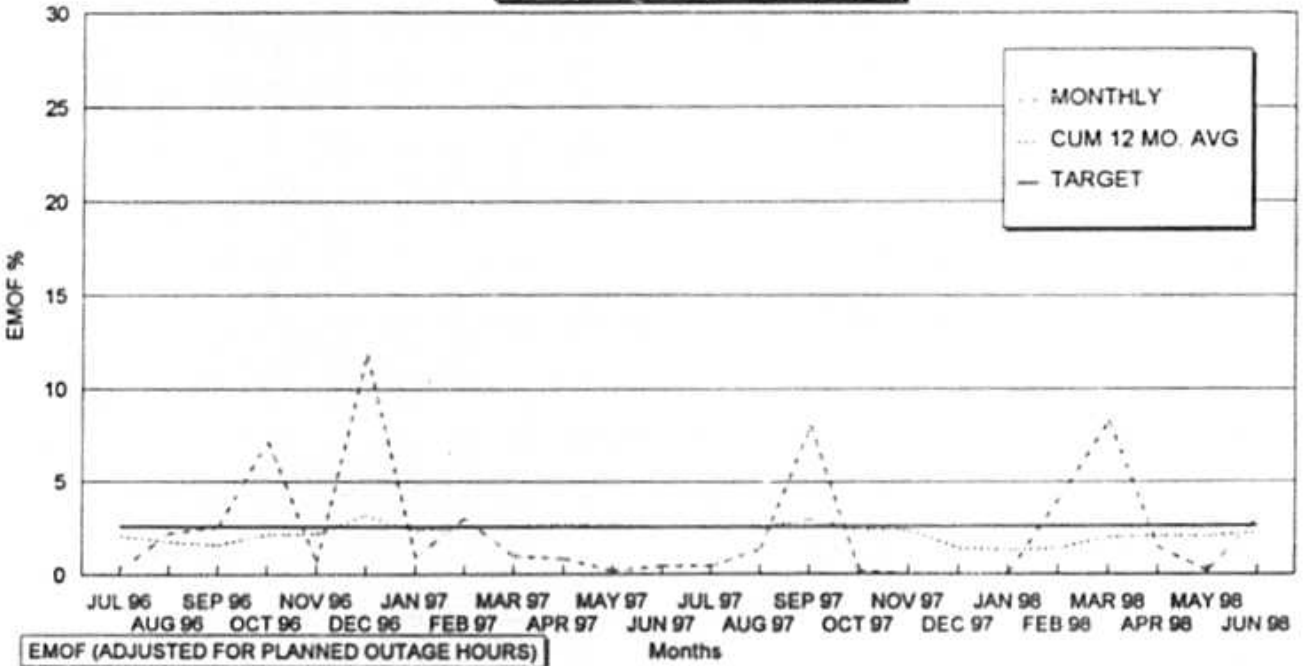
TAMPA ELECTRIC COMPANY
BIG BEND UNIT NUMBER 1
PLANNED OUTAGE 1998
PROJECTED CPM
189E/98

Gannon Unit 5
 EFOF



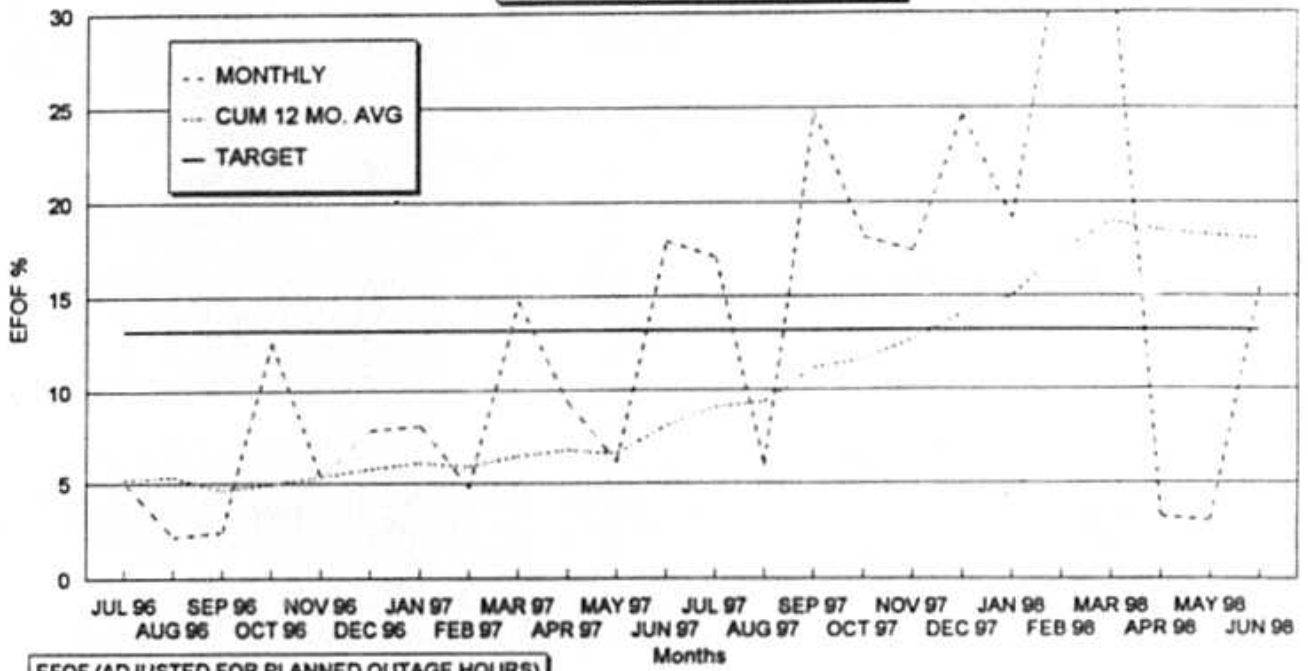
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

Gannon Unit 5
 EMOF



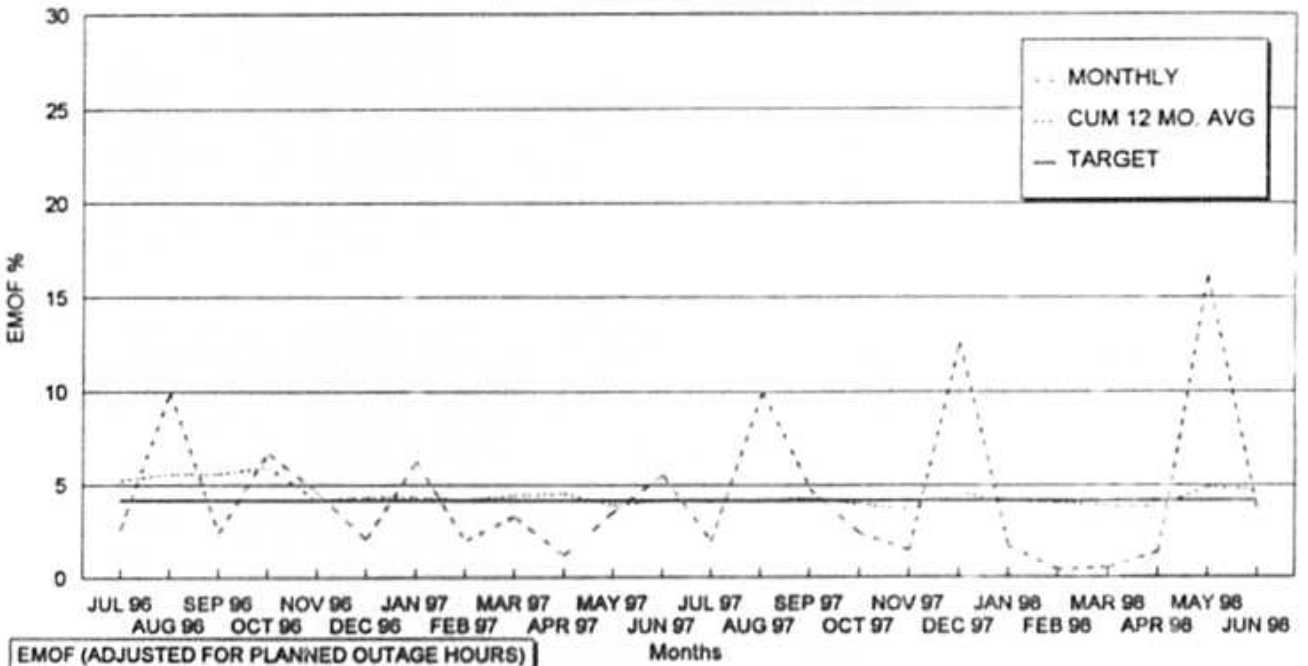
EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

