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October 5, 1998

RECORDS AND  
REPORTING

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## 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. 990001-EI  
SUBMITTED FOR FILING 10/05/98  
(1999 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

1 performance, and the compilation and reporting of  
2 generation statistics.

3

4 Q. What is the purpose of your testimony?

5

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

10

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

13

14 A. Yes, I have prepared, under my direction and supervision,  
15 an exhibit entitled "Tampa Electric Company, Generating  
16 Performance Incentive Factor" January 1999 - December 1999,  
17 consisting of 35 pages filed with the Commission on  
18 October 5, 1998. (Have identified as Exhibit GAK-2). The  
19 data prepared within this exhibit is consistent with the  
20 GPIF Implementation Manual previously approved by this  
21 Commission.

22

23

24

25

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 14.0%. The Planned  
10 Outage Factor for this same unit during this period is  
11 3.8%. Therefore, the target equivalent availability for  
12 this unit equals:

13

$$14 \quad 100\% - [(14.0\% + 3.8\%)] = 82.2\%$$

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           $EAF_{MAX} = 100\% - [0.8 (14.0\%) + 0.95 (3.8\%)] = 85.2\%$

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  $EAF_{MIN} = 100\% - [1.4 (EUOF_T) + 1.10 (POF_T)]$

6

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

8

9  $EAF_{MIN} = 100\% - [1.4 (14.0\%) + 1.1 (3.8)] = 76.2\%$

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 3 is scheduled for a  
21 planned outage February 20 to April 2, 1999. There are  
22 1008 planned outage hours scheduled for the 1999 period,  
23 and a total of 8760 hours during this 12 month period.  
24 Consequently, the Planned Outage Factor for Unit 3 at Big

25

1 Bend is  $1008/8760 \times 100\%$  or 11.5%. This factor is shown on  
2 pages 5 and 17 of my exhibit. Big Bend Unit 4 has a  
3 planned outage factor of 5.8%. Big Bend Units 1 and 2 have  
4 planned outage factors of 3.8%. Gannon Units 5 and 6 have  
5 planned outage factors of 5.8% and 13.4% respectively.  
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 16.0% for Big  
21 Bend Unit Three. The Equivalent Unplanned Outage Factor  
22 (EUOF) for Big Bend Unit Three is verified by the data  
23 shown on page 17, lines 3, 5, 10 and 11 of my exhibit and  
24 calculated using the formula:  
25



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

3 or

4 EUOF =  $\frac{(953 + 449)}{8760} \times 100 = 16.0\%$   
5

6 Relative to Big Bend Unit Three, the EUOF of 16.0% forms  
7 the basis of our Equivalent Availability target development  
8 as 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 16.4% during this  
14 period. This unit will have a planned outage this period  
15 and the Planned Outage Factor is 3.8%. This results in a  
16 target equivalent availability of 79.8% for the period.  
17

18 Big Bend Unit Two

19 The projected EUOF for this unit is 14.0%. This unit will  
20 have a planned outage during this period and the Planned  
21 Outage Factor is 3.8%. Therefore, the target equivalent  
22 availability for this unit is 82.2%.  
23  
24  
25

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Big Bend Unit Three

The projected EUOF for this unit is 16.0%. This unit will have a planned outage this period and the Planned Outage Factor is 11.5%. Therefore, the target equivalent availability for this unit is 72.5%.

Big Bend Unit Four

The projected EUOF for this unit is 9.2%. This unit will have a planned outage during this period and the Planned Outage Factor is 5.8%. This results in a target equivalent availability of 85.0% for the period.

Gannon Unit Five

The projected EUOF for this unit is 20.6%. This unit will have a planned outage during this period and the Planned Outage Factor is 5.8%. Therefore, the target equivalent availability for this unit is 73.6%.

Gannon Unit Six

The projected EUOF for this unit is 15.1%. This unit will have a planned outage during this period and the Planned Outage Factor is 13.4%. Therefore, the target equivalent availability for this unit is 71.5%.

- 1 Q. Would you summarize your testimony regarding Equivalent  
2 Availability Factor (EAF)?  
3
- 4 A. Yes I will. Please note on page 5 that the GPIF system  
5 weighted Equivalent Availability Factor (EAF) equals 76.9%.  
6 This target compares very favorably to previous GPIF  
7 periods and is in fact, better than two of the three past  
8 periods when compared on a common planned outage factor  
9 basis.  
10
- 11 Q. As you graph and monitor Forced and Maintenance Outage  
12 Factors, why are they adjusted for planned outage hours?  
13
- 14 A. This adjustment makes these factors more accurate and  
15 comparable. Obviously, a unit in a planned outage stage or  
16 reserve shutdown stage will not incur a forced or  
17 maintenance outage. Since our units are usually base  
18 loaded, reserve shutdown is generally not a factor. To  
19 demonstrate the effects of a planned outage, note the EUOR  
20 and EUOF for Gannon Unit Six on page 14. During the months  
21 of January through March, and June through December, EUOF  
22 and EUOR are equal. This is due to the fact that no  
23 planned outages are scheduled during these months. During  
24 the months of April and May, EUOR exceeds EUOF. The reason  
25 for this difference is the scheduling of a planned outage.

1       The adjusted factors apply to the period hours after  
2       planned outage hours have been extracted.

3

4   **Q.**   Does this mean that both rate and factor data are used in  
5       calculated data?

6

7   **A.**   Yes it does. Rates provide a proper and accurate method of  
8       arriving at the unit parameters. These are then converted  
9       to factors since they are directly additive. That is, the  
10      Forced Outage Factor + Maintenance Outage Factor + Planned  
11      Outage Factor + Equivalent Availability = 100%. Since  
12      factors are additive, they are easier to work with and to  
13      understand.

14

15   **Q.**   Has Tampa Electric Company prepared the necessary heat rate  
16      data required for the determination of the Generating  
17      Performance Incentive Factor?

18

19   **A.**   Yes. Target heat rates as well as ranges of potential  
20      operation have been developed as required.

21

22   **Q.**   How were these targets determined?

23

24   **A.**   Net heat rate data for the three most recent summer  
25      periods, along with the PROMOD IV program, formed the basis

1 of our target development. Projections of unit performance  
2 were made with the aid of PROMOD IV. The historical data  
3 and the target values are analyzed to assure applicability  
4 to current conditions of operation. This provides  
5 assurance that any periods of abnormal operations, or  
6 equipment modifications having material effect on heat rate  
7 can be taken into consideration.

8

9 **Q.** Have you developed the heat rate targets in accordance with  
10 GPIF guidelines?

11

12 **A.** Yes.

13

14 **Q.** How were the ranges of heat rate improvement and heat rate  
15 degradation determined?

16

17 **A.** The ranges were determined through analysis of historical  
18 net heat rate and net output factor data. This is the same  
19 data from which the net heat rate vs. net output factor  
20 curves have been developed for each unit. This information  
21 is shown on pages 27 through 32 of my exhibit.

22

23

24

25

1 Q. Would you elaborate on the analysis used in the  
2 determination of the ranges?

3

4 A. The net heat rate vs. net output factor curves are the results  
5 of a first order curve fit to historical data. The standard  
6 error of the estimate of this data was determined, and a factor  
7 was applied to produce a band of potential improvement and  
8 degradation. Both the curve fit and the standard error of the  
9 estimate were performed by computer program for each unit. These  
10 curves are also used in post period adjustments to actual heat  
11 rates to account for unanticipated changes in unit dispatch.

12

13 Q. Can you summarize your heat rate projection for the 1999  
14 period?

15

16 A. Yes. The heat rate target for Big Bend Unit 1 is 10,230  
17 Btu/Net kwh. The range about this value, to allow for  
18 potential improvement or degradation, is  $\pm 353$  Btu/Net kwh.  
19 The heat rate target for Big Bend Unit 2 is 10,247 Btu/Net  
20 kwh with a range of  $\pm 363$  Btu/Net kwh. The heat rate target  
21 for Big Bend Unit 3 is 9,992 Btu/Net kwh, with a range of  
22  $\pm 387$  Btu/Net kwh. The heat rate target for Big Bend Unit  
23 4 is 9,938 Btu/Net kwh with a range of  $\pm 243$  Btu/Net kwh.  
24 The heat rate target for Gannon Unit 5 is 10,150 Btu/Net  
25 kwh with a range of  $\pm 519$  Btu/Net kwh. The heat rate target

1 for Gannon Unit 6 is 10,401 Btu/Net kwh with a range of  
2 ±380 Btu/Net kwh. A zone of tolerance of ±75 Btu/Net kwh  
3 is included within the range for each target. This is  
4 shown on page 4, and pages 7 through 12 of my exhibit.  
5

6 **Q.** Do you feel that the heat rate targets and ranges in your  
7 projection meet the criteria of the GPIF and the philosophy  
8 of this Commission?  
9

10 **A.** Yes I do.  
11

12 **Q.** After determining the target values and ranges for average  
13 net operating heat rate and equivalent availability, what  
14 is the next step in the GPIF?  
15

16 **A.** The next step is to calculate the savings and weighting  
17 factor to be used for both average net operating heat rate  
18 and equivalent availability. This is shown on pages 7  
19 through 12. Our PROMOD IV cost simulation model was used  
20 to calculate the total system fuel cost if all units  
21 operated at target heat rate and target availability for  
22 the period. This total system fuel cost of \$366,186,700 is  
23 shown on page 6 column 2.  
24

25 The PROMOD IV output was then used to calculate total

1 system fuel cost with each unit individually operating at  
2 maximum improvement in equivalent availability and each  
3 station operating at maximum improvement in average net  
4 operating heat rate. The respective savings are shown on  
5 page 6 column 4. After all the individual savings are  
6 calculated, column 4 is totaled: \$13,646,800 reflects the  
7 savings if all units operated at maximum improvement. A  
8 weighting factor for each parameter is then calculated by  
9 dividing individual savings by the total. For Big Bend  
10 Unit Two, the weighting factor for equivalent availability  
11 is 6.40% as shown in the right hand column on page 6.  
12 Pages 7 thru 12 show the point table, the Fuel  
13 Savings/(Loss), and the equivalent availability or heat  
14 rate value. The individual weighting factor is also shown.  
15 For example, on Big Bend Unit Two, page 10, if the unit  
16 operates at 85.2% equivalent availability, fuel savings  
17 would equal \$873,400 and 10 equivalent availability points  
18 would be awarded.

19  
20 The Generating Performance Incentive Factor Reward/Penalty  
21 Table on page 2 is a summary of the tables on pages 7  
22 through 12. The left hand column of this document shows  
23 the incentive points for Tampa Electric Company. The  
24 center column shows the total fuel savings and is the same  
25 amount as shown on page 6, column 4, \$13,646,800. The



1 right hand column of page 2 is the estimated reward or  
2 penalty based upon performance.  
3  
4 Q. How were the maximum allowed incentive dollars determined?  
5  
6 A. Referring to my exhibit on page 3, line 14, the estimated  
7 average common equity for the period January 1999 -  
8 December 1999 is shown to be \$1,237,459,154. This produces  
9 the maximum allowed jurisdictional incentive dollars of  
10 \$4,959,159 shown on line 21.  
11  
12 Q. Is there any other constraint set forth by this Commission  
13 regarding the magnitude of incentive dollars?  
14  
15 A. Yes. Incentive dollars are not to exceed fifty percent of  
16 fuel savings. Page 2 of my exhibit demonstrates that this  
17 constraint is met.  
18  
19 Q. Do you wish to summarize your testimony on the GPIF?  
20  
21 A. Yes. To the best of my knowledge and understanding, Tampa  
22 Electric Company has fully complied with the Commission's  
23 directions, philosophy, and methodology in our  
24 determination of Generating Performance Incentive Factor.  
25 The GPIF for Tampa Electric Company is expressed by the

1 following formula for calculating Generating Performance  
2 Incentive Points (GPIP):

$$\begin{aligned} \text{GPIP} = & ( 0.0454 \text{ EAP}_{\text{GN5}} + 0.0683 \text{ EAP}_{\text{GN6}} \\ & + 0.0719 \text{ EAP}_{\text{BB1}} + 0.0640 \text{ EAP}_{\text{BB2}} \\ & + 0.0829 \text{ EAP}_{\text{BB3}} + 0.0432 \text{ EAP}_{\text{BB4}} \\ & + 0.0884 \text{ HRP}_{\text{GN5}} + 0.0979 \text{ HRP}_{\text{GN6}} \\ & + 0.1068 \text{ HRP}_{\text{BB1}} + 0.1112 \text{ HRP}_{\text{BB2}} \\ & + 0.1222 \text{ HRP}_{\text{BB3}} + 0.0978 \text{ HRP}_{\text{BB4}} \end{aligned}$$

10 Where:

11 GPIP = Generating performance incentive points.

12 EAP = Equivalent availability points awarded/deducted for  
13 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at  
14 Big Bend.

15 HRP = Average net heat rate points awarded/deducted for  
16 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at  
17 Big Bend.

18  
19 Q. Have you prepared a document summarizing the GPIF targets  
20 for the January 1999 - December 1999 period?

21  
22 A. Yes. The availability and heat rate targets for each unit  
23 are listed on attachment "A" to this testimony entitled  
24 "Tampa Electric Company GPIF Targets, January 1, 1999  
25 - December 31, 1999".

1 Q. Do you wish to sponsor an exhibit consisting of estimated  
2 unit performance data supporting the fuel adjustment?

3

4 A. Yes I do. (Have identified as Exhibit GAK-3).

5

6 Q. Briefly describe this exhibit.

7

8 A. This exhibit consists of 23 pages. This data is Tampa Electric  
9 Company's estimate of the Unit Performance Data and Unit Outage  
10 Data for the January 1999 - December 1999 period.

11

12 Q. Does this conclude your testimony?

13

14 A. Yes.

15

16

17

18

19

20

21

22

23

24

25

ATTACHMENT "A"  
October 5, 1998

TAMPA ELECTRIC COMPANY  
GPIF TARGETS  
January 1, 1999 - December 31, 1999

Unit	Availability			Heat Rate
	EAF	POF	EUOF	
Gannon 5	73.6	5.8	20.6	10,150 <sup>1/</sup>
Gannon 6	71.5	13.4	15.1	10,401 <sup>2/</sup>
Big Bend 1	79.8	3.8	16.4	10,230 <sup>3/</sup>
Big Bend 2	82.2	3.8	14.0	10,247 <sup>4/</sup>
Big Bend 3	72.5	11.5	16.0	9,992 <sup>5/</sup>
Big Bend 4	85.0	5.8	9.2	9,938 <sup>6/</sup>

<sup>1/</sup> Original Sheet 8.401.99E, Pg. 13

<sup>2/</sup> Original Sheet 8.401.99E, Pg. 14

<sup>3/</sup> Original Sheet 8.401.99E, Pg. 15

<sup>4/</sup> Original Sheet 8.401.99E, Pg. 16

<sup>5/</sup> Original Sheet 8.401.99E, Pg. 17

<sup>6/</sup> Original Sheet 8.401.99E, Pg. 18

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

<b><u>SCHEDULE</u></b>	<b>PAGE</b>
GPIF REWARD / PENALTY TABLE ESTIMATED	2
GPIF CALCULATIONS OF MAXIMUM ALLOWED INCENTIVE DOLLARS	3
GPIF TARGET AND RANGE SUMMARY	4
COMPARISON GPIF TARGETS VS PRIOR PERIODS ACTUAL PERFORMANCE	5
GPIF HEAT RATE SUMMARY	5
DERIVATION OF WEIGHTING FACTORS	6
GENERATING PERFORMANCE INCENTIVE POINT TABLES	7 - 12
ESTIMATED UNIT PERFORMANCE DATA	13 - 18
PLANNED OUTAGE SCHEDULE	19
CRITICAL PATH METHOD DIAGRAMS	20
TAMPA ELECTRIC COMPANY FORCED OUTAGE AND MAINTENANCE OUTAGE FACTOR GRAPHS	21 - 26
NET HEAT RATE VS NET OUTPUT FACTOR GRAPHS	27 - 32
GENERATING UNITS IN GPIF (TABLE 4.2 IN MANUAL)	33
UNIT RATINGS AS OF OCTOBER 1, 1998	34
PROJECTED PERCENT GENERATION BY UNIT	35

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

<u>GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)</u>
+10	13,646.8	4,959.2
+9	12,282.1	4,463.2
+8	10,917.4	3,967.3
+7	9,552.8	3,471.4
+6	8,188.1	2,975.5
+5	6,823.4	2,479.6
+4	5,458.7	1,983.7
+3	4,094.0	1,487.7
+2	2,729.4	991.8
+1	1,364.7	495.9
0	0	0.0
-1	(1,916.3)	(495.9)
-2	(3,832.6)	(991.8)
-3	(5,748.9)	(1,487.7)
-4	(7,665.2)	(1,983.7)
-5	(9,581.6)	(2,479.6)
-6	(11,497.9)	(2,975.5)
-7	(13,414.2)	(3,471.4)
-8	(15,330.5)	(3,967.3)
-9	(17,246.8)	(4,463.2)
-10	(19,163.1)	(4,959.2)

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

Line 1	Beginning of period balance of common equity	\$1,203,019,000
	End of month common equity:	
Line 2	Month of January 1999	\$1,203,019,000
Line 3	Month of February 1999	\$1,217,657,000
Line 4	Month of March 1999	\$1,229,580,000
Line 5	Month of April 1999	\$1,215,058,000
Line 6	Month of May 1999	\$1,226,956,000
Line 7	Month of June 1999	\$1,238,970,000
Line 8	Month of July 1999	\$1,241,712,000
Line 9	Month of August 1999	\$1,253,870,000
Line 10	Month of September 1999	\$1,266,148,000
Line 11	Month of October 1999	\$1,251,367,000
Line 12	Month of November 1999	\$1,263,620,000
Line 13	Month of December 1999	\$1,275,393,000
Line 14	(summation of line 1 through line 13 divided by 13)	\$1,237,459,154
Line 15	25 Basis points	0.0025
Line 16	Revenue expansion factor	61.3738%
Line 17	Maximum allowed incentive Dollars (Line 14 times line 15 divided by line 16)	\$5,040,665
Line 18	Jurisdictional Sales	15990103 MWH
Line 19	Total Sales	16252909 MWH
Line 20	Jurisdictional Separation Factor (Line 18 divided by line 19)	98.38%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (Line 17 times line 20)	\$4,959,159

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 1999 - DECEMBER 1999

EQUIVALENT AVAILABILITY

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

AVERAGE NET OPERATING HEAT RATE  
FOR  
GPIF COAL GENERATING UNITS

<u>PLANT/UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>ANOHR Btu/kwh</u>	<u>TARGET NOF</u>	<u>ANOHR TARGET RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
				<u>MIN.</u>	<u>MAX.</u>		
GANNON 5	8.84%	10150	90.7	9631	10669	1,207.0	(1,207.0)
GANNON 6	9.79%	10401	90.3	10021	10781	1,336.0	(1,336.0)
BIG BEND 1	10.68%	10230	76.8	9877	10533	1,457.0	(1,457.0)
BIG BEND 2	11.12%	10247	75.1	9884	10610	1,517.0	(1,517.0)
BIG BEND 3	12.22%	9992	84.5	9605	10379	1,668.0	(1,668.0)
BIG BEND 4	9.78%	9938	94.7	9695	10181	1,336.0	(1,336.0)
GPIF SYSTEM	62.43%					8,521.0	(8,521.0)



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

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD JAN 99 - DEC 99		TARGET PERIOD AUG 97 - JUL 98		TARGET PERIOD AUG 96 - JUL 97		TARGET PERIOD AUG 95 - JUL 96					
			POF	ELOR	POF	ELOR	POF	ELOR	POF	ELOR				
BIG BEND 1	7.1%	19.1	3.8	16.4	17.0	10.0	16.3	18.1	15.9	17.9	21.3	0.0	12.7	12.7
BIG BEND 2	6.6%	17.0	3.8	14.0	14.6	5.3	14.1	14.9	3.3	11.7	12.1	0.0	14.9	14.9
BIG BEND 3	8.2%	22.1	11.5	16.0	18.1	4.7	20.3	21.3	2.6	18.8	19.3	4.7	15.3	16.1
BIG BEND 4	4.3%	11.5	5.8	9.2	9.8	3.2	11.4	11.8	6.0	8.1	8.6	4.9	5.4	5.7
GANNON 5	4.5%	12.1	3.8	20.6	21.9	10.3	24.1	26.9	5.6	23.1	24.5	17.1	10.1	12.2
GANNON 6	6.8%	18.2	13.4	15.1	17.4	4.1	19.5	20.3	3.8	13.2	13.7	14.9	10.5	12.3
EPK	37.5%	100.0	7.7	15.4	16.7	6.2	17.8	19.0	6.2	15.7	16.8	6.4	12.1	12.9
EPK			76.9		76.0		76.1		81.5					
			3 PERIOD AVERAGE POF ELOR		3 PERIOD AVERAGE POF ELOR		3 PERIOD AVERAGE POF ELOR		3 PERIOD AVERAGE POF ELOR					
			6.3	15.2	16.2		76.5							

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
				OCT 97 - DEC 97	OCT 96 - DEC 96	
GANNON 5	6.8%	14.2	10150	10188	10489	10031
GANNON 6	9.7%	15.7	10401	10540	10476	10406
BIG BEND 1	10.6%	17.1	10230	9998	10143	10162
BIG BEND 2	11.1%	17.8	10247	10027	10201	10205
BIG BEND 3	12.2%	19.6	9962	9910	10140	10337
BIG BEND 4	9.7%	15.7	9938	10012	10041	10099
EPK	62.0%	100.0	10156	10190	10272	10307
OPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)						

**TAMPA ELECTRIC COMPANY  
DERIVATION OF WEIGHTING FACTORS  
JANUARY 1999 - DECEMBER 1999  
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>
<b>EQUIVALENT AVAILABILITY</b>				
EA1 GANNON 5	366186.7	365567.1	619.6	4.54%
EA2 GANNON 6	366186.7	365254.3	932.4	6.83%
EA3 BIG BEND 1	366186.7	365206.0	980.7	7.19%
EA4 BIG BEND 2	366186.7	365313.3	873.4	6.40%
EA5 BIG BEND 3	366186.7	365056.0	1130.7	8.29%
EA6 BIG BEND 4	366186.7	365597.7	589.0	4.32%
<b>HEAT RATE</b>				
AHR1 GANNON 5	366186.7	364979.7	1207.0	8.84%
AHR2 GANNON 6	366186.7	364850.7	1336.0	9.79%
AHR3 BIG BEND 1	366186.7	364729.7	1457.0	10.68%
AHR4 BIG BEND 2	366186.7	364669.7	1517.0	11.12%
AHR5 BIG BEND 3	366186.7	364518.7	1668.0	12.22%
AHR5 BIG BEND 4	366186.7	364850.7	1336.0	9.78%
<b>TOTAL SAVINGS</b>			<b>13646.8</b>	<b>100.00%</b>

(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

JANUARY 1999 - DECEMBER 1999

GANNON 5

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	619.6	78.0	+10	1,207.0	9631
+9	557.6	77.6	+9	1,086.3	9675
+8	495.7	77.1	+8	965.6	9720
+7	433.7	76.7	+7	844.9	9764
+6	371.8	76.2	+6	724.2	9809
+5	309.8	75.8	+5	603.5	9853
+4	247.8	75.4	+4	482.8	9897
+3	185.9	74.9	+3	362.1	9942
+2	123.9	74.5	+2	241.4	9986
+1	62.0	74.0	+1	120.7	10031
				0.0	10075
0	0.0	73.6	0	0.0	10150
				0.0	10225
-1	(141.2)	72.7	-1	(120.7)	10269
-2	(282.4)	71.8	-2	(241.4)	10314
-3	(423.7)	70.9	-3	(362.1)	10358
-4	(564.9)	70.0	-4	(482.8)	10403
-5	(706.1)	69.2	-5	(603.5)	10447
-6	(847.3)	68.3	-6	(724.2)	10491
-7	(988.5)	67.4	-7	(844.9)	10536
-8	(1,129.8)	66.5	-8	(965.6)	10580
-9	(1,271.0)	65.6	-9	(1,086.3)	10625
-10	(1,412.2)	64.7	-10	(1,207.0)	10669
	Weighting Factor =	4.54%		Weighting Factor =	8.84%

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

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$ X 1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$ X 1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	932.4	75.2	+10	1,336.0	10021
+9	839.2	74.8	+9	1,202.4	10052
+8	745.9	74.5	+8	1,068.8	10082
+7	652.7	74.1	+7	935.2	10113
+6	559.4	73.7	+6	801.6	10143
+5	466.2	73.4	+5	668.0	10174
+4	373.0	73.0	+4	534.4	10204
+3	279.7	72.6	+3	400.8	10235
+2	186.5	72.2	+2	267.2	10265
+1	93.2	71.9	+1	133.6	10296
0	0.0	71.5	0	0.0	10326
-1	176.0	70.8	-1	(133.6)	10401
-2	352.1	70.0	-2	(267.2)	10476
-3	528.1	69.3	-3	(400.8)	10507
-4	704.1	68.6	-4	(534.4)	10537
-5	880.2	67.9	-5	(668.0)	10568
-6	1,056.2	67.1	-6	(801.6)	10598
-7	1,232.2	66.4	-7	(935.2)	10629
-8	1,408.2	65.7	-8	(1,068.8)	10659
-9	1,584.3	64.9	-9	(1,202.4)	10690
-10	1,760.3	64.2	-10	(1,336.0)	10720
					10751
					10781
	Weighting Factor =	6.83%		Weighting Factor =	9.79%



**TAMPA ELECTRIC COMPANY**  
**GENERATING PERFORMANCE INCENTIVE POINTS TABLE**

**JANUARY 1999 - DECEMBER 1999**

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

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
OCTOBER 1999 - DECEMBER 1999  
BIG BEND 3

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	1,130.7	76.3	+10	1,668.0	9605
+9	1,017.6	75.9	+9	1,501.2	9636
+8	904.6	75.5	+8	1,334.4	9667
+7	791.5	75.2	+7	1,167.6	9699
+6	678.4	74.8	+6	1,000.8	9730
+5	565.4	74.4	+5	834.0	9761
+4	452.3	74.0	+4	667.2	9792
+3	339.2	73.6	+3	500.4	9823
+2	226.1	73.3	+2	333.6	9855
+1	113.1	72.9	+1	166.8	9886
				0.0	9917
0	0.0	72.5	0	0.0	9992
				0.0	10067
-1	224.9	71.7	-1	(166.8)	10098
-2	449.9	71.0	-2	(333.6)	10129
-3	674.8	70.2	-3	(500.4)	10161
-4	899.8	69.5	-4	(667.2)	10192
-5	1,124.7	68.7	-5	(834.0)	10223
-6	1,349.6	67.9	-6	(1,000.8)	10254
-7	1,574.6	67.2	-7	(1,167.6)	10285
-8	1,799.5	66.4	-8	(1,334.4)	10317
-9	2,024.5	65.7	-9	(1,501.2)	10348
-10	2,249.4	64.9	-10	(1,668.0)	10379
	Weighting Factor =	8.29%		Weighting Factor =	12.22%

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 1999 - DECEMBER 1999

BIG BEND 4

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	589.0	87.1	+10	1,336.0	9695
+9	530.1	86.9	+9	1,202.4	9712
+8	471.2	86.7	+8	1,068.8	9729
+7	412.3	86.5	+7	935.2	9745
+6	353.4	86.3	+6	801.6	9762
+5	294.5	86.1	+5	668.0	9779
+4	235.6	85.8	+4	534.4	9796
+3	176.7	85.6	+3	400.8	9813
+2	117.8	85.4	+2	267.2	9829
+1	58.9	85.2	+1	133.6	9846
				0.0	9863
0	0.0	85.0	0	0.0	9938
				0.0	10013
-1	137.5	84.6	-1	(133.6)	10030
-2	274.9	84.1	-2	(267.2)	10047
-3	412.4	83.7	-3	(400.8)	10063
-4	549.9	83.3	-4	(534.4)	10080
-5	687.4	82.9	-5	(668.0)	10097
-6	824.8	82.4	-6	(801.6)	10114
-7	962.3	82.0	-7	(935.2)	10131
-8	1,099.8	81.6	-8	(1,068.8)	10147
-9	1,237.2	81.1	-9	(1,202.4)	10164
-10	1,374.7	80.7	-10	(1,336.0)	10181
	Weighting Factor =	4.32%		Weighting Factor =	9.78%



TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1999 - DECEMBER 1999

PLANT/UNIT	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	PERIOD	
1. EAF (%)	78.1	78.1	78.1	78.1	78.0	70.6	67.8	78.1	78.1	78.1	73.0	46.9	78.1	73.6
2. POF	0.0	0.0	0.0	0.0	0.0	9.7	13.3	0.0	0.0	0.0	6.4	40.0	0.0	5.8
3. EUOF	21.9	21.9	21.9	21.9	22.0	19.8	18.9	21.9	21.9	21.9	20.5	13.1	21.9	20.6
4. EUOR	21.9	21.9	21.9	21.9	22.0	21.9	21.8	21.9	21.9	21.9	22.0	21.8	21.9	21.9
5. PH	744	672	744	744	719	744	720	744	744	720	745	720	744	8760
6. SH	540	557	616	616	516	556	458	565	531	514	577	358	617	6407
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	204	115	126	126	203	168	262	179	213	206	168	362	127	2353
9. POH	0	0	0	0	0	72	96	0	0	0	48	298	0	504
10. FOH & EFOH	144	130	144	144	139	130	120	144	144	139	135	83	144	1598
11. MOH & EMOH	19	17	19	19	19	17	16	19	19	19	18	11	19	212
12. OPER BTU (GBTU)	1041.994	1044.910	1292.355	1008.133	1146.480	955.516	1198.041	1116.117	1081.851	1157.068	734.648	1233.005	12985.938	
13. NET GEN (MMW)	103882	104117	129123	99509	113019	93062	115310	107582	103407	113698	73435	123180	1278344	
14. ANOHR (BTU/KWH)	10031	10006	10009	10111	10144	10205	10372	10375	10287	10177	10004	10010	10150	
15. NOF (%)	82.9	80.6	90.1	85.0	89.5	89.5	89.9	89.3	88.6	84.9	85.4	86.1	90.7	
16. NSC (MM)	232	232	232	227	227	227	227	227	227	227	232	232	232	
17. ANOHR EQUATION	ANOHR = NOF(-20.2694) + 1198.9													