Gannon Unit 6
EFOF



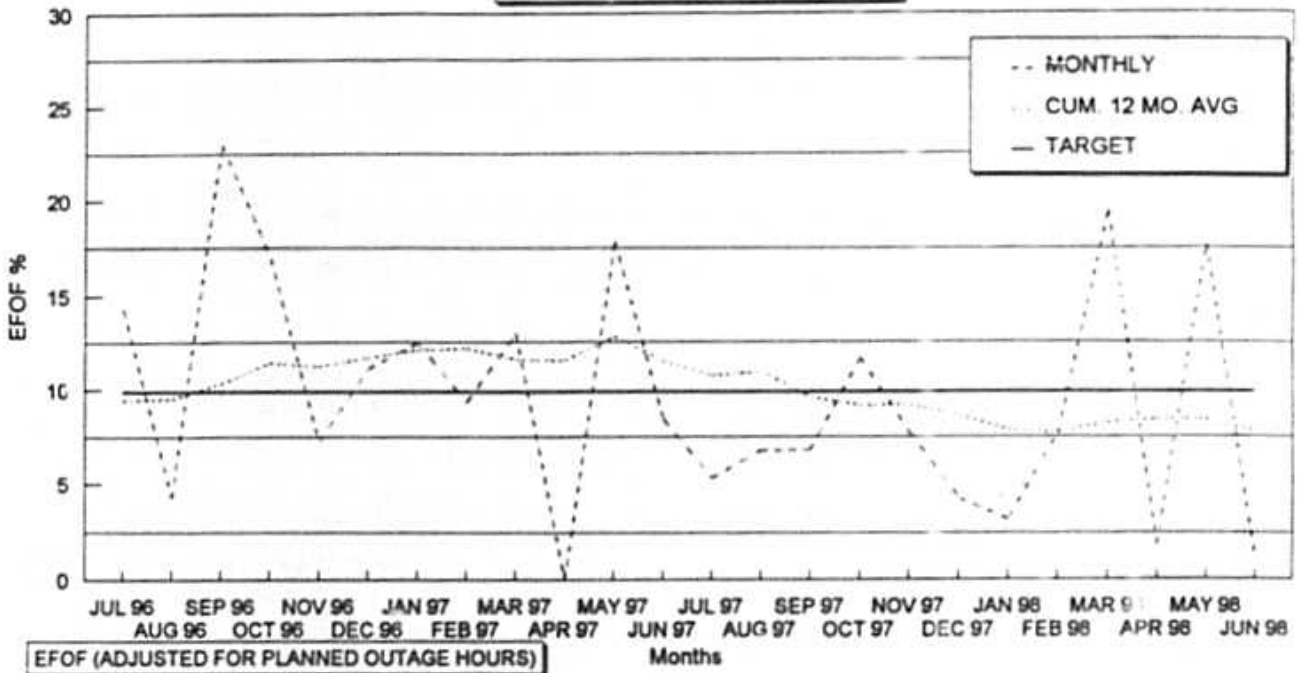
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