FILED:  
SUSPENDED:  
EFFECTIVE: 10/01/98  
DOCKET NO.: 990001-E  
ORDER NO.:

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
OCTOBER 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 6	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1. EAF (%)	82.6	82.6	82.6	24.7	8.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	71.5
2. POF	0.0	0.0	0.0	70.1	90.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4
3. EUOF	17.4	17.4	17.4	5.2	1.7	17.4	17.4	17.4	17.4	17.4	17.4	17.4	15.1
4. EUOR	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8780
6. SH	545	444	653	141	48	633	654	654	633	515	627	491	6038
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. LH	199	228	91	578	696	87	90	90	87	230	93	253	2722
9. POH	0	0	0	504	672	0	0	0	0	0	0	0	1176
10. FOH & EFOH	98	89	96	28	10	95	98	98	95	98	95	98	1001
11. MOH & EMOH	31	28	31	9	3	30	31	31	30	31	30	31	318
12. OPER BTU (GBTU)	1831.016	1437.714	2288.297	483.624	170.123	2241.229	2338.175	2331.832	2238.854	1739.818	2109.953	1660.389	20888.624
13. NET GEN (MWH)	177892	139846	220159	46842	16393	214358	222584	222092	214182	167102	203368	161648	2006486
14. ANOHR (BTU/KWH)	10293	10281	10385	10325	10378	10456	10505	10499	10452	10411	10374	10272	10401
15. NOF (%)	83.3	80.3	86.0	91.8	94.3	93.5	94.0	93.8	93.5	82.8	82.8	84.0	90.3
16. NSC (MW)	362	392	32	362	362	362	362	362	362	392	392	392	368
17. ANOHR EQUATION	ANOHR = NOF(-7.7732) + 11102.5												

FILED:  
SUSPENDED:  
EFFECTIVE: 10/01/98  
DOCKET NO.: 990001-EI  
ORDER NO.:

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 1	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1. EAF (%)	82.9	82.9	82.9	83.0	82.9	83.1	82.9	82.9	83.1	45.6	83.1	82.9	79.8
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.1	0.0	0.0	3.8
3. EUOF	17.1	17.1	17.1	17.0	17.1	16.9	17.1	17.1	16.9	9.3	16.9	17.1	16.4
4. EUOR	17.1	17.1	17.1	17.0	17.1	16.9	17.1	17.1	16.9	16.9	16.9	17.1	17.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	639	577	639	618	639	618	639	639	618	350	618	639	7233
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	105	95	105	101	105	102	105	105	102	395	102	105	1527
9. POH	0	0	0	0	0	0	0	0	0	336	0	0	336
10. FOH & EFOH	74	67	74	71	74	71	74	74	71	40	71	74	835
11. MOH & EMOH	53	48	53	51	53	51	53	53	51	29	51	53	599
12. OPER BTU (GBTU)	2156.855	1690.981	2289.289	1956.882	2120.462	2293.494	2399.929	2221.173	2109.155	1160.202	1899.718	1952.019	24250.159
13. NET GEN (MWH)	212410	165137	225268	191434	207212	224385	233054	215435	206153	112876	185416	191734	2370514
14. ANOHR (BTU/KWH)	10154	10240	10163	10222	10233	10221	10298	10310	10231	10279	10246	10181	10230
15. NOF (%)	77.1	66.4	81.8	73.6	77.0	86.2	86.6	80.1	79.2	74.8	69.6	69.8	76.8
16. NSC (MW)	431	431	431	421	421	421	421	421	421	431	431	431	427
17. ANOHR EQUATION	ANOHR = NOF(-17.5714) + 11579.4												

FILED:  
SUSPENDED:  
EFFECTIVE: 10/01/98  
DOCKET NO.: 990001-E1  
ORDER NO.:

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF:												PERIOD		
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99			
BIG BEND 2	85.5	85.3	85.5	85.4	85.5	85.4	85.5	85.5	85.4	85.4	85.4	85.5	85.5	82.2	1999
1. EAF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	
2. POF	14.5	14.7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.0	
3. EUOF	14.5	14.7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.0	
4. EUOR	744	872	744	744	744	720	744	744	720	745	720	744	744	8700	
5. PH	662	598	662	641	662	641	662	662	641	662	641	662	662	7487	
6. SH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. RSH	82	74	82	78	82	79	82	82	79	83	83	82	82	1283	
8. UH	0	0	0	0	0	0	0	0	0	0	0	0	0	338	
9. PCH	71	65	71	69	71	69	71	71	69	72	72	71	71	807	
10. FOH & EFOH	37	34	37	36	37	36	37	37	36	37	37	37	37	420	
11. MOH & EMOH	2190.358	1708.091	2321.341	1927.558	2174.801	2341.144	2451.255	2279.659	2130.858	2124.281	1034.427	1958.294	24640.085		
12. OPER BTU (G8TLU)	213872	164555	227798	187307	213051	229974	240008	222280	208378	207074	100424	189823	2404622		
13. NET GEN (MWH)	10241	10368	10190	10291	10208	10180	10213	10257	10228	10259	10301	10316	10247		
14. ANCHR (BTU/MWH)	75.0	63.8	79.8	69.4	78.4	85.2	86.1	79.7	77.2	72.6	68.1	66.5	75.1		
15. NOF (%)	431	431	431	421	421	421	421	421	421	421	431	431	431		
16. NSC (MW)															
17. ANCHR EQUATION	ANCHR = NOF(-18.2412) + 11617.3														

FILED:  
SUSPENDED:  
EFFECTIVE: 10/01/98  
DOCKET NO.: 960001-EI  
ORDER NO.:

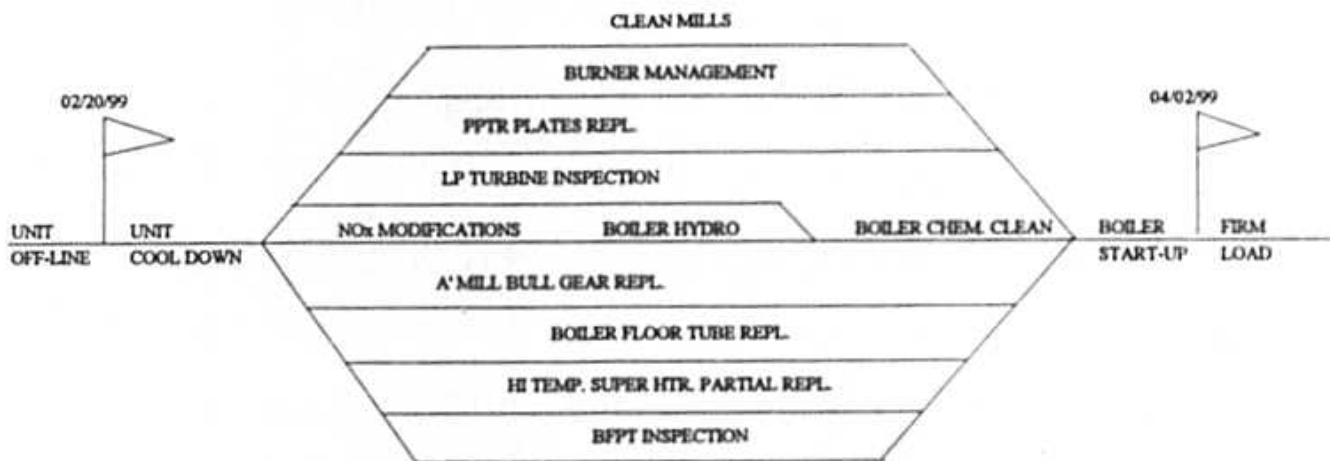
TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 3	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1. EAF (%)	82.0	55.7	0.0	76.4	82.0	81.8	82.0	82.0	81.8	81.9	81.8	82.0	72.5
2. POF	0.0	32.1	100.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
3. EUOF	18.0	12.2	0.0	17.0	18.0	18.2	18.0	18.0	18.2	18.1	18.2	18.0	16.0
4. EUOR	18.0	18.0	0.0	18.2	18.0	18.2	18.0	18.0	18.2	18.1	18.2	18.0	18.1
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8780
6. SH	658	404	0	594	658	637	658	658	637	658	637	658	6857
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	86	268	744	125	86	83	86	86	83	87	83	86	1903
9. POH	0	216	744	48	0	0	0	0	0	0	0	0	1008
10. FOH & EFOH	91	56	0	83	91	89	91	91	89	92	89	91	953
11. MOH & EMOH	43	26	0	39	43	42	43	43	42	43	42	43	448
12. OPER BTU (GBTU)	2393.823	1349.192	0.000	2151.917	2409.059	2386.008	2493.312	2476.542	2380.543	2383.089	2231.058	2354.759	25009.282
13. NET GEN (MWH)	240502	135110	0	215566	242222	238907	247062	245396	238335	238473	223951	236476	2503000
14. ANOHR (BTU/KWH)	9953	9986	0	9983	9946	9987	10092	10092	9988	9951	9982	9958	9992
15. NOF (%)	83.4	76.4	0.0	84.8	86.0	87.6	87.7	87.1	87.4	83.1	80.3	82.1	84.5
16. NSC (MW)	438	438	438	428	428	428	428	428	428	438	438	438	432
17. ANOHR EQUATION	ANOHR = NOF(-29.4092) + 12476.8												

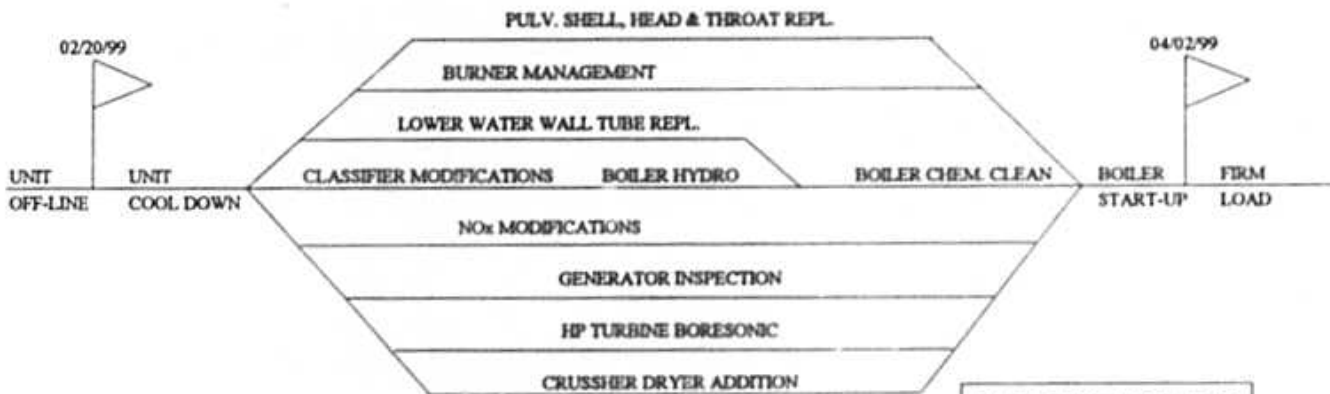
FILED:  
SUSPENDED:  
EFFECTIVE: 04/01/98  
DOCKET NO.: 990001-EI  
ORDER NO.:

**TAMPA ELECTRIC COMPANY  
PLANNED OUTAGE SCHEDULE (ESTIMATED)  
GPIF UNITS  
JANUARY 1999 - DECEMBER 1999**

<u>PLANT / UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE DISCRPTION</u>
+ BIG BEND 1	OCT 16 - OCT 29	FUEL SYSTEM CLEAN-UP
+ BIG BEND 2	NOV 13 - NOV 26	FUEL SYSTEM CLEAN-UP
BIG BEND 3	FEB 20 - APR 2	NOx MODIFICATIONS LP TURBINE INSP. A' MILL BULL GEAR REPL. BOILER FLOOR TUBE REPL. HI TEMP. SUPERHTR. PARTIAL REPL. PPTR. PLATES REPL. BURNER MANAGEMENT BFPT INSPECTION CLEAN MILLS
+ BIG BEND 4	NOV 27 - DEC 17	FUEL SYSTEM CLEAN-UP
+ GANNON 5	MAY 29 - JUN 4	FUEL SYSTEM CLEAN-UP
+ GANNON 5	OCT 30 - NOV 12	FUEL SYSTEM CLEAN-UP
GANNON 6	APR 10 - MAY 28	CLASSIFIER MODIFICATIONS NOx MODIFICATIONS BURNER MANAGEMENT PULV. SHELL, HEAD & THROAT REPL. CHRUSHER DRYER ADDITION GENERATOR INSPECTION HP TURBINE BORESONIC INSP. LOWER WATER WALL TUBE REPL.
+ CPM WAS NOT INCLUDED FOR THIS UNIT, OUTAGE IS LESS THAN 4 WEEKS		