Gannon Unit 6
EMOF

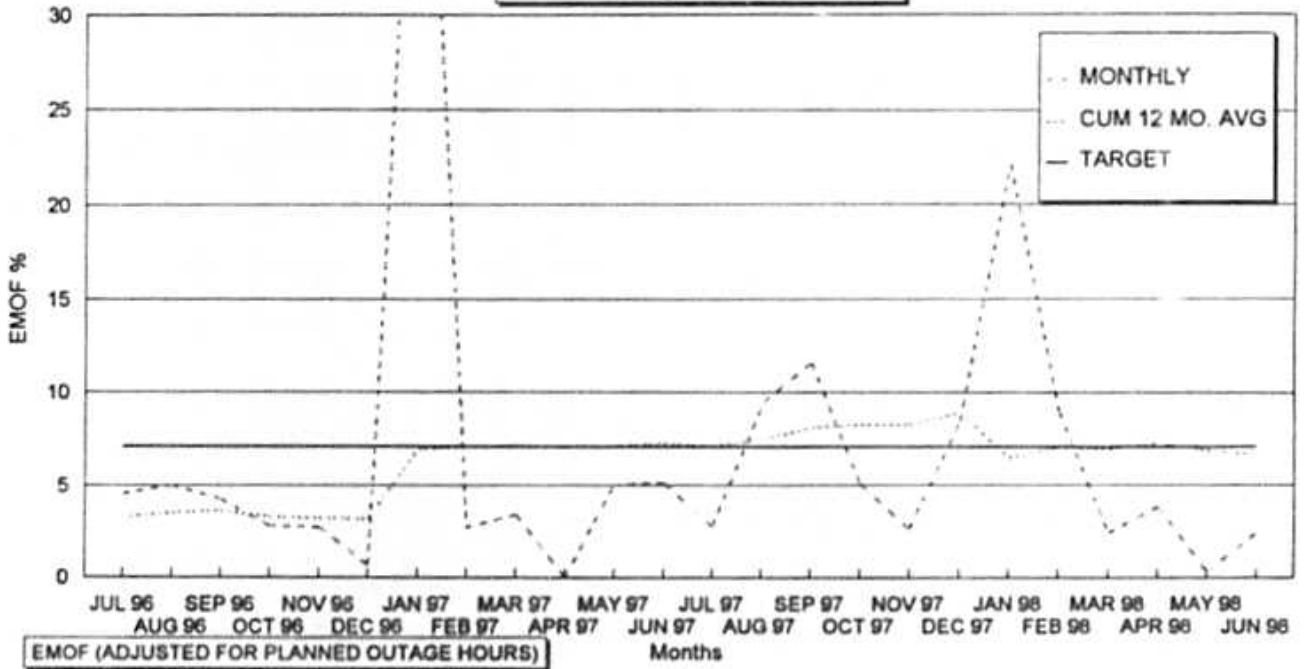


EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

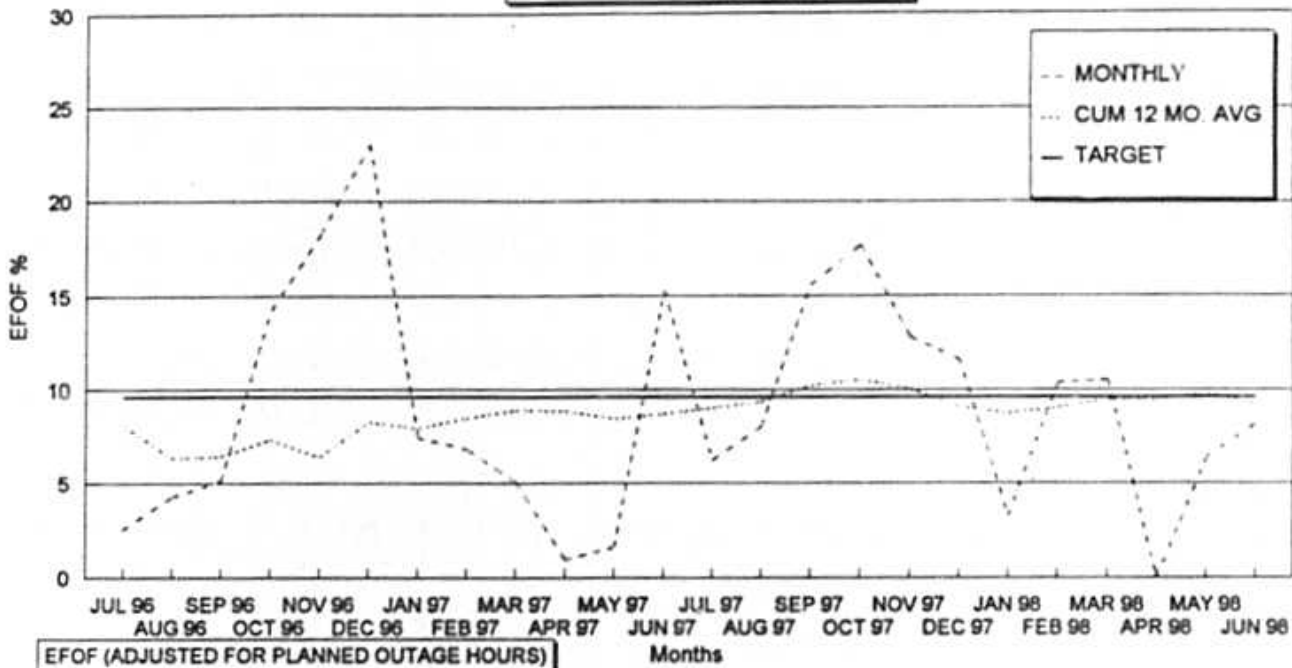
Big Bend Unit 1 EFOF



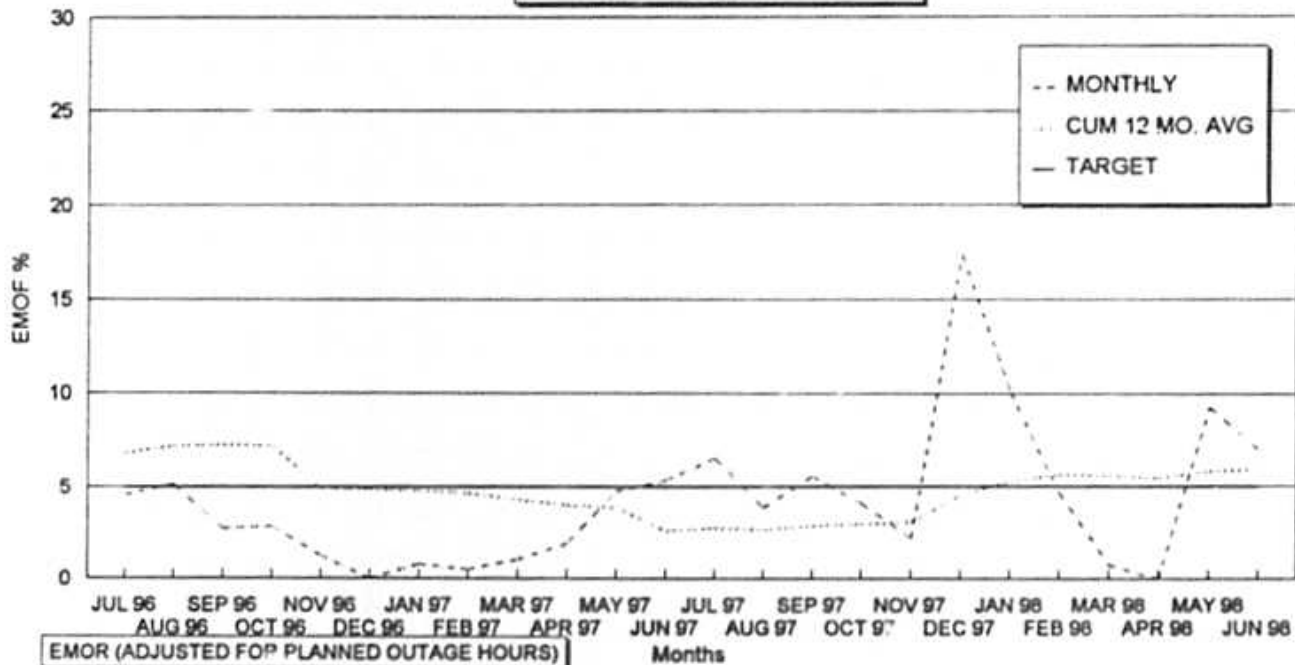
Big Bend Unit 1 EMOF



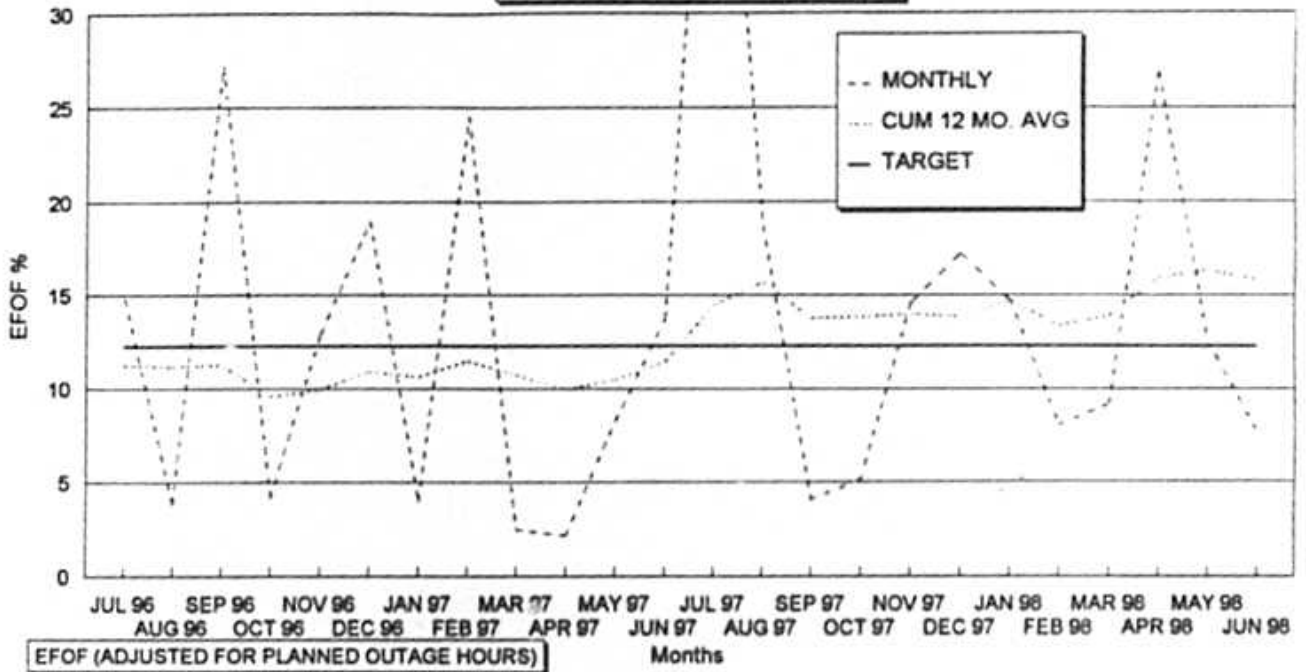
Big Bend Unit 2
 EFOF



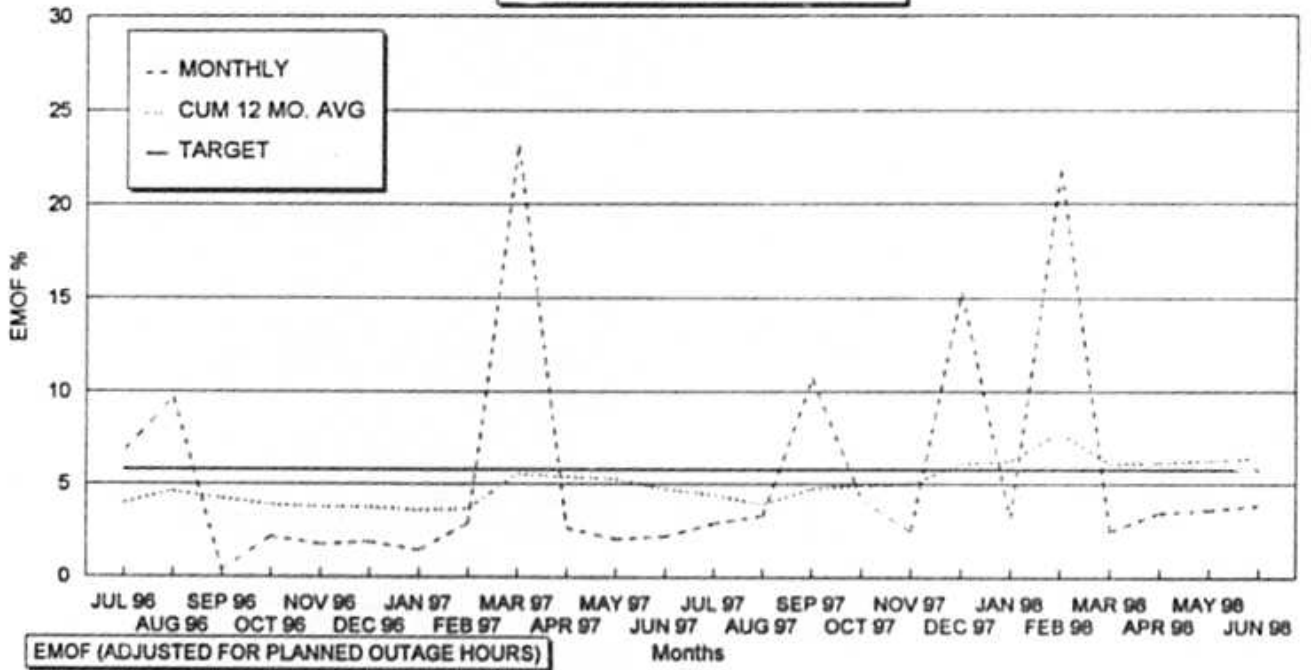
Big Bend Unit 2
 EMOF



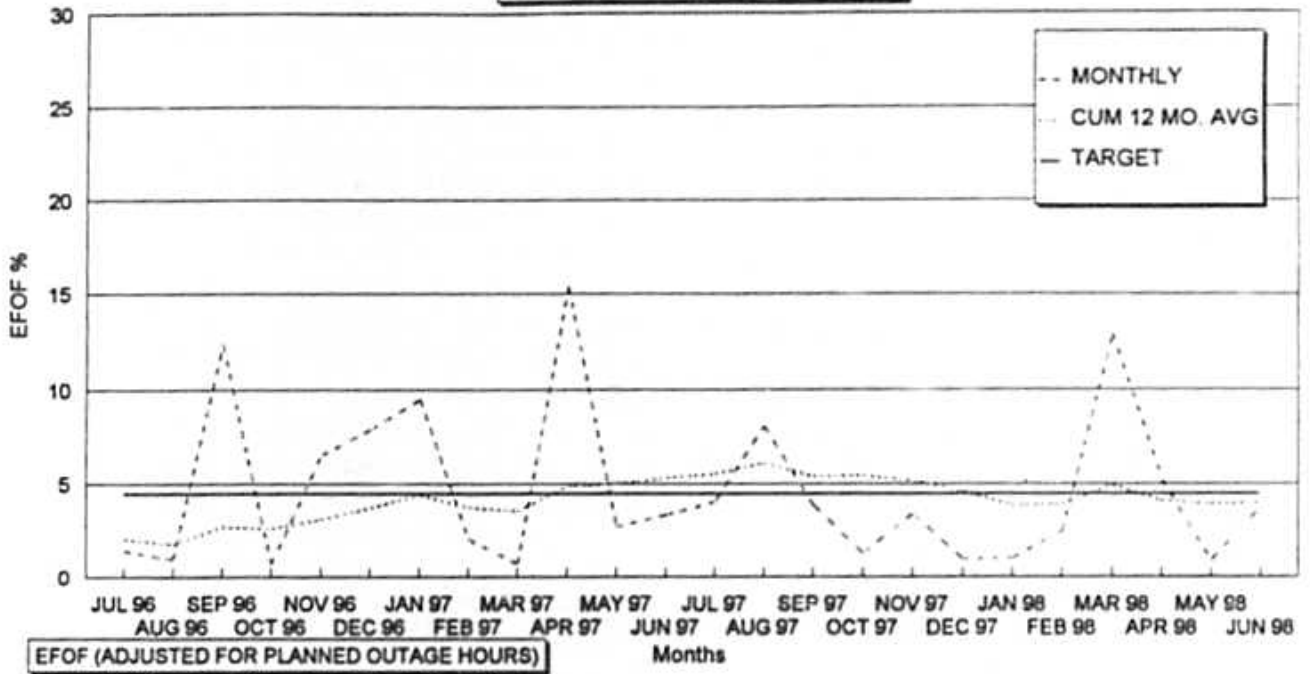
Big Bend Unit 3
EFOF



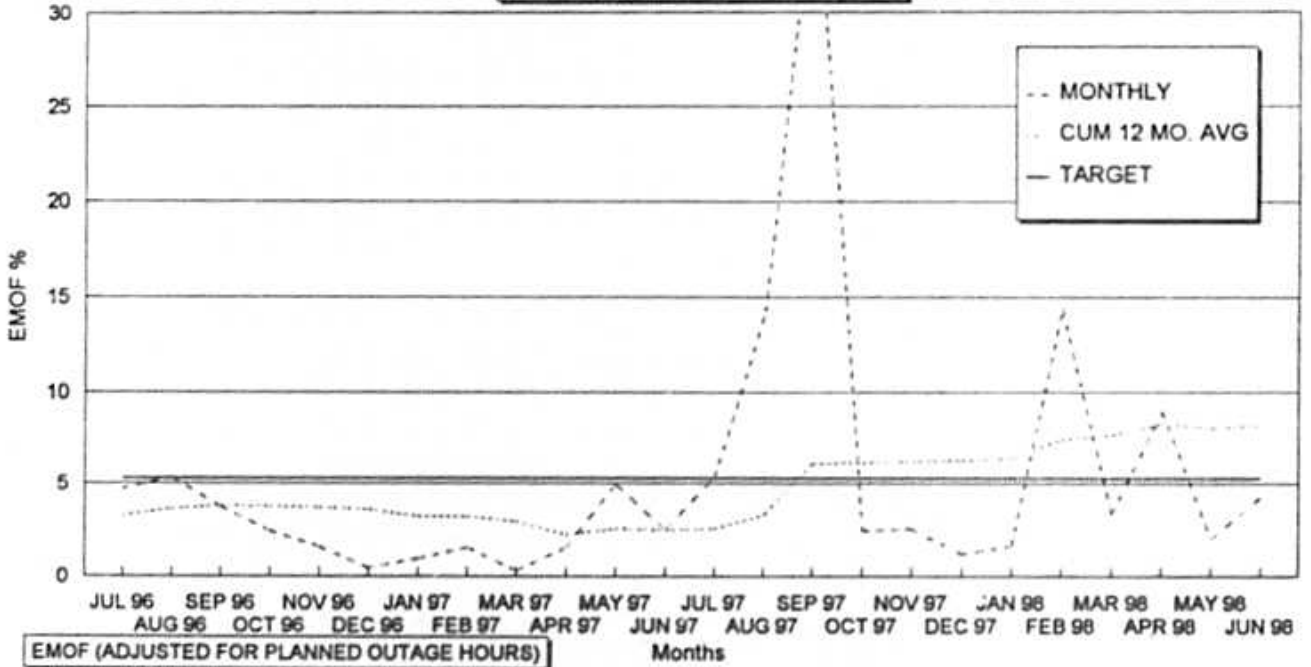
Big Bend Unit 3
EMOF



Big Bend Unit 4
 EFOF



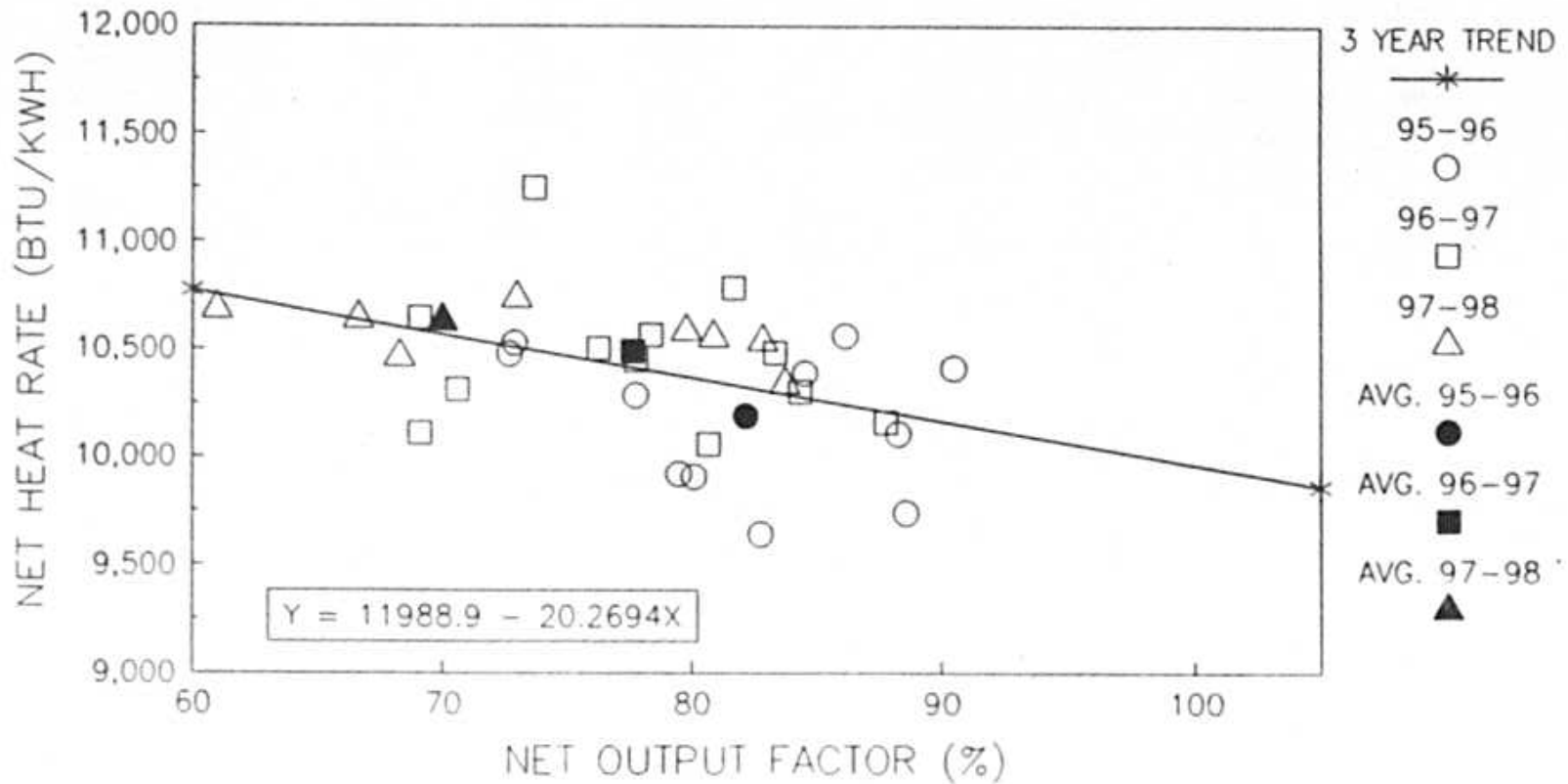
Big Bend Unit 4
 EMOF



TAMPA ELECTRIC COMPANY

HEAT RATE VS. NET OUTPUT FACTOR

GANNON 5, 4th QTR 1998

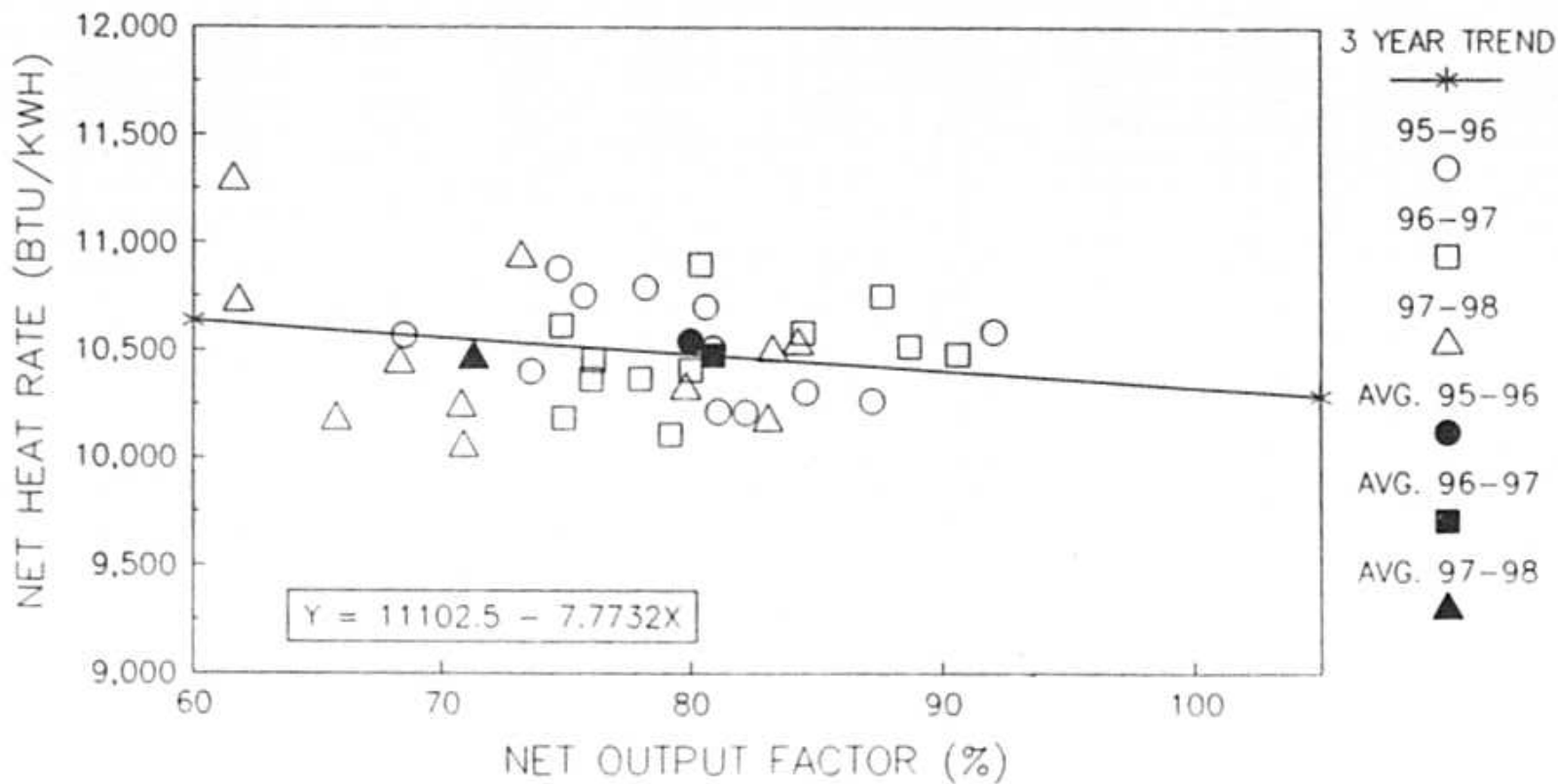


TARGET NET HEAT RATE: 10242
 TARGET NET OUTPUT FACTOR: 86.2%

TAMPA ELECTRIC COMPANY

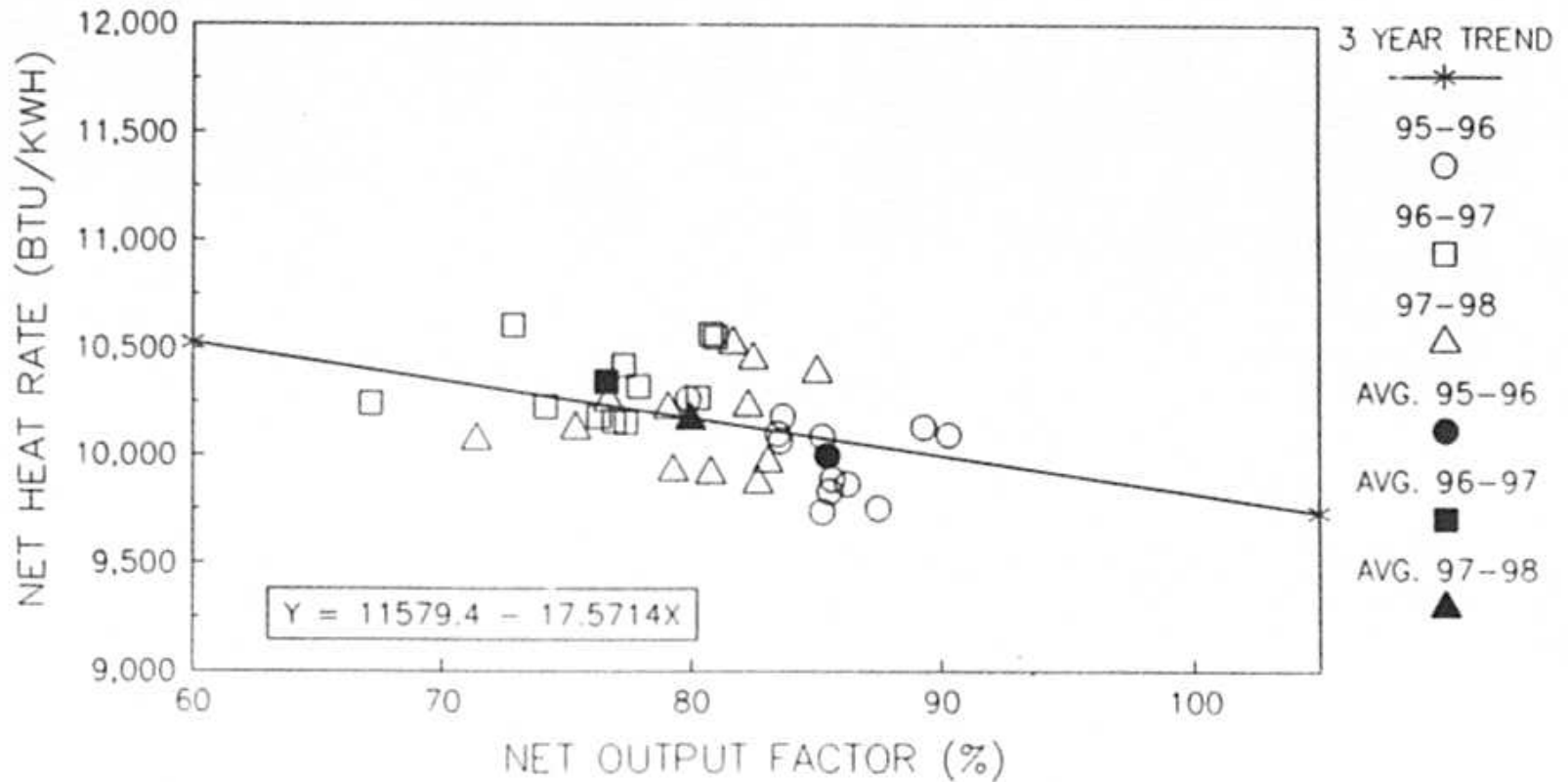
HEAT RATE VS. NET OUTPUT FACTOR

GANNON 6, 4th QTR 1998



TARGET NET HEAT RATE: 10453
 TARGET NET OUTPUT FACTOR: 83.6%

TAMPA ELECTRIC COMPANY
 HEAT RATE VS. NET OUTPUT FACTOR
 BIG BEND 1, 4th Quarter 1998

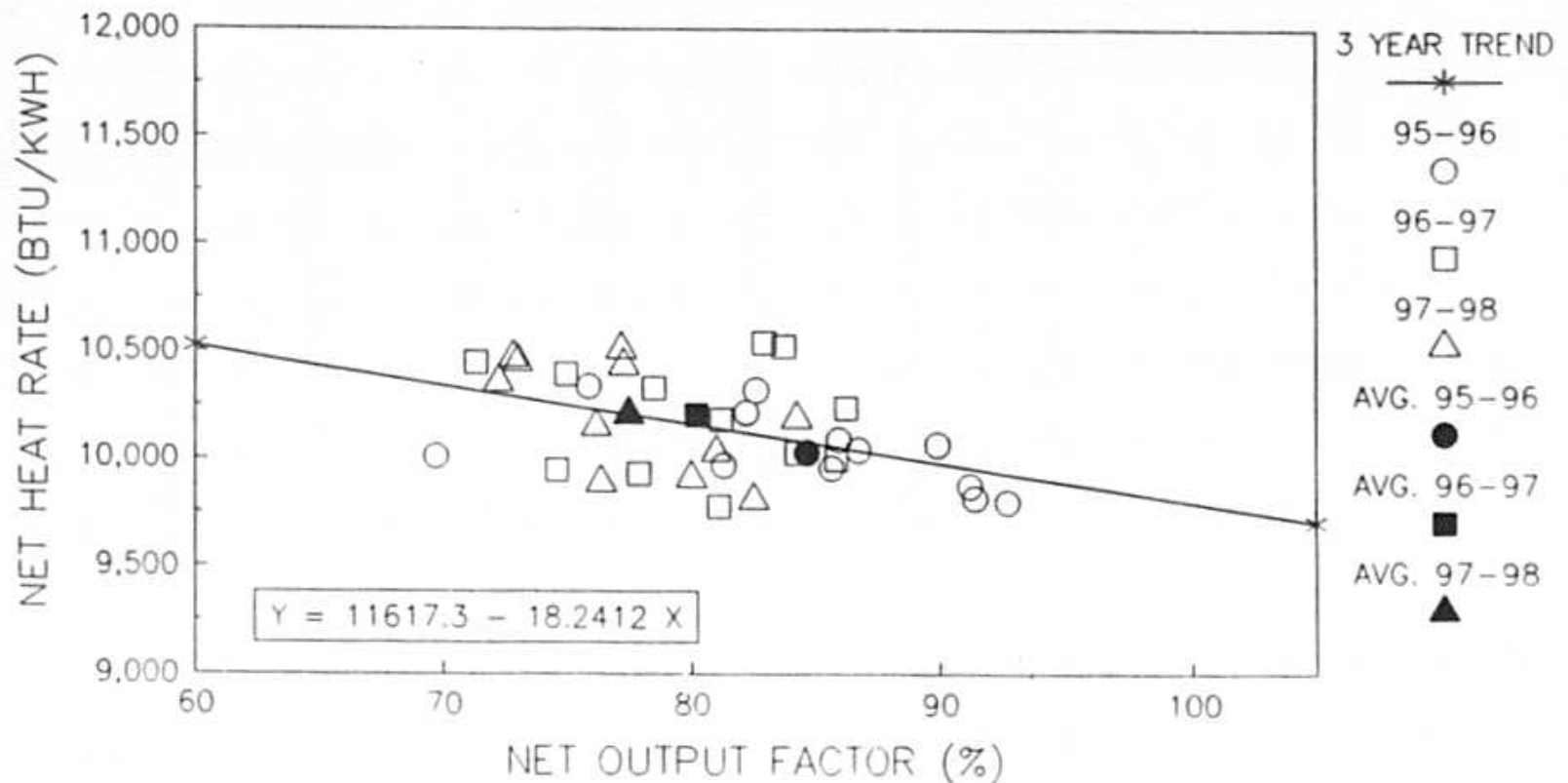


TARGET NET HEAT RATE: 10311
 TARGET NET OUTPUT FACTOR: 72.2%

TAMPA ELECTRIC COMPANY

HEAT RATE VS. NET OUTPUT FACTOR

BIG BEND 2, 4th QTR 1998

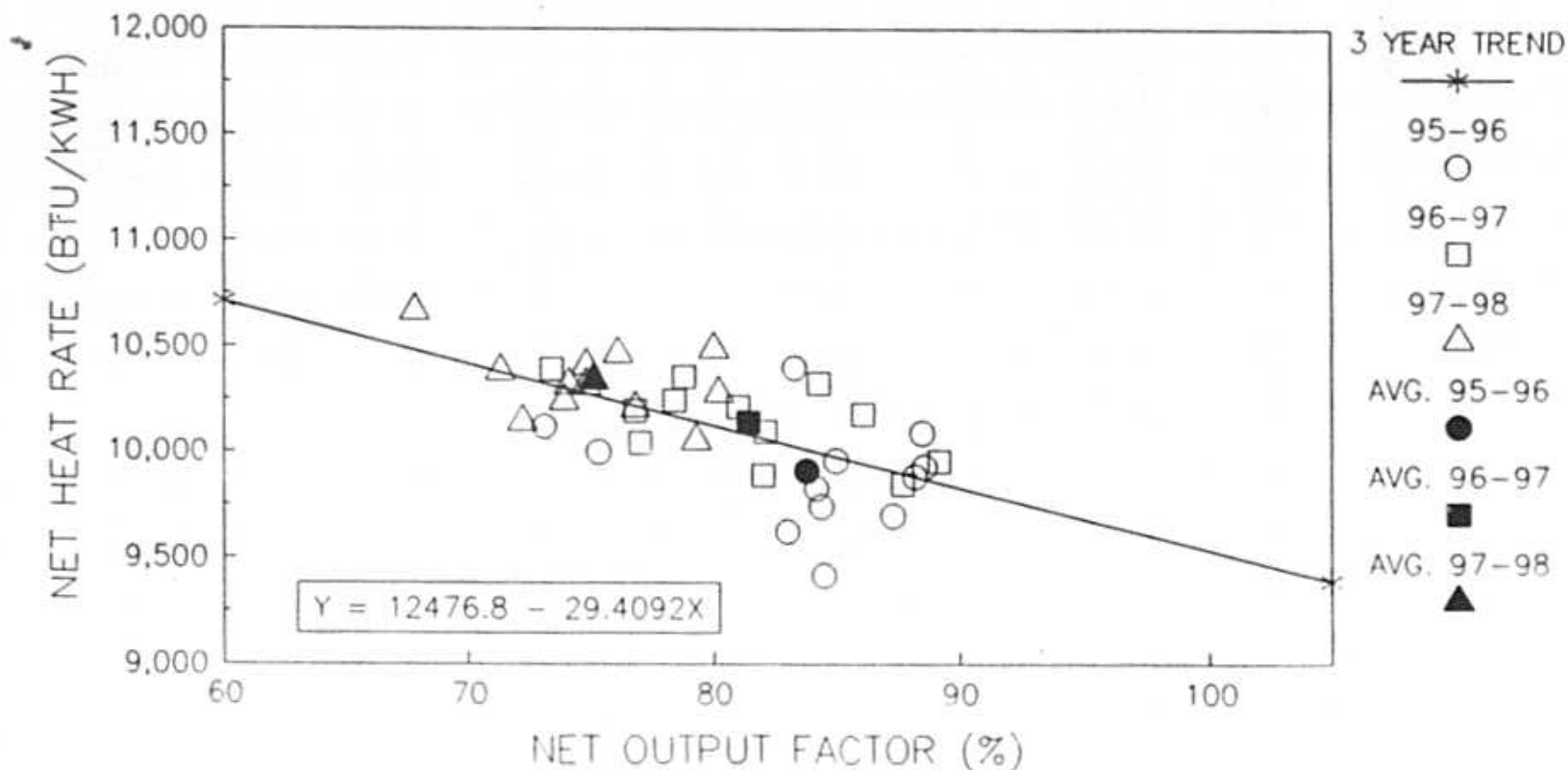


TARGET NET HEAT RATE: 10311
 TARGET NET OUTPUT FACTOR: 71.6%

TAMPA ELECTRIC COMPANY

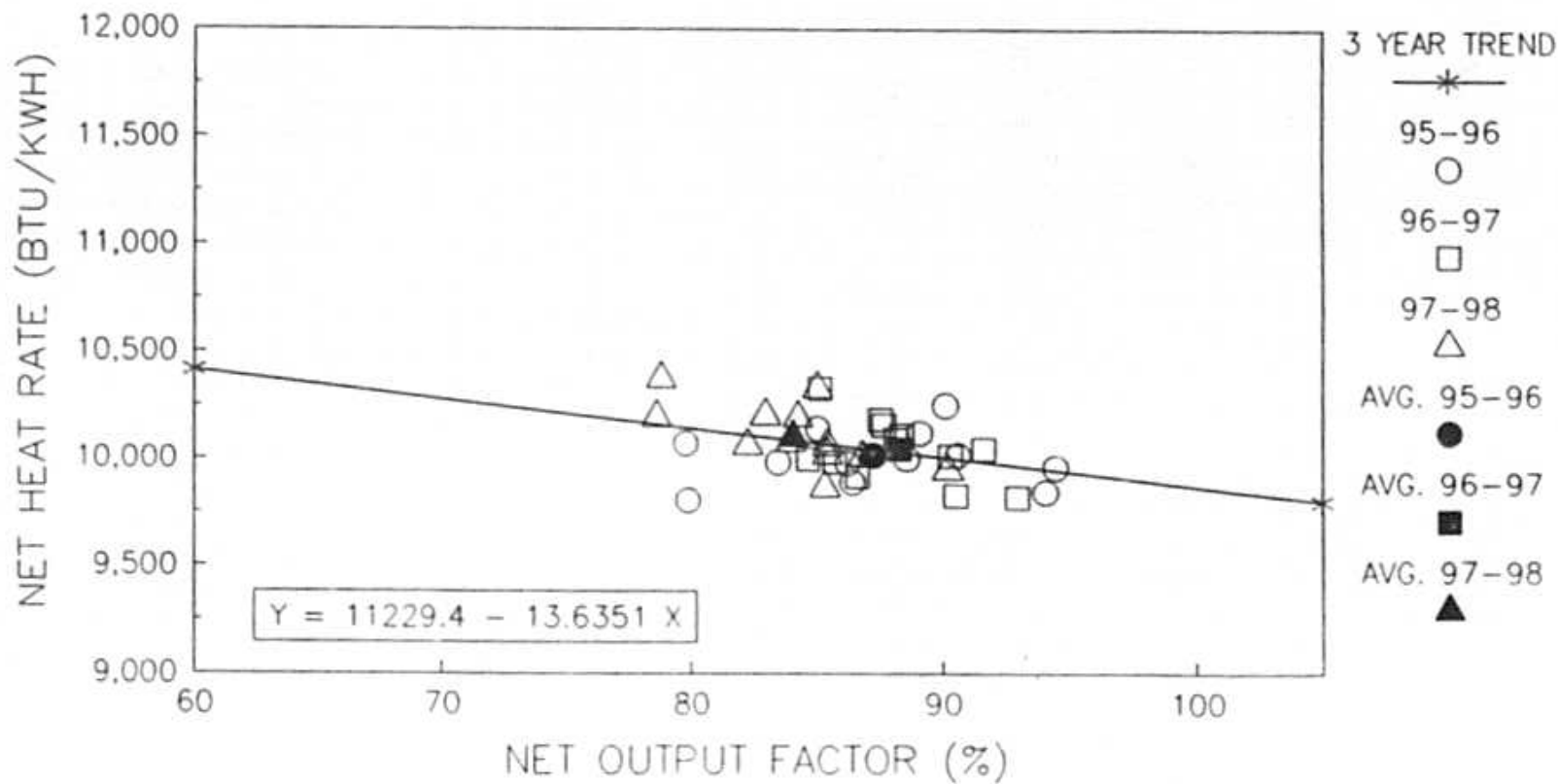
HEAT RATE VS. NET OUTPUT FACTOR

BIG BEND 3, 4th QTR 1998



TARGET NET HEAT RATE: 10051
 TARGET NET OUTPUT FACTOR: 82.5%

TAMPA ELECTRIC COMPANY
 HEAT RATE VS. NET OUTPUT FACTOR
 BIG BEND 4, 4th QTR 1998



TARGET NET HEAT RATE: 9945
 TARGET NET OUTPUT FACTOR: 94.2%

TAMPA ELECTRIC COMPANY
TABLE 4.2
GENERATING UNITS IN GPIF
OCTOBER 1998 - DECEMBER 1998

UNIT	MDC GROSS (MW)	NDC NET (MW)
GANNON 5	245	232
GANNON 6	405	392
BIG BEND 1	445	431
BIG BEND 2	445	431
BIG BEND 3	455	438
BIG BEND 4	475	447
TOTAL	2470	2371