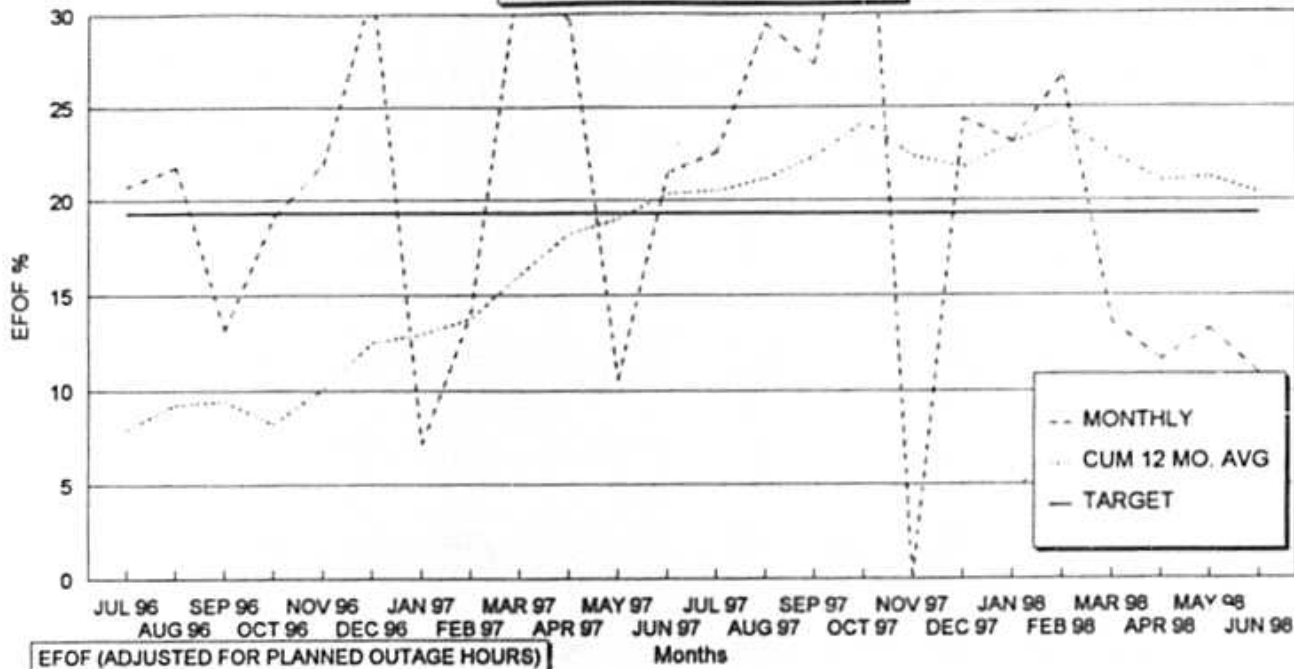


TAMPA ELECTRIC COMPANY  
BIG BEND UNIT NUMBER 3  
PLANNED OUTAGE 1999  
PROJECTED CPM  
10/01/99

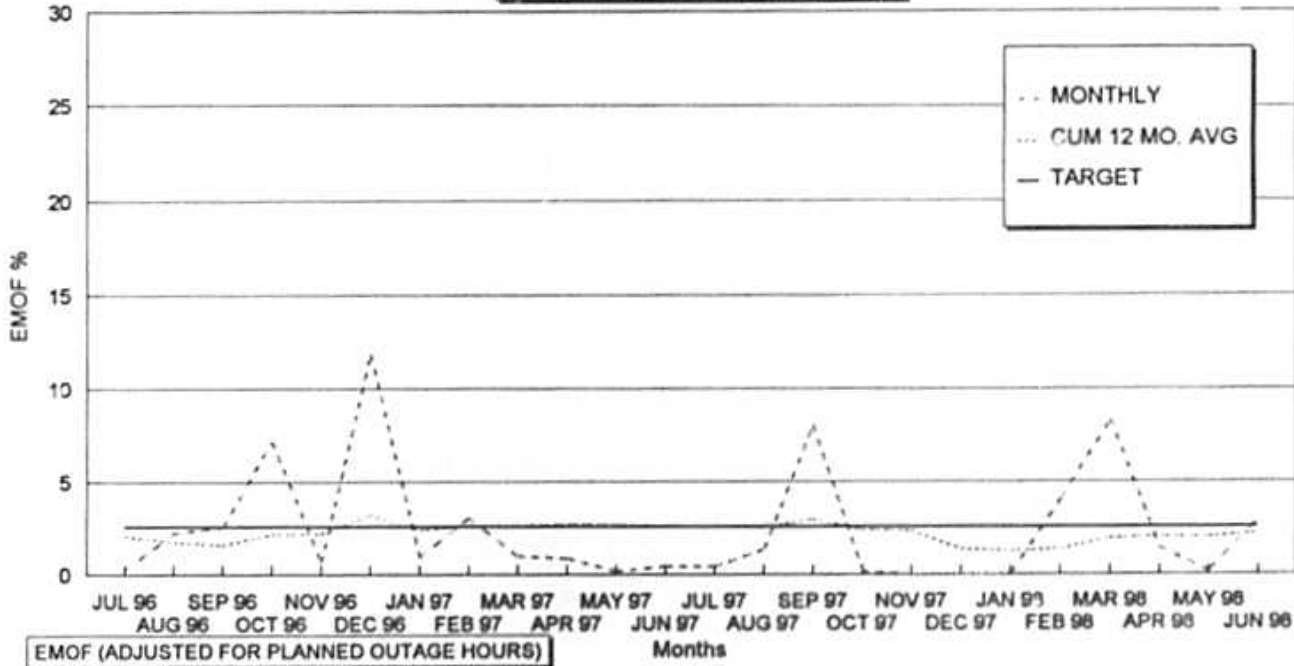


TAMPA ELECTRIC COMPANY  
GANNON UNIT NUMBER 6  
PLANNED OUTAGE 1999  
PROJECTED CPM  
10/01/99

**Gannon Unit 5**  
EFOF

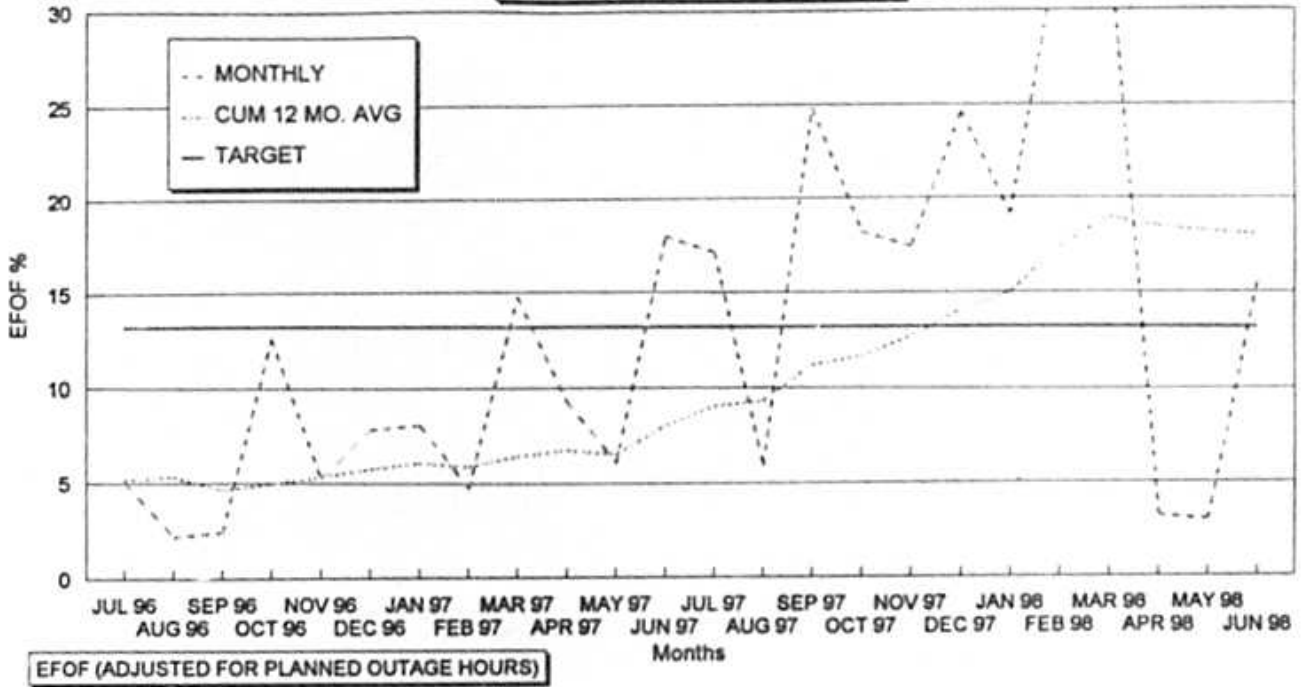


**Gannon Unit 5**  
EMOF

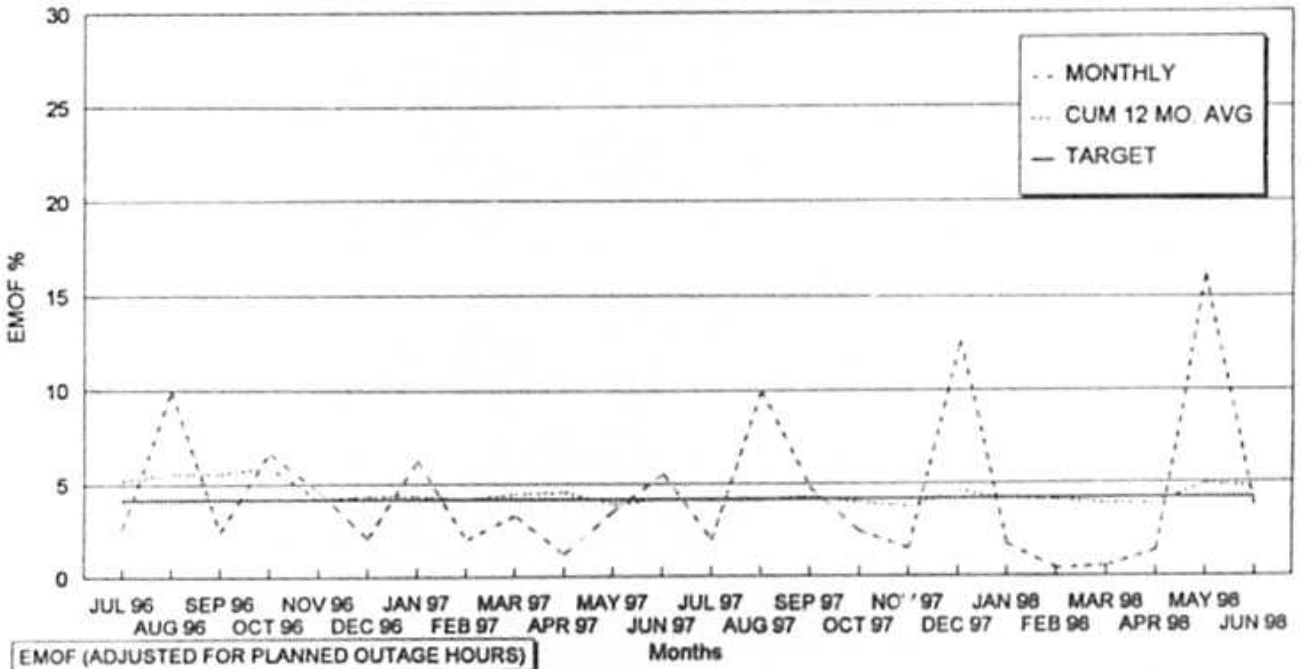




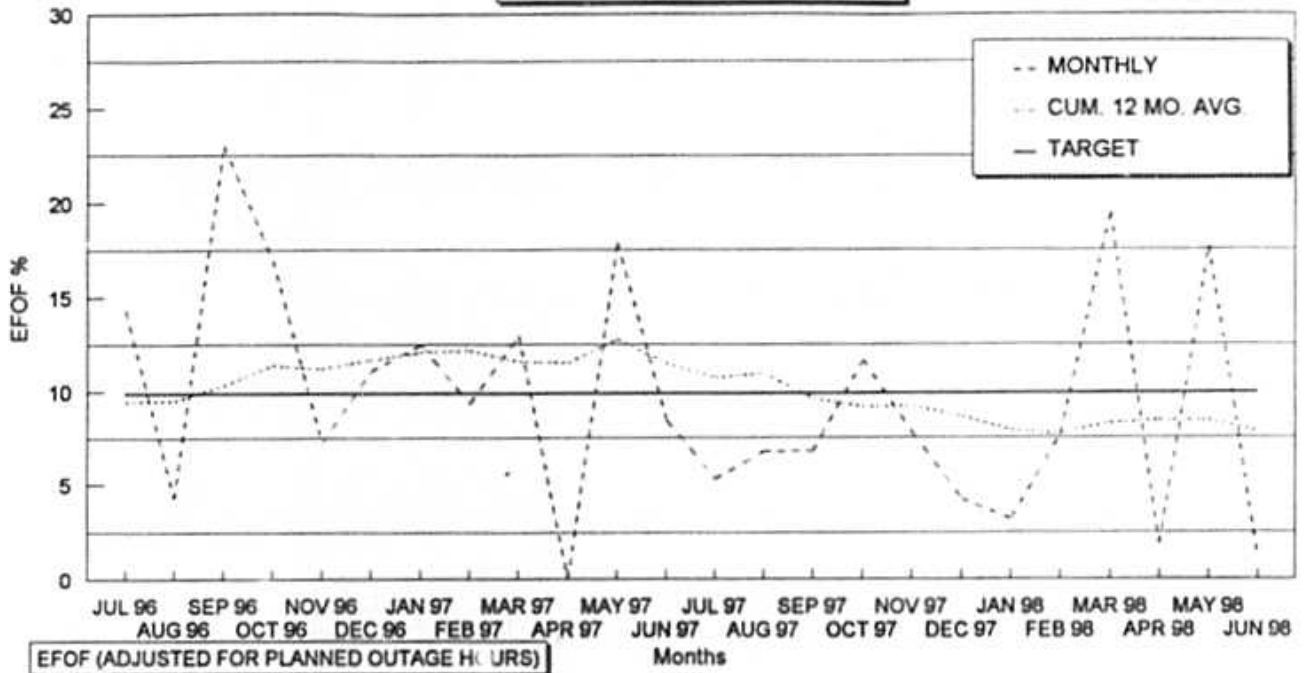
**Gannon Unit 6**  
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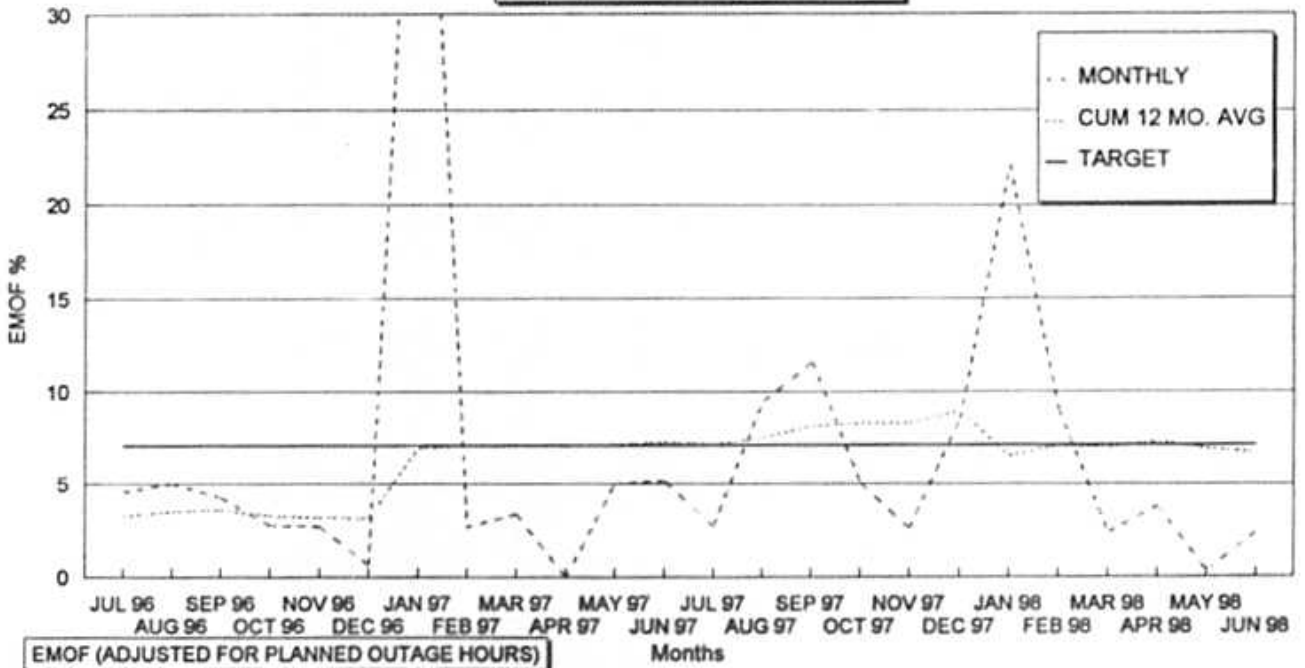
**Gannon Unit 6**  
EMOF



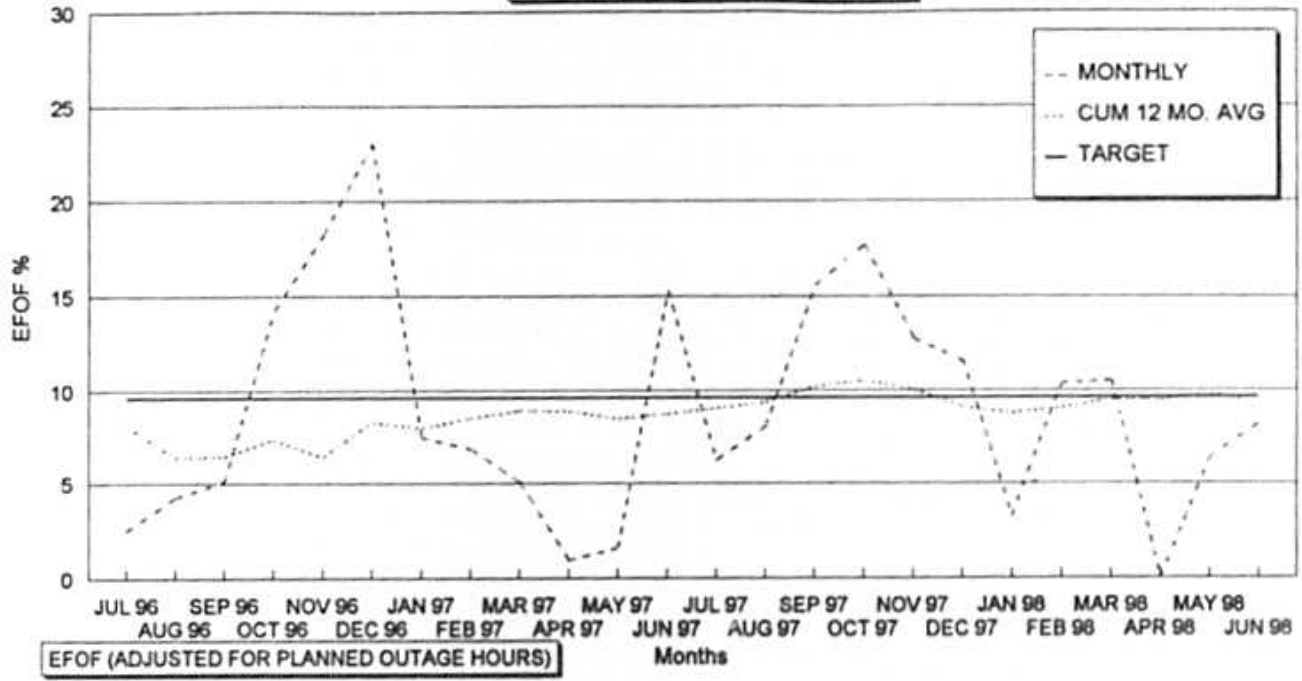
**Big Bend Unit 1**  
 EFOF



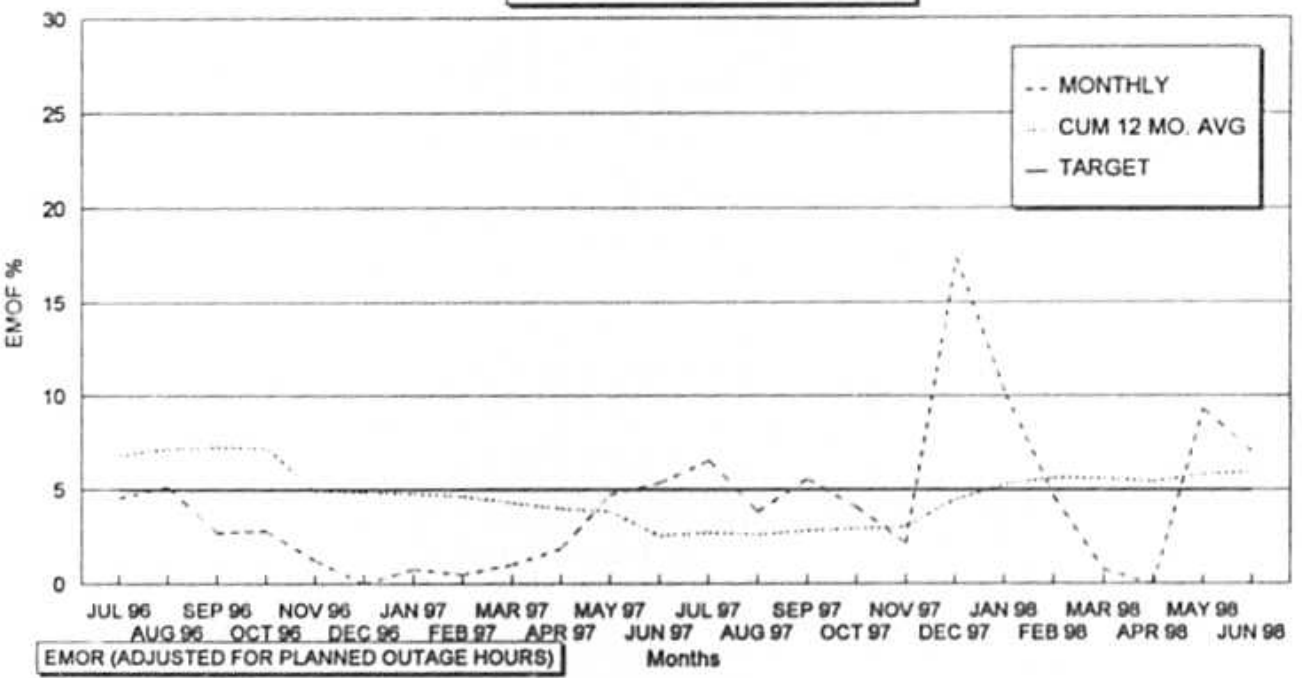
**Big Bend Unit 1**  
 EMOF



**Big Bend Unit 2**  
 EFOF

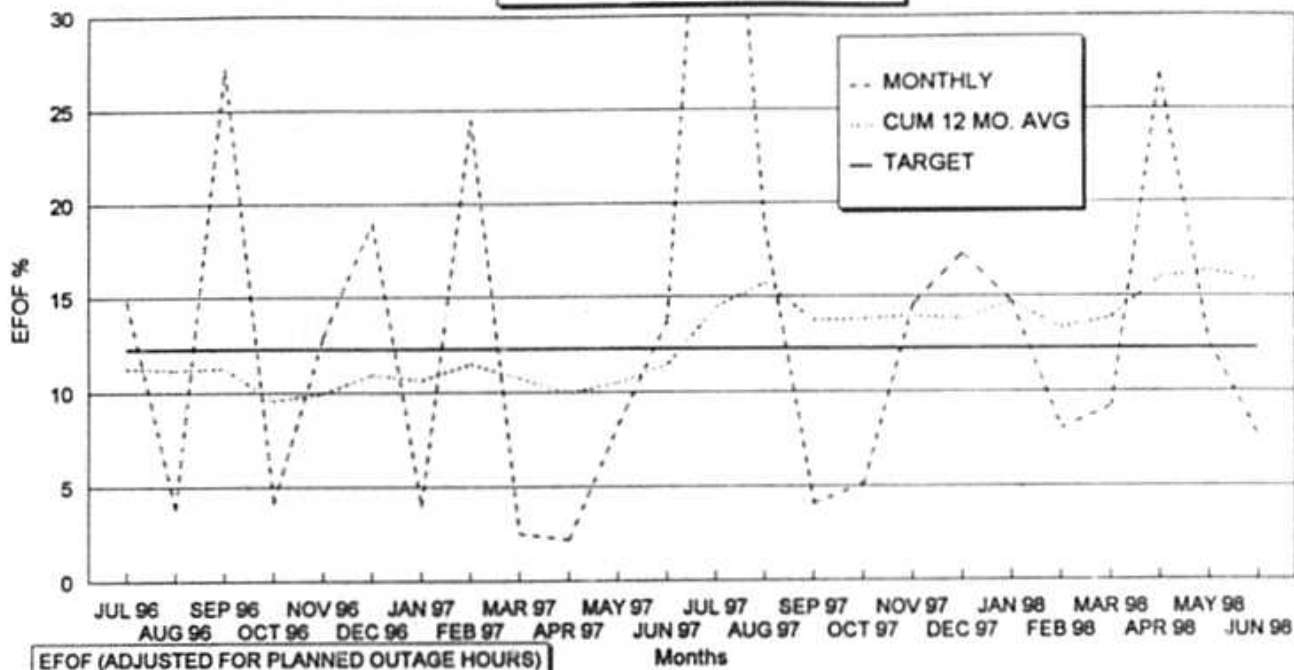


**Big Bend Unit 2**  
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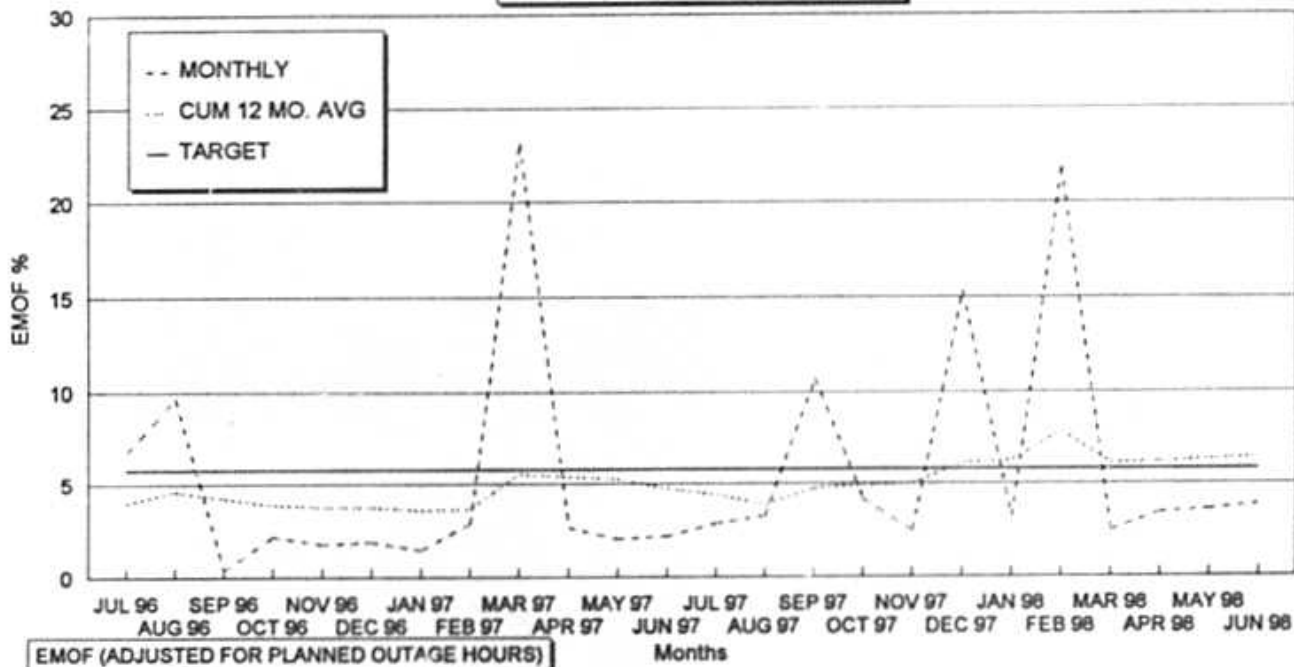
### Big Bend Unit 3

EFOF

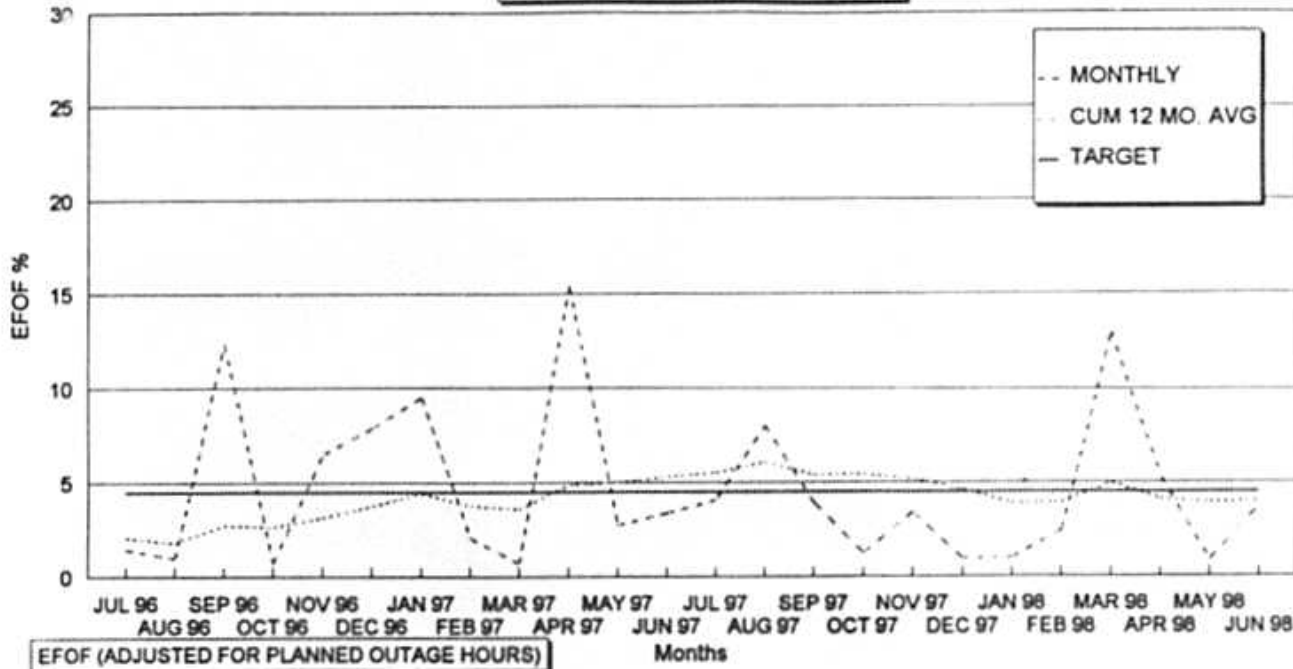


### Big Bend Unit 3

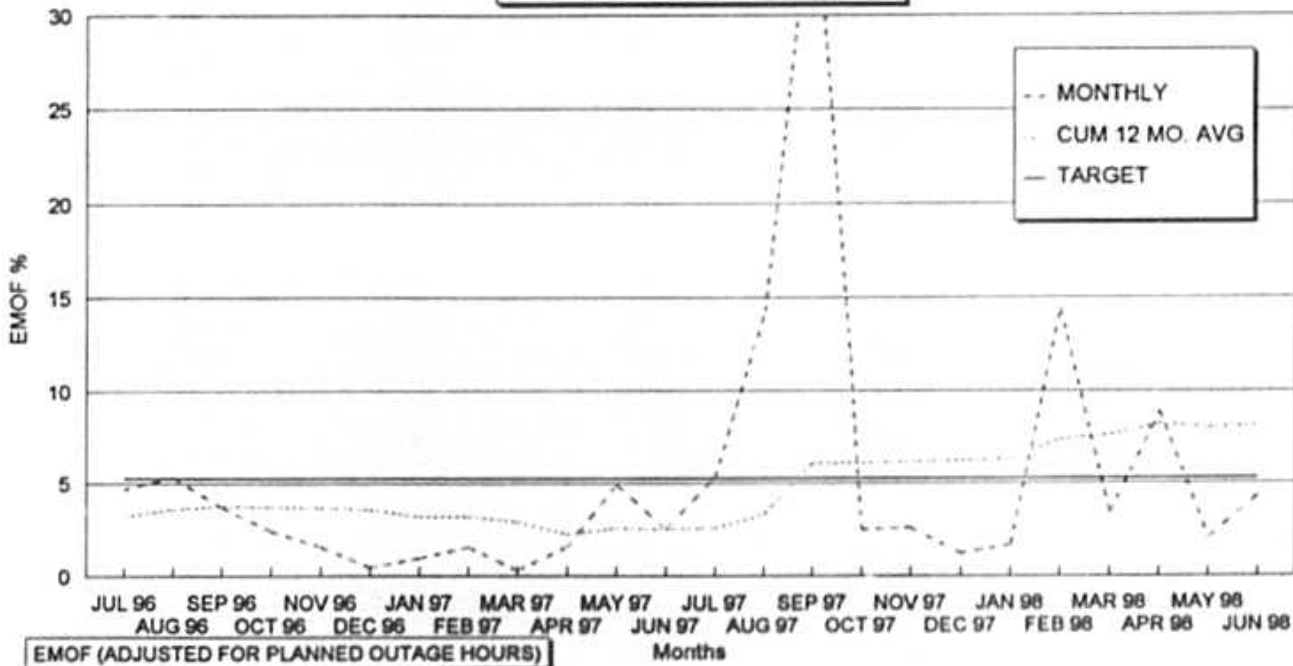
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**Big Bend Unit 4**  
 EFOF