SYSTEM TOTAL	3795	3587
% OF SYSTEM TOTAL	65.09%	66.10%

TAMPA ELECTRIC COMPANY
UNITS RATINGS
OCTOBER 1998 - DECEMBER 1998

<u>UNIT</u>	<u>MDC GROSS (MW)</u>	<u>NDC NET (MW)</u>
HOOKERS POINT 1	35	34
HOOKERS POINT 2	35	34
HOOKERS POINT 3	35	34
HOOKERS POINT 4	45	43
HOOKERS POINT 5	<u>70</u>	<u>67</u>
HOOKERS TOTAL	220	212
GANNON 1	105	99
GANNON 2	100	93
GANNON 3	165	155
GANNON 4	190	179
GANNON 5	245	232
GANNON 6	<u>405</u>	<u>392</u>
GANNON TOTAL	1210	1150
BIG BEND 1	445	431
BIG BEND 2	445	431
BIG BEND 3	455	438
BIG BEND 4	<u>475</u>	<u>447</u>
BIG BEND TOTAL	1820	1747
GANNON CT	17	17
BIG BEND CT1	17	17
BIG BEND CT2	80	80
BIG BEND CT3	<u>80</u>	<u>80</u>
CT TOTAL	194	194
PHILLIPS 1	18	17
PHILLIPS 2	<u>18</u>	<u>17</u>
PHILLIPS TOTAL	36	34
POLK	315	250
SYSTEM TOTAL	3795	3587

TAMPA ELECTRIC COMPANY
PERCENT GENERATION BY UNIT
OCTOBER 1998 - DECEMBER 1998

STATION	UNIT	NET OUTPUT MWH	% OF PROJECTED OUTPUT	% CUMULATIVE PROJECTED OUTPUT