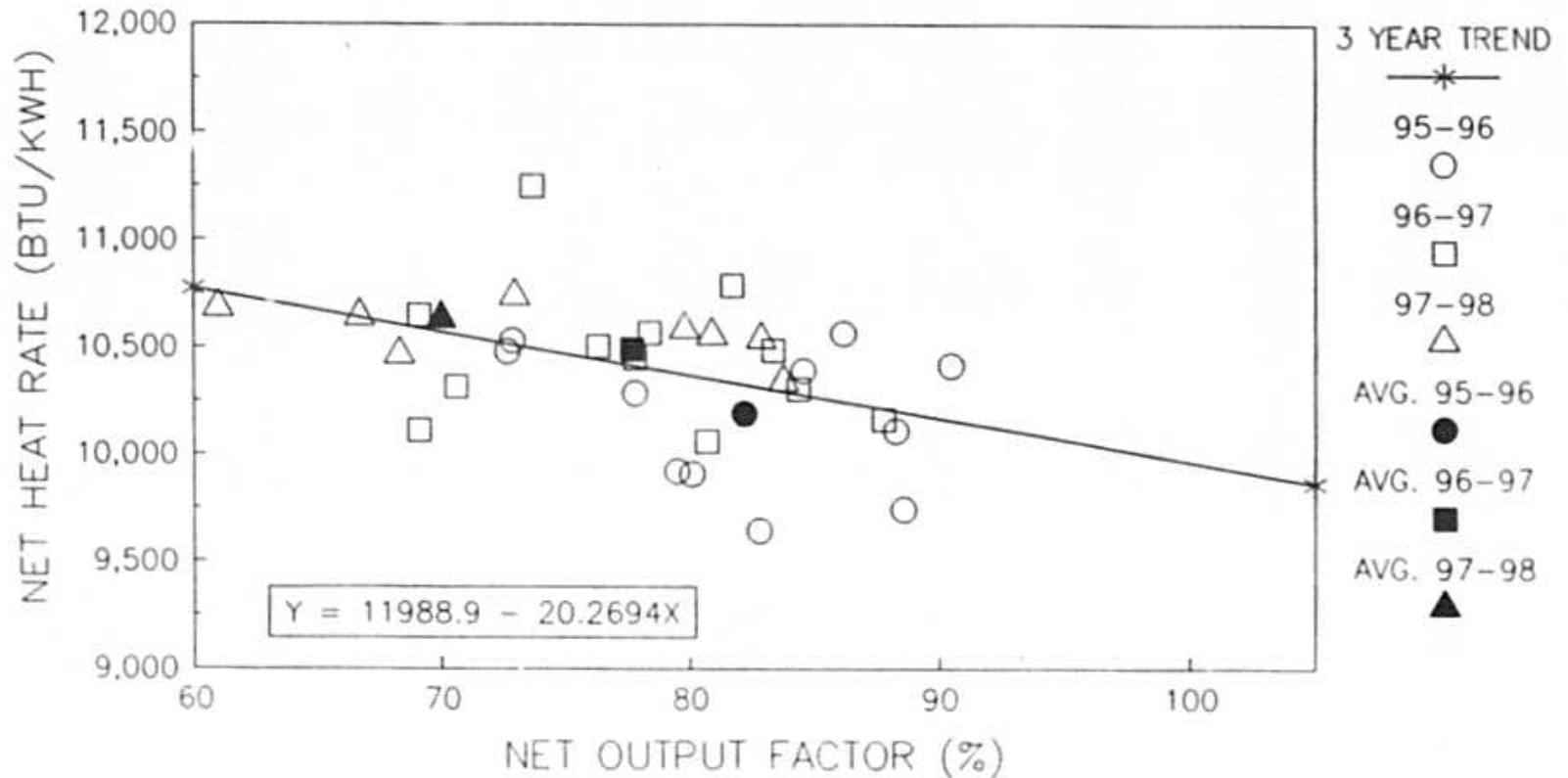
**Big Bend Unit 4**  
 EMOF



# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### GANNON 5, Annual 1999

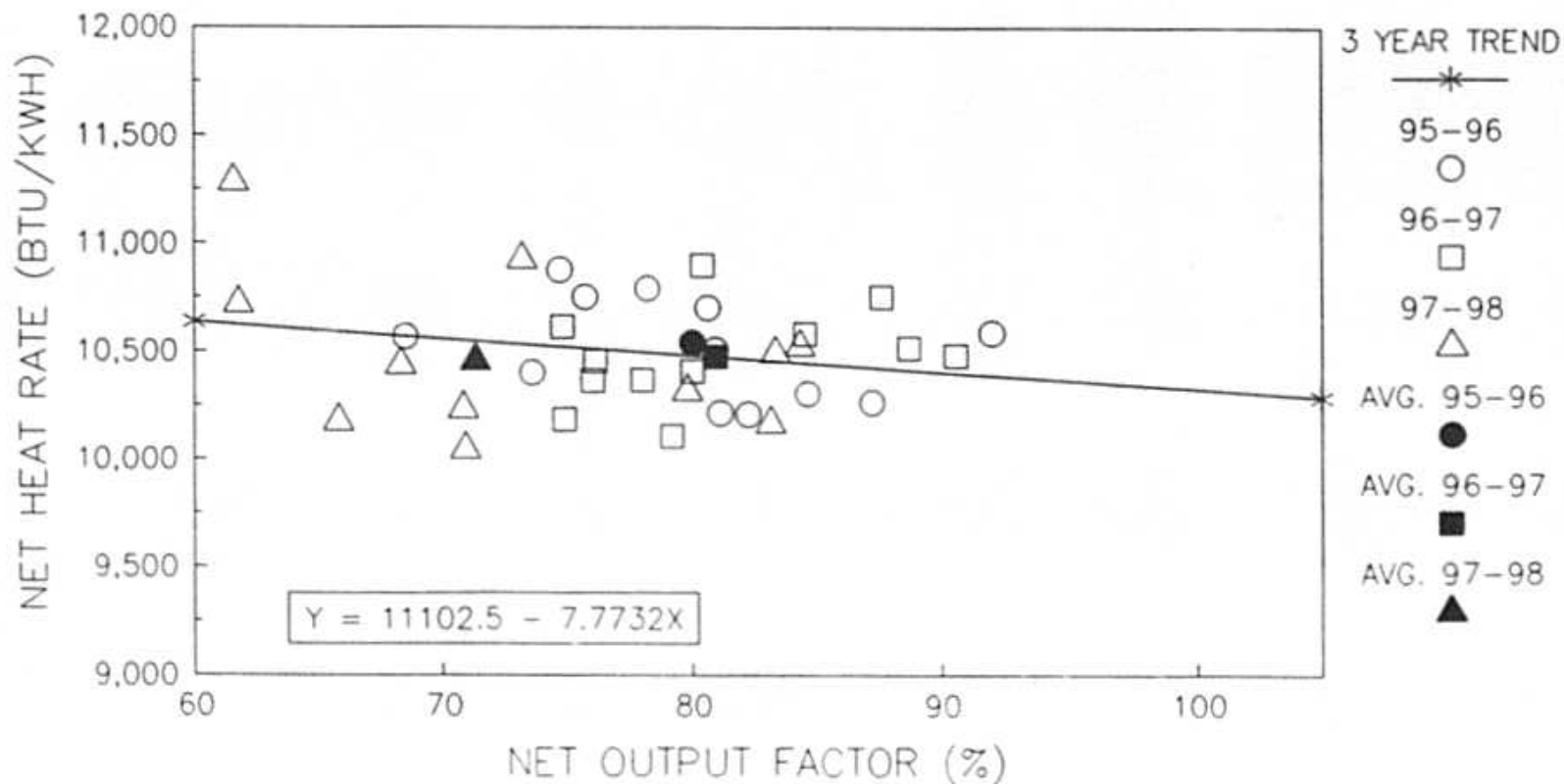


TARGET NET HEAT RATE: 10150  
 TARGET NET OUTPUT FACTOR: 90.7%

# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

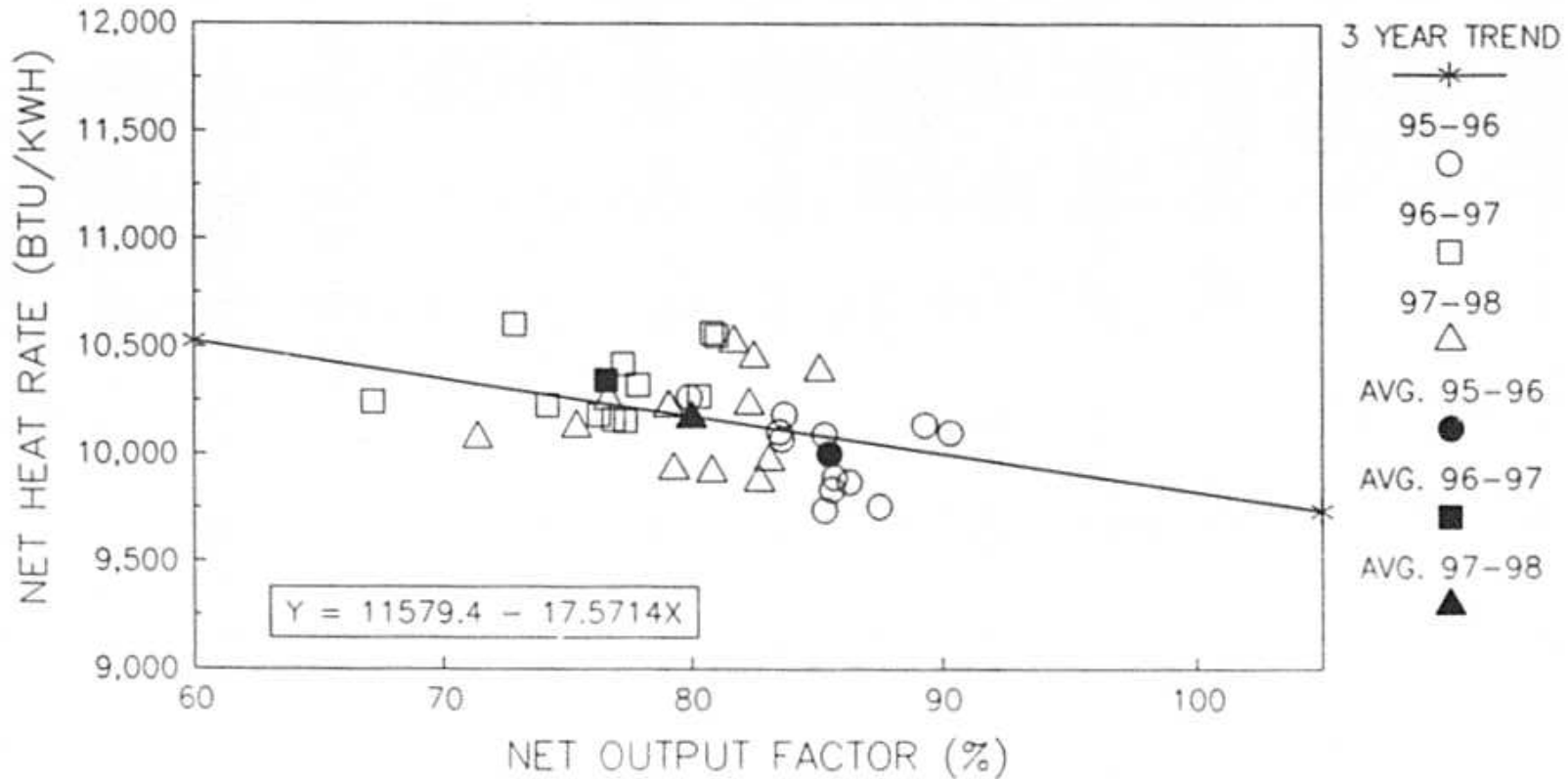
### GANNON 6, Annual 1999



# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 1, Annual 1999



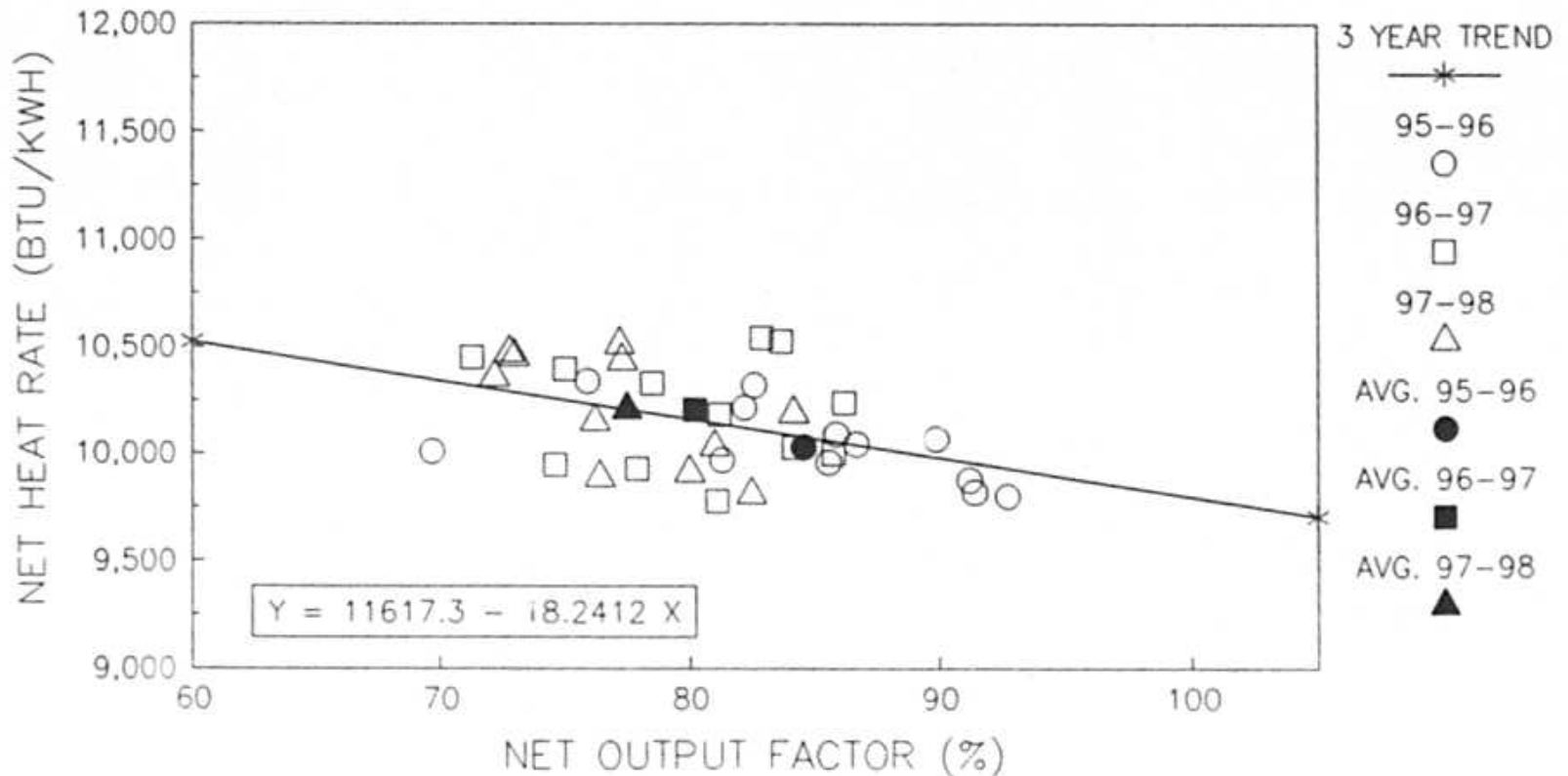
TARGET NET HEAT RATE: 10230  
 TARGET NET OUTPUT FACTOR: 76.8%



# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 2, Annual 1999

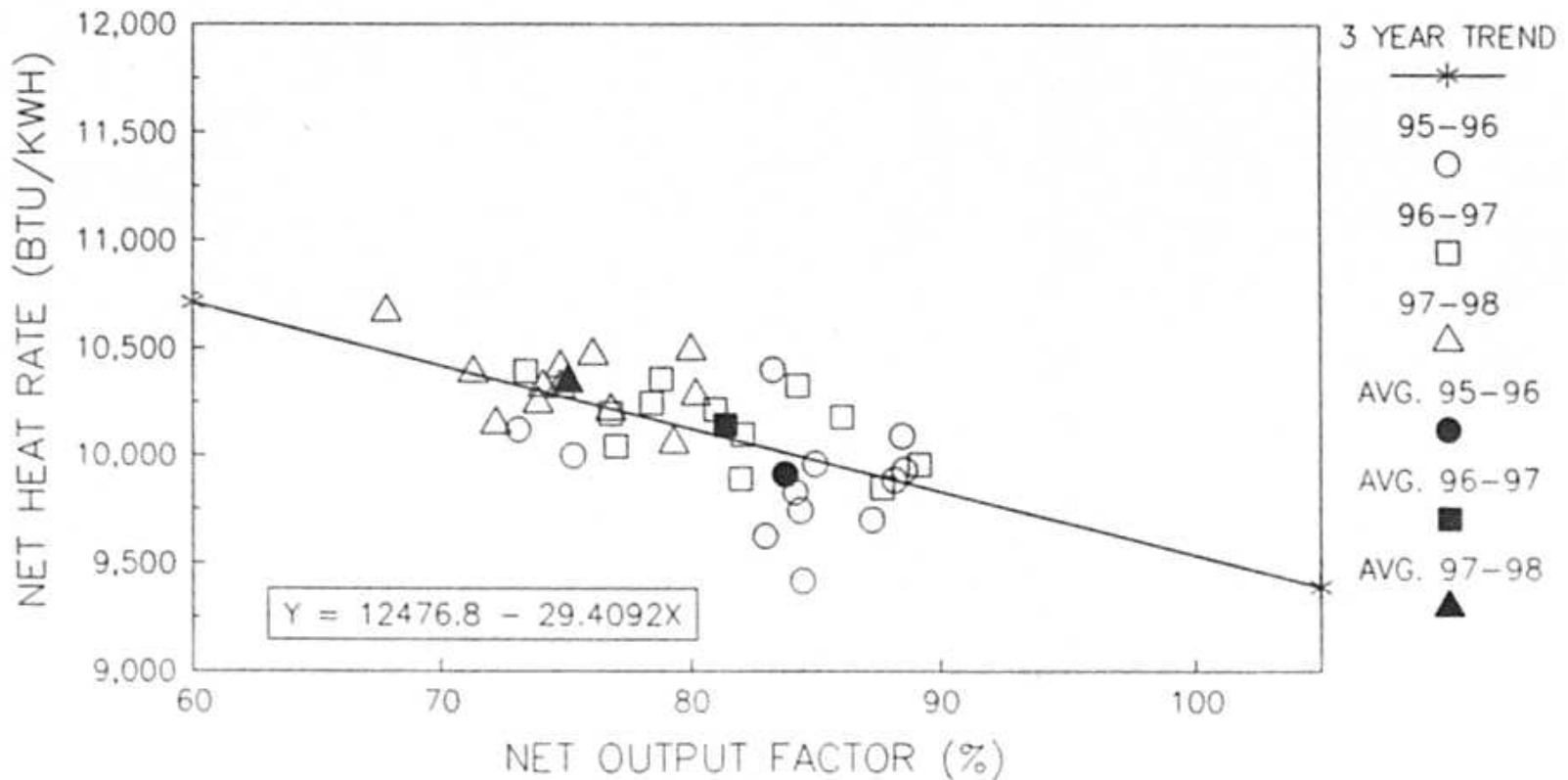


TARGET NET HEAT RATE: 10247  
 TARGET NET OUTPUT FACTOR: 75.1%

# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 3, Annual 1999

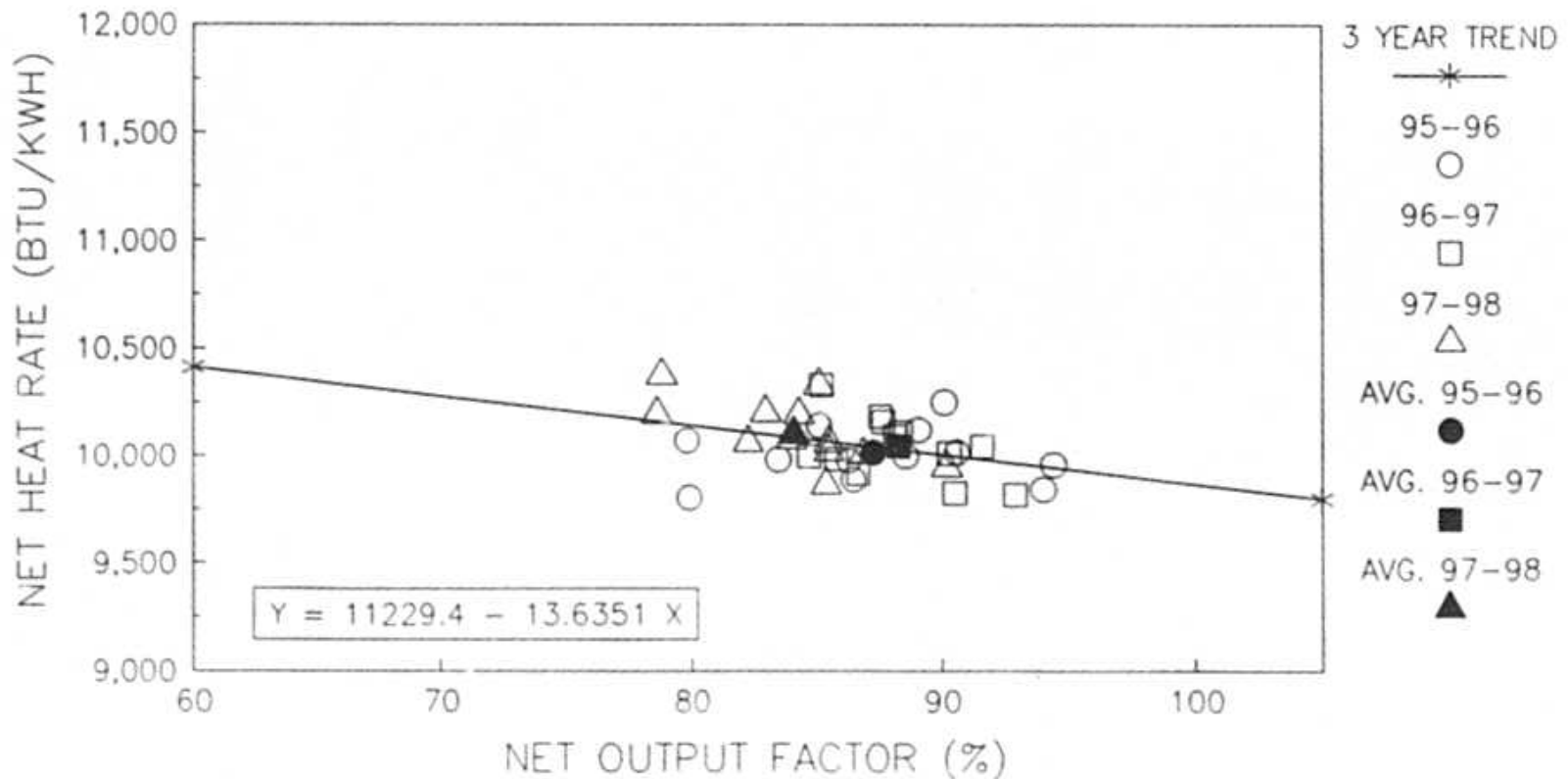


TARGET NET HEAT RATE: 9992  
 TARGET NET OUTPUT FACTOR: 84.5%

# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 4, Annual 1999



TARGET NET HEAT RATE: 9938  
 TARGET NET OUTPUT FACTOR: 94.7%

**TAMPA ELECTRIC COMPANY  
TABLE 4.2  
GENERATING UNITS IN GPIF  
JANUARY 1999 - DECEMBER 1999**

<b>UNIT</b>	<b>MDC GROSS (MW)</b>	<b>NDC NET (MW)</b>
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
<b>TOTAL</b>	<b>2470</b>	<b>2371</b>
<b>SYSTEM TOTAL</b>	<b>3795</b>	<b>3587</b>
<b>% OF SYSTEM TOTAL</b>	<b>65.09%</b>	<b>66.10%</b>

TAMPA ELECTRIC COMPANY  
UNITS RATINGS  
JANUARY 1999 - DECEMBER 1999

<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  
JANUARY 1999 - DECEMBER 1999

STATION	UNIT	NET OUTPUT MWH	% OF PROJECTED OUTPUT	% CUMULATIVE PROJECTED OUTPUT
BIG BEND	4	3,169,798	17.61%	17.61%
BIG BEND	3	2,580,870	14.34%	31.95%
BIG BEND	2	2,404,522	13.36%	45.31%
BIG BEND	1	2,370,514	13.17%	58.48%
GANNON	6	2,008,486	11.15%	69.62%
POLK		1,635,341	9.09%	78.71%
GANNON	5	1,279,344	7.11%	85.82%
GANNON	4	769,743	4.28%	90.09%
GANNON	3	712,831	3.96%	94.05%
GANNON	1	423,837	2.35%	96.41%
GANNON	2	312,282	1.73%	98.14%
HOOKEERS POINT	5	62,210	0.35%	98.49%
HOOKEERS POINT	4	50,487	0.28%	98.77%
HOOKEERS POINT	3	40,500	0.22%	98.99%
HOOKEERS POINT	1	40,399	0.22%	99.22%
HOOKEERS POINT	2	39,372	0.22%	99.44%
PHILLIPS	1	26,075	0.14%	99.58%
PHILLIPS	2	25,792	0.14%	99.72%
BIG BEND CT	2	22,282	0.12%	99.85%
BIG BEND CT	3	20,333	0.11%	99.96%
BIG BEND CT	1	3,588	0.02%	99.98%
GANNON CT	1	3,487	0.02%	100.00%
TOTAL GENERATION		18,000,193	100.00%	
GENERATION BY COAL UNITS:		<u>17,665,668</u>	MWH	
% GENERATION BY COAL UNITS:		<u>98.14%</u>		
GENERATION BY OIL UNITS:		<u>334,525</u>	MWH	
% GENERATION BY OIL UNITS:		<u>1.86%</u>		
GENERATION BY GPIF UNITS:		<u>13,811,534</u>	MWH	
% GENERATION BY GPIF UNITS:		<u>76.73%</u>		

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

<b>SCHEDULE</b>	<b>PAGE</b>
BIG BEND 1 - ESTIMATED UNIT PERFORMANCE DATA	2
BIG BEND 2 - ESTIMATED UNIT PERFORMANCE DATA	3
BIG BEND 3 - ESTIMATED UNIT PERFORMANCE DATA	4
BIG BEND 4 - ESTIMATED UNIT PERFORMANCE DATA	5
GANNON 1 - ESTIMATED UNIT PERFORMANCE DATA	6
GANNON 2 - ESTIMATED UNIT PERFORMANCE DATA	7
GANNON 3 - ESTIMATED UNIT PERFORMANCE DATA	8
GANNON 4 - ESTIMATED UNIT PERFORMANCE DATA	9
GANNON 5 - ESTIMATED UNIT PERFORMANCE DATA	10
GANNON 6 - ESTIMATED UNIT PERFORMANCE DATA	11
HOOKERS POINT 1 - ESTIMATED UNIT PERFORMANCE DATA	12
HOOKERS POINT 2 - ESTIMATED UNIT PERFORMANCE DATA	13
HOOKERS POINT 3 - ESTIMATED UNIT PERFORMANCE DATA	14
HOOKERS POINT 4 - ESTIMATED UNIT PERFORMANCE DATA	15
HOOKERS POINT 5 - ESTIMATED UNIT PERFORMANCE DATA	16
GANNON CT1 - ESTIMATED UNIT PERFORMANCE DATA	17
BIG BEND CT1 - ESTIMATED UNIT PERFORMANCE DATA	18
BIG BEND CT2 - ESTIMATED UNIT PERFORMANCE DATA	19
BIG BEND CT3 - ESTIMATED UNIT PERFORMANCE DATA	20
PHILLIPS 1 - ESTIMATED UNIT PERFORMANCE DATA	21
PHILLIPS 2 - ESTIMATED UNIT PERFORMANCE DATA	22
POLK - ESTIMATED UNIT PERFORMANCE DATA	23