BIG BEND	3	727,397	16.75%	16.75%
BIG BEND	4	660,156	15.20%	31.95%
BIG BEND	2	606,422	13.96%	45.92%
BIG BEND	6	561,643	12.93%	58.85%
BIG BEND	1	455,342	10.49%	69.34%
POLK		392,733	9.04%	78.38%
GANNON	5	300,620	6.92%	85.30%
GANNON	3	213,432	4.91%	90.22%
GANNON	4	177,917	4.10%	94.32%
GANNON	1	109,539	2.52%	96.84%
GANNON	2	105,764	2.44%	99.27%
HOOKERS POINT	5	6,107	0.14%	99.41%
HOOKERS POINT	4	4,637	0.11%	99.52%
HOOKERS POINT	3	3,247	0.07%	99.60%
PHILLIPS	1	3,087	0.07%	99.67%
PHILLIPS	2	3,014	0.07%	99.74%
HOOKERS POINT	2	2,912	0.07%	99.80%
BIG BEND CT	2	2,798	0.06%	99.87%
HOOKERS POINT	1	2,609	0.06%	99.93%
BIG BEND CT	3	2,256	0.05%	99.98%
BIG BEND CT	1	436	0.01%	99.99%
GANNON CT	1	415	0.01%	100.00%
TOTAL GENERATION		4,342,483	100.00%	
GENERATION BY COAL UNITS:		4,310,965	MWH	
% GENERATION BY COAL UNITS:		99.27%		
GENERATION BY OIL UNITS:		31,518	MWH	
% GENERATION BY OIL UNITS:		0.73%		
GENERATION BY GPIF UNITS:		3,311,580	MWH	
% GENERATION BY GPIF UNITS:		76.26%		

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
OCTOBER 1998 - DECEMBER 1998
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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 1	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	83.0	62.9	34.8	60.2
2. POF	0.0	24.2	58.1	27.4
3. EUOF	17.0	12.9	7.1	12.4
4. EUOR	17.0	17.0	17.0	17.0
5. PH	745	720	744	2209
6. SH	639	557	267	1463
7. RSH	0	0	0	0
8. UH	106	163	477	746
9. POH	0	174	432	606
10. FOH & EFOH	74	54	31	159
11. MOH & EMOH	53	39	22	114
12. OPER BTU (GBTU)	2037.560	1817.239	840.116	4694.915
13. NET GEN (MWH)	196255	177165	81922	455342
14. ANOHR (BTU/KWH)	10382	10257	10255	10311
15. NOF (%)	71.3	73.8	71.2	72.2
16. NSC (MW)	431	431	431	431
17. ANOHR EQUATION	ANOHR = NOF(-17.5714) + 11579.4			

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF: OCT 98	MONTH OF: NOV 98	MONTH OF: DEC 98	PERIOD 4TH QTR 1998
BIG BEND 2				
1. EAF (%)	85.4	85.4	85.5	85.4
2. POF	0.0	0.0	0.0	0.0
3. EUOF	14.6	14.6	14.5	14.6
4. EUOR	14.6	14.6	14.5	14.6
5. PH	745	720	744	2209
6. SH	662	641	662	1965
7. RSH	0	0	0	0
8. UH	83	79	82	244
9. POH	0	0	0	0
10. FOH & EFOH	72	69	71	212
11. MOH & EMOH	37	36	37	110
12. OPER BTU (GBTU)	2086.735	2030.666	2135.555	6252.956
13. NET GEN (MWH)	202018	197024	207380	606422
14. ANOHR (BTU/KWH)	10329	10307	10296	10311
15. NOF (%)	70.8	71.3	72.7	71.6
16. NSC (MW)	431	431	431	431
17. ANOHR EQUATION	ANOHR = NOF(-18.2412) + 11617.3			

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
BIG BEND 3				
1. EAF (%)	81.9	81.9	82.0	81.9
2. POF	0.0	0.0	0.0	0.0
3. EUOF	18.1	18.1	18.0	18.1
4. EUOR	18.1	18.1	18.0	18.1
5. PH	745	720	744	2209
6. SH	658	637	658	1953
7. RSH	0	0	0	0
8. UH	87	83	86	256
9. POH	0	0	0	0
10. FOH & EFOH	92	88	91	271
11. MOH & EMC:H	43	42	43	128
12. OPER BTU (GBTU)	2400.639	2323.643	2369.098	7093.380
13. NET GEN (MWH)	238909	231285	235577	705771
14. ANOHR (BTU/KWH)	10048	10047	10057	10051
15. NOF (%)	82.9	82.9	81.7	82.5
16. NSC (MW)	438	438	438	438
17. ANOHR EQUATION	ANOHR = NOF(-29.4092) + 12476.8			

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TAMPA ELECTRIC COMPANY
ESTIMATED UNIT PERFORMANCE DATA
OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	90.2	27.1	90.2	69.6
2. POF	0.0	70.0	0.0	22.8
3. EUOF	9.8	2.9	9.8	7.6
4. EUOR	9.8	9.7	9.8	9.8
5. PH	745	720	744	2209
6. SH	684	199	684	1567
7. RSH	0	0	0	0
8. UH	61	521	60	642
9. POH	0	504	0	504
10. FOH & EFOH	34	10	34	78
11. MOH & EMOH	39	11	39	89
12. OPER BTU (GBTU)	2875.736	843.429	2846.070	6565.235
13. NET GEN (MWH)	288826	84719	286611	660156
14. ANOHR (BTU/KWH)	9957	9956	9930	9945
15. NOF (%)	94.5	95.2	93.7	94.2
16. NSC (MW)	447	447	447	447
17. ANOHR EQUATION	ANOHR = NOF(-13.8351) + 11229.4			

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
GANNON 1				
1. EAF (%)	84.3	84.3	84.3	84.3
2. POF	0.0	0.0	0.0	0.0
3. EUOF	15.7	15.7	15.7	15.7
4. EUOR	15.7	15.7	15.7	15.7
5. PH	745	720	744	2209
6. SH	225	426	528	1179
7. RSH	0	0	0	0
8. UH	520	294	216	1030
9. POH	0	0	0	0
10. FOH & EFOH	89	86	89	264
11. MOH & EMOH	28	27	28	83
12. OPER BTU (GBTU)	245,995	470,191	557,102	1,273,288
13. NET GEN (MWH)	21,747	40,324	47,468	109,539
14. ANOHR (BTU/KWH)	11,312	11,660	11,736	11,624
15. NOF (%)	97.6	95.6	90.8	93.8
16. NSC (MW)	99	99	99	99

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF: OCT 98	MONTH OF: NOV 98	MONTH OF: DEC 98	PERIOD 4TH QTR 1998
GANNON 2				
1. EAF (%)	78.9	78.8	78.9	78.9
2. POF	0.0	0.0	0.0	0.0
3. EUOF	21.1	21.3	21.1	21.1
4. EUOR	21.1	21.3	21.1	21.1
5. PH	745	720	744	2209
6. SH	385	376	504	1265
7. RSH	0	0	0	0
8. UH	380	344	240	944
9. POH	0	0	0	0
10. FOH & EFOH	115	112	115	342
11. MOH & EMOH	42	41	42	125
12. OPER BTU (GBTU)	403,101	388,903	502,307	1,294,311
13. NET GEN (MWH)	32561	31922	41281	105764
14. ANOHR (BTU/KWH)	12380	12183	12168	12238
15. NOF (%)	90.9	91.3	88.1	89.6
16. NSC (MW)	93	93	93	93

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TAMPA ELECTRIC COMPANY
ESTIMATED UNIT PERFORMANCE DATA
OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 3	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	84.0	84.0	84.0	84.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	16.0	16.0	16.0	16.0
4. EUOR	16.0	16.0	16.0	16.0
5. PH	745	720	744	2209
6. SH	488	452	473	1413
7. RSH	0	0	0	0
8. UH	257	268	271	796
9. POH	0	0	0	0
10. FOH & EFOH	81	78	81	240
11. MOH & EMOH	38	37	38	113
12. OPER BTU (GBTU)	810.183	752.259	917.050	2479.492
13. NET GEN (MWH)	69561	64969	78902	213432
14. ANOHR (BTU/KWH)	11647	11579	11623	11617
15. NOF (%)	92.0	92.7	107.6	97.5
16. NSC (MW)	155	155	155	155

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 4	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	39.5	81.4	81.3	67.2
2. POF	51.5	0.0	0.0	17.4
3. EUOF	9.0	18.6	18.7	15.4
4. EUOR	18.6	18.6	18.7	18.6
5. PH	745	720	744	2209
6. SH	440	125	537	1102
7. RSH	0	0	0	0
8. UH	305	595	207	1107
9. POH	384	0	0	384
10. FOH & EFOH	52	104	108	264
11. MOH & EMOH	15	30	31	76
12. OPER BTU (GBTU)	852,239	249,242	968,827	2,068,308
13. NET GEN (MWH)	73103	21578	83236	177917
14. ANOHR (BTU/KWH)	11658	11551	11615	11625
15. NOF (%)	92.8	96.4	86.6	90.2
16. NSC (MW)	179	179	179	179

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SUSPENDED
EFFECTIVE: 10/01/98
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ORDER NO.:

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1998 - DECEMBER 1998

PLANT/UNIT	MONTH OF OCT 98	MONTH OF NOV 98	MONTH OF DEC 98	PERIOD 4TH QTR 1998
GANNON 5				
1. EAF (%)	42.8	78.1	78.1	66.2
2. POF	45.1	0.0	0.0	15.2
3. EUOF	12.1	21.9	21.9	18.6
4. EUOR	22.0	21.9	21.9	21.9
5. PH	745	720	744	2209
6. SH	293	598	612	1503
7. RSH	0	0	0	0
8. UH	452	122	132	706
9. POH	336	0	0	336
10. FOH & EFOH	79	139	144	362
11. MOH & EMOH	11	19	19	49
12. OPER BTU (GBTU)	590.372	1261.932	1226.549	3078.853
13. NET GEN (MWH)	56792	123722	120106	300620
14. ANOHR (BTU/KWH)	10395	10200	10212	10242
15. NOF (%)	83.5	89.2	84.6	86.2
16. NSC (MW)	232	232	232	232
17. ANOHR EQUATION	ANOHR = NOF(-20.2694) + 11988.9			

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
GANNON 6				
1. EAF (%)	82.6	82.6	82.6	82.6
2. POF	0.0	0.0	0.0	0.0
3. EUOF	17.4	17.4	17.4	17.4
4. EUOR	17.4	17.4	17.4	17.4
5. PH	745	720	744	2209
6. SH	552	633	529	1714
7. RSH	0	0	0	0
8. UH	193	87	215	495
9. POH	0	0	0	0
10. FOH & EFOH	98	95	98	292
11. MOH & EMOH	31	30	31	93
12. OPER BTU (GBTU)	1849.328	2227.277	1794.060	5870.665
13. NET GEN (MWH)	175864	212972	172807	561643
14. ANOHR (BTU/KWH)	10516	10458	10382	10453
15. NOF (%)	81.3	85.8	83.3	83.6
16. NSC (MW)	392	322	392	392
17. ANOHR EQUATION	ANOHR = NOF(-7.7732) + 11102.5			

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HOOKERS PT 1	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	93.0	93.1	93.0	93.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	7.0	6.9	7.0	7.0
4. EUOR	7.0	6.9	7.0	7.0
5. PH	745	720	744	2209
6. SH	21	48	12	81
7. RSH	0	0	0	0
8. UH	724	672	732	2128
9. POH	0	0	0	0
10. FOH & EFOH	36	35	36	107
11. MOH & EMOH	16	15	16	47
12. OPER BTU (GBTU)	11,353	25,510	6,347	43,210
13. NET GEN (MWH)	678	1543	388	2609
14. ANOHR (BTU/KWH)	16745	16533	16358	16582
15. NOF (%)	95.0	94.5	95.1	94.7
16. NSC (MW)	34	34	34	34

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	93.0	93.1	93.0	93.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	7.0	6.9	7.0	7.0
4. EUOR	7.0	6.9	7.0	7.0
5. PH	745	720	744	2209
6. SH	24	54	14	92
7. RSH	0	0	0	0
8. UH	721	666	730	2117
9. POH	0	0	0	0
10. FOH & EFOH	36	35	36	107
11. MOH & EMOH	16	15	16	47
12. OPER BTU (GBTU)	12.528	28.264	7.028	47.840
13. NET GEN (MWH)	759	1721	432	2912
14. ANOHR (BTU/KWH)	16506	16435	16269	16429
15. NOF (%)	93.0	93.7	90.8	93.1
16. NSC (MW)	34	34	34	34

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	93.0	93.1	93.0	93.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	7.0	6.9	7.0	7.0
4. EUOR	7.0	6.9	7.0	7.0
5. PH	745	720	744	2209
6. SH	27	60	15	102
7. RSH	0	0	0	0
8. UH	718	660	729	2107
9. POH	0	0	0	0
10. FOH & EFOH	36	35	36	107
11. MOH & EMOH	16	15	16	47
12. OPER BTU (GBTU)	13,869	31,016	7,761	52,646
13. NET GEN (MWH)	848	1917	482	3247
14. ANOHR (BTU/KWH)	16355	16179	16102	16214
15. NOF (%)	92.4	94.0	94.5	93.6
16. NSC (MW)	34	34	34	34

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	
HOOKERS PT 4				4TH QTR 1998
1. EAF (%)	93.0	93.1	93.0	93.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	7.0	6.9	7.0	7.0
4. EUOR	7.0	6.9	7.0	7.0
5. PH	745	720	744	2209
6. SH	31	66	17	116
7. RSH	0	0	0	0
8. UH	714	652	727	2093
9. POH	0	0	0	0
10. FOH & EFOH	36	35	36	107
11. MOH & EMOH	16	15	16	47
12. OPER BTU (GBTU)	19,621	43,216	10,894	73,731
13. NET GEN (MWH)	1217	2726	694	4637
14. ANOHR (BTU/KWH)	16122	15853	15697	15901
15. NOF (%)	91.3	93.2	94.9	93.0
16. NSC (MW)	43	43	43	43

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	OCT 98	NOV 98	DEC 98	
HOOKERS PT 5				4TH QTR 1998
1. EAF (%)	79.6	79.6	79.6	79.6
2. POF	0.0	0.0	0.0	0.0
3. EUOF	20.4	20.4	20.4	20.4
4. EUOR	20.4	20.4	20.4	20.4
5. PH	745	720	744	2209
6. SH	32	68	18	118
7. RSH	0	0	0	0
8. UH	713	852	726	2091
9. FOH	0	0	0	0
10. FOH & EFOH	121	117	121	359
11. MOH & EMOH	31	30	31	92
12. OPER BTU (GBTU)	26.105	56.400	14.715	97.220
13. NET GEN (MWH)	1622	3557	930	6109
14. ANOHR (BTU/KWH)	18094	15856	15823	15914
15. NOF (%)	75.7	78.1	77.1	77.3
16. NSC (MW)	67	67	67	67

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	JUL 98	AUG 98	SEP 98	
GANNON CT 1				4TH QTR 1998
1. EAF (%)	77.9	77.9	77.8	77.9
2. POF	0.0	0.0	0.0	0.0
3. EUOF	22.1	22.1	22.2	22.1
4. EUOR	22.1	22.1	22.2	22.1
5. PH	745	720	744	2209
6. SH	7	18	3	28
7. RSH	0	0	0	0
8. UH	738	702	741	2181
9. POH	0	0	0	0
10. FOH & EFOH	149	144	149	442
11. MOH & EMOH	16	15	16	47
12. OPER BTU (GBTU)	1,890	5,104	0,898	7,892
13. NET GEN (MWH)	99	267	49	415
14. ANOHR (BTU/KWH)	19091	19116	18327	19017
15. NOF (%)	83.2	87.3	96.1	87.2
16. NSC (MW)	17	17	17	17

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	OCT 98	NOV 98	DEC 98	
BIG BEND CT 1				
1. EAF (%)	85.0	85.0	84.9	85.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	35.0	35.0	35.1	35.0
4. EUOR	35.0	35.0	35.1	35.0
5. PH	745	720	744	2209
6. SH	7	19	3	29
7. RSH	0	0	0	0
8. UH	738	701	741	2180
9. POH	0	0	0	0
10. FOH & EFOH	149	144	149	442
11. MOH & EMOH	112	108	112	332
12. OPER BTU (GBTU)	1,993	5,337	0,949	8,279
13. NET GEN (MWH)	104	280	52	436
14. ANOHR (BTU/KWH)	19163	19061	18250	18969
15. NOF (%)	87.4	86.7	102.0	88.4
16. NSC (MW)	17	17	17	17

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND CT 2	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	69.1	69.2	69.1	69.1
2. POF	0.0	0.0	0.0	0.0
3. EUOF	30.9	30.8	30.9	30.9
4. EUOR	30.9	30.8	30.9	30.9
5. PH	745	720	744	2209
6. SH	12	30	6	48
7. RSH	0	0	0	0
8. UH	733	690	738	2161
9. POH	0	0	0	0
10. FOH & EFOH	115	111	115	341
11. MOH & EMOH	115	111	115	341
12. OPER BTU (GBTU)	10.818	27.212	5.940	43.970
13. NET GEN (MWH)	684	1725	389	2798
14. ANOHR (BTU/KWH)	15816	15775	15270	15715
15. NOF (%)	71.3	71.9	81.0	72.9
16. NSC (MW)	80	80	80	80

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND CT 3	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	69.1	69.2	69.1	69.1
2. POF	0.0	0.0	0.0	0.0
3. EUOF	30.9	30.8	30.9	30.9
4. EUOR	30.9	30.8	30.9	30.9
5. PH	745	720	744	2209
6. SH	10	25	4	39
7. RSH	0	0	0	0
8. UH	735	695	740	2170
9. POH	0	0	0	0
10. FOH & EFOH	115	111	115	341
11. MOH & EMOH	115	111	115	341
12. OPER BTU (GBTU)	8.847	23.005	4.729	36.581
13. NET GEN (MWH)	542	1414	300	2256
14. ANOHR (BTU/KWH)	16323	16269	15763	16215
15. NOF (%)	67.8	70.7	93.8	72.3
16. NSC (MW)	80	80	80	80

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PLANT/UNIT	MONTH OF OCT 98	MONTH OF NOV 98	MONTH OF DEC 98	PERIOD 4TH QTR 1998
PHILLIPS 1				
1. EAF (%)	80.0	80.0	80.0	80.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	20.0	20.0	20.0	20.0
4. EUOR	20.0	20.0	20.0	20.0
5. PH	745	720	744	2209
6. SH	46	94	49	189
7. RSH	0	0	0	0
8. UH	699	626	695	2020
9. POH	0	0	0	0
10. FOH & EFOH	52	50	52	154
11. MOH & EMOH	97	94	97	288
12. OPER BTU (GBTU)	7,188	14,585	7,498	29,271
13. NET GEN (MWH)	758	1538	791	3087
14. ANOHR (BTU/KWH)	9483	9483	9479	9482
15. NOF (%)	96.9	96.2	95.0	96.1
16. NSC (MW)	17	17	17	17

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	OCT 98	NOV 98	DEC 98	4TH QTR 1998
1. EAF (%)	80.0	80.0	80.0	80.0
2. POF	0.0	0.0	0.0	0.0
3. EUOF	20.0	20.0	20.0	20.0
4. EUOR	20.0	20.0	20.0	20.0
5. PH	745	720	744	2209
6. SH	45	92	47	184
7. RSH	0	0	0	0
8. UH	700	628	697	2025
9. POH	0	0	0	0
10. FOH & EFOH	52	50	52	154
11. MOH & EMOH	97	94	97	288
12. OPER BTU (GBTU)	7,008	14,281	7,299	28,588
13. NET GEN (MWH)	739	1506	769	3014
14. ANOHR (BTU/KWH)	9483	9483	9492	9485
15. NOF (%)	96.6	96.3	96.2	96.4
16. NSC (MW)	17	17	17	17

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	JUL 98	AUG 98	SEP 98	4TH QTR 1998
POLK				
1. EAF (%)	87.9	46.9	87.9	74.6
2. POF	0.0	46.7	0.0	15.2
3. EUOF	12.1	6.4	12.1	10.2
4. EUOR	12.1	12.0	12.1	12.1
5. PH	745	720	744	2209
6. SH	657	339	657	1653
7. RSH	0	0	0	0
8. UH	88	381	87	556
9. POH	0	336	0	336
10. FOH & EFOH	54	28	54	136
11. MOH & EMOH	36	18	36	90
12. OPER BTU (GBTU)	1620.310	838.107	1609.950	4068.367
13. NET GEN (MWH)	156482	80811	155440	392733
14. ANOHR (BTU/KWH)	10355	10371	10357	10359
15. NOF (%)	95.3	95.4	94.6	95.0
16. NSC (MW)	250	250	250	250

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