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	PERIOD
BIG BEND 1													1999
1 EAF (%)	82.9	82.9	82.9	83.0	82.9	83.1	82.9	82.9	83.1	45.8	83.1	82.9	78.8
2 POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.1	0.0	0.0	3.8
3 ELDF	17.1	17.1	17.1	17.0	17.1	16.9	17.1	17.1	16.9	9.3	16.9	17.1	16.4
4 ELA3R	17.1	17.1	17.1	17.0	17.1	16.9	17.1	17.1	16.9	16.9	16.9	17.1	17.0
5 PH	744	672	744	719	744	720	744	744	720	745	720	744	8780
6 SH	639	577	639	618	639	618	639	639	618	350	618	639	7233
7 RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8 UH	105	95	105	101	105	102	105	105	102	365	102	105	1527
9 POH	0	0	0	0	0	0	0	0	0	338	0	0	338
10 FOH & EFOH	74	67	74	71	74	71	74	74	71	40	71	74	835
11 MOH & EMOH	53	48	53	51	53	51	53	53	51	29	51	53	589
12 OPER BTU (GBTU)	2158.855	1680.881	2289.289	1958.882	2120.462	2293.484	2398.928	2221.173	2108.155	1160.202	1889.718	1952.019	24250.159
13 NET GEN (MMW)	212410	165137	225268	191434	207212	224385	233054	215435	208153	112878	185416	191734	2370514
14 ANCHOR (BTU/KWH)	10154	10240	10163	10222	10233	10221	10298	10310	10231	10279	10246	10181	10230
15 NOF (%)	77.1	66.4	81.8	73.6	77.0	86.2	86.6	80.1	78.2	74.8	69.6	69.6	78.8
16 NSC (MW)	431	431	431	421	421	421	421	421	421	431	431	431	427
17 ANCHOR EQUATION	ANCHOR = NOF(-17.5714) + 11579.4												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF JAN 99	MONTH OF FEB 99	MONTH OF MAR 99	MONTH OF APR 99	MONTH OF MAY 99	MONTH OF JUN 99	MONTH OF JUL 99	MONTH OF AUG 99	MONTH OF SEP 99	MONTH OF OCT 99	MONTH OF NOV 99	MONTH OF DEC 99	PERIOD 1999
BIG BEND 2													
1. EAF (%)	85.5	85.3	85.5	85.4	85.5	85.4	85.5	85.5	85.4	85.4	45.8	85.5	82.2
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0	3.8
3. EUOF	14.5	14.7	14.5	14.6	14.5	14.6	14.5	14.5	14.6	14.6	7.8	14.5	14.0
4. EUOR	14.5	14.7	14.5	14.6	14.5	14.6	14.5	14.5	14.6	14.6	14.6	14.5	14.6
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	662	598	662	641	662	641	662	662	641	662	342	662	7497
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	82	74	82	78	82	79	82	82	79	83	378	82	1263
9. POH	0	0	0	0	0	0	0	0	0	0	336	0	336
10. FOH & EFOH	71	65	71	69	71	69	71	71	69	72	37	71	807
11. MOH & EMOH	37	34	37	36	37	36	37	37	36	37	19	37	420
12. OPER BTU (GBTU)	2190.358	1706.091	2321.341	1927.556	2174.801	2341.144	2451.255	2279.659	2130.858	2124.281	1034.427	1958.294	24640.065
13. NET GEN (MMH)	213872	164555	227796	187307	213051	229974	240008	222260	208376	207074	100424	189823	2404522
14. ANOHR (BTU/KWH)	10241	10368	10190	10291	10208	10180	10213	10257	10226	10259	10301	10316	10247
15. NOF (%)	75.0	63.8	79.8	69.4	76.4	85.2	86.1	79.7	77.2	72.6	68.1	66.5	75.1
16. NSC (MW)	431	431	431	421	421	421	421	421	421	431	431	431	427
17. ANOHR EQUATION	ANOHR = NOF(-18.2412) + 11617.3												

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EFFECTIVE 1001/98  
DOCKET NO 990001-EI  
ORDER NO

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1998 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD	
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99		
BIG BEND 3														1999
1. EAF (%)	82.0	55.7	0.0	76.4	82.0	81.8	82.0	82.0	81.8	81.9	81.8	82.0	82.0	72.5
2. POF	0.0	32.1	100.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
3. EUOF	18.0	12.2	0.0	17.0	18.0	18.2	18.0	18.0	18.2	18.1	18.2	18.0	18.0	18.0
4. EUOR	18.0	18.0	0.0	18.2	18.0	18.2	18.0	18.0	18.2	18.1	18.2	18.0	18.0	18.1
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	744	8760
6. SH	658	404	0	594	658	637	658	658	637	658	637	658	658	6857
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	86	268	744	125	86	83	86	86	83	87	83	86	86	1903
9. POH	0	216	744	48	0	0	0	0	0	0	0	0	0	1008
10. FOH & EFOH	91	56	0	83	91	89	91	91	89	92	89	91	91	863
11. MOH & EMOH	43	26	0	39	43	42	43	43	42	43	42	43	43	448
12. OPER BTU (GBTU)	2393 823	1348 192	0 000	2151 917	2408 059	2386 008	2483 312	2478 542	2380 543	2383 069	2231 058	2354 759	25008 262	
13. NET GEN (MMH)	240502	135110	0	215568	242222	238907	247062	245398	238335	239473	223951	236476	2503000	
14. ANOHR (BTUKWH)	9953	9686	0	9983	9946	9687	10092	10092	9686	9651	9962	9958	9992	
15. NOF (%)	83.4	76.4	0.0	84.8	86.0	87.6	87.7	87.1	87.4	83.1	80.3	82.1	84.5	
16. NSC (MW)	438	438	438	428	428	428	428	428	428	438	438	438	432	
17. ANOHR EQUATION	ANOHR = NOF(-29 4092) + 12476 8													

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EFFECTIVE 04/01/98  
DOCKET NO 990001-EI  
ORDER NO

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD	
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99		
BIG BEND 4	90.2	90.2	90.2	90.3	90.2	90.2	90.1	90.2	90.2	90.1	90.2	78.2	40.7	1999
1. EAF (%)	90.2	90.2	90.2	90.3	90.2	90.2	90.1	90.2	90.2	90.1	90.2	78.2	40.7	85.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	54.8	5.8
3. EUOF	9.8	9.8	9.8	9.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	8.5	4.4	9.2
4. EUOR	9.8	9.8	9.8	9.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
5. PH	744	872	744	719	744	744	720	744	744	720	745	720	744	8760
6. SH	684	618	684	682	684	684	682	684	684	684	682	684	574	7500
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	60	54	60	57	60	60	58	60	60	58	61	148	438	1170
9. POH	0	0	0	0	0	0	0	0	0	0	0	96	408	504
10. FOH & EFOH	34	30	34	32	34	34	33	34	34	33	34	28	15	375
11. MOH & EMOH	39	36	39	38	39	39	38	39	39	38	39	33	18	435
12. OPER BTU (GBTU)	2784 508	2448 371	2903 563	2744 836	2912 226	2820 376	2925 181	2898 829	2805 802	2855 037	2401 237	1274 713	31770 279	
13. NET GEN (MWH)	281321	247088	293175	277609	294336	282543	291130	288463	281143	288343	242598	129049	3198798	
14. ANOHR (BTUKWH)	9698	9901	9904	9887	9894	9882	10048	10042	9879	9802	9898	9878	9838	
15. NOF (%)	92.0	89.4	93.9	94.9	97.4	98.6	98.3	95.4	98.1	94.3	94.6	93.7	94.7	
16. NSC (MW)	447	447	447	442	442	442	442	442	442	442	447	447	445	

17. ANOHR EQUATION ANOHR = NOF(-13.6351) + 11228.4

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ORDER NO

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 1	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1. EAF (%)	84.3	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	27.2	84.3	84.3	79.4
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7	0.0	0.0	5.8
3. EUOF	15.7	15.8	15.7	15.7	15.7	15.7	15.7	15.7	15.7	5.1	15.7	15.7	14.8
4. EUOR	15.7	15.8	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.8	15.7	15.7	15.7
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8780
6. SH	517	443	540	284	305	486	505	383	384	108	288	501	4730
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	227	229	204	435	439	254	239	351	338	639	434	243	4030
9. POH	0	0	0	0	0	0	0	0	0	504	0	0	504
10. FOH & EFOH	89	80	89	86	89	86	89	89	86	26	86	89	987
11. MOH & EMOH	28	26	28	27	28	27	28	28	27	9	27	28	311
12. OPER BTU (GBTU)	530,370	383,415	583,699	308,531	353,332	560,182	576,716	441,454	428,351	119,555	310,284	457,358	5053,257
13. NET GEN (MMH)	4065	31825	49854	26369	28681	44809	48718	37198	36300	10199	28599	38250	423837
14. ANOHR (BTU/KWH)	11772	12048	11708	11701	12328	12502	11838	11868	11800	11722	11665	11957	11923
15. NOF (%)	88.0	72.6	93.3	93.8	94.9	97.1	97.4	95.6	95.5	97.2	93.9	77.1	90.5
16. NSC (MW)	99	99	99	99	99	99	99	99	99	99	99	99	99

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EFFECTIVE 10/01/98  
DOCKET NO 990001-EI  
ORDER NO

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD	
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99		
GANNON 2	78.9	78.9	78.9	78.9	78.9	65.7	0.0	28.0	78.8	78.9	78.8	78.8	78.9	1999
1. EAF (%)	78.9	78.9	78.9	78.9	78.9	65.7	0.0	28.0	78.8	78.9	78.8	78.8	78.9	88.8
2. POF	0.0	0.0	0.0	0.0	0.0	18.7	100.0	64.5	0.0	0.0	0.0	0.0	0.0	15.3
3. ELUOF	21.1	21.1	21.1	21.1	21.1	17.6	0.0	7.5	21.3	21.1	21.3	21.3	21.1	17.9
4. ELUOR	21.1	21.1	21.1	21.1	21.1	21.2	0.0	21.2	21.3	21.1	21.3	21.3	21.1	21.1
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	744	8780
6. SH	500	423	523	252	312	383	0	117	324	318	258	473	473	3883
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	244	249	221	467	432	337	744	627	306	427	462	271	487	4877
9. POH	0	0	0	0	0	120	744	480	0	0	0	0	0	1344
10. FOH & EFOH	115	104	115	111	115	83	0	41	112	115	112	115	115	1148
11. MOH & EMOH	42	38	42	41	42	34	0	15	41	42	41	42	42	420
12. OPER BTU (GBTU)	484,865	348,190	535,823	260,655	330,331	421,698	0,000	131,701	348,763	331,778	264,965	412,865	3871,724	3871,724
13. NET GEN (MWH)	39716	27783	43713	21228	29839	33537	0	10265	27856	28762	21733	33281	31282	31282
14. ANCHOR (BTUKWH)	12209	12532	12258	12279	12400	12574	0	12843	12811	12397	12183	12414	12398	12398
15. MOF (%)	85.4	70.6	89.9	90.6	91.8	94.2	0.0	94.2	91.8	90.5	90.6	75.6	86.5	86.5
16. NSC (MW)	93	93	93	93	93	93	93	93	93	93	93	93	93	93

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EFFECTIVE 10/01/98  
DOCKET NO 990001-EI  
ORDER NO

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 3	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1. EAF (%)	84.0	84.1	84.0	84.0	84.0	25.1	84.0	84.0	84.0	84.0	84.0	84.0	79.2
2. POF	0.0	0.0	0.0	0.0	0.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
3. EUOF	16.0	15.9	16.0	16.0	16.0	4.9	16.0	16.0	16.0	16.0	16.0	16.0	15.1
4. EUOR	16.0	15.9	16.0	16.0	16.0	16.2	16.0	16.0	16.0	16.0	16.0	16.0	16.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	539	489	563	346	421	147	528	452	437	414	352	551	5239
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	205	183	181	373	323	573	216	292	283	331	368	193	3521
9. POH	0	0	0	0	0	504	0	0	0	0	0	0	504
10. FOH & EFOH	81	73	81	78	81	24	81	81	78	81	78	81	698
11. MOH & EMOH	38	34	38	37	38	11	38	38	37	38	37	38	422
12. OPER BTU (GBTU)	858,995	694,465	936,313	553,473	654,312	241,036	856,525	724,263	691,463	677,420	562,190	847,234	8297,689
13. NET GEN (MMH)	73881	59267	80790	47661	56292	20742	73384	61951	59371	58125	48518	72949	712931
14. ANOHR (BTU/KWH)	11627	11718	11589	11613	11624	11621	11672	11691	11646	11655	11567	11614	11639
15. NOF (%)	88.4	78.2	92.6	95.0	92.2	97.3	95.9	94.5	93.7	90.6	88.9	85.4	90.5
16. NSC (MW)	155	155	155	145	145	145	145	145	145	155	155	155	150

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EFFECTIVE 10/01/98  
DOCKET NO. 990001-EI  
ORDER NO.

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF:												PERIOD			
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99				
GANNON 4	81.3	81.4	81.3	81.4	81.3	81.4	81.3	81.4	81.3	81.4	81.3	81.4	81.3	81.3	81.3	81.3
1. EAF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. POF	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.7
3. EUOF	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.6	18.7	18.7
4. EUOR	744	672	744	719	744	720	744	744	720	744	720	744	720	744	744	2208
5. PH	514	454	536	308	480	474	508	264	256	373	312	513	513	513	513	1198
6. SH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. RSH	230	218	208	413	264	246	238	480	464	372	408	231	231	231	231	1011
8. UH	0	0	0	0	0	0	0	264	240	0	0	0	0	0	0	0
9. POH	108	97	108	104	108	104	108	70	70	108	104	108	108	108	108	320
10. FOH & EFOH	31	28	31	30	31	30	31	20	20	31	30	31	30	31	31	92
11. MOH & EMOH	917,095	670,346	1,015,960	572,458	808,161	892,650	961,610	497,651	475,553	703,894	578,821	802,888	802,888	802,888	802,888	2,085,603
12. OPER BTU (GBTU)	78902	56569	87829	49309	77487	76483	81885	42303	40680	60309	49981	68208	68208	68208	68208	178498
13. NET GEN (MMH)	11623	11946	11594	11610	10430	11674	11743	11764	11690	11671	11581	11772	11772	11772	11772	11684
14. ANOHR (BTUKWH)	65.8	69.6	91.3	95.3	95.5	95.5	95.8	94.8	94.0	90.3	89.5	74.3	74.3	74.3	74.3	85.8
15. NOF (%)	179	179	179	169	169	169	169	169	169	179	179	179	179	179	179	174
16. NSC (MMW)																

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ORDER NO.

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
OCTOBER 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF:												PERIOD				
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99					
GANNON 5																	1999
1. EAF (%)	78.1	78.1	78.1	78.0	70.6	67.6	78.1	78.1	78.1	78.1	73.0	46.9	78.1				73.6
2. POF	0.0	0.0	0.0	0.0	9.7	13.3	0.0	0.0	0.0	0.0	6.4	40.0	0.0				5.8
3. EUOF	21.9	21.9	21.9	22.0	19.8	18.9	21.9	21.9	21.9	21.9	20.5	13.1	21.9				20.6
4. EUOR	21.9	21.9	21.9	22.0	21.9	21.8	21.9	21.9	21.9	21.9	22.0	21.8	21.9				21.9
5. PH	744	672	744	719	744	720	744	744	744	744	745	720	744				8760
6. SH	540	557	618	516	556	458	565	531	514	577	577	358	617				6407
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0				0
8. UH	204	115	126	203	196	262	179	213	208	208	168	362	127				2353
9. POH	0	0	0	0	72	96	0	0	0	0	48	268	0				504
10. FOH & EFOH	144	130	144	139	130	120	144	144	139	144	135	83	144				1596
11. MOH & EMOH	19	17	19	19	17	16	19	19	19	19	18	11	19				212
12. OPER BTU (GBTU)	1041.994	1044.910	1292.355	1005.133	1146.480	955.516	1198.041	1116.117	1081.651	1157.088	734.648	1233.005					12965.938
13. NET GEN (MWH)	103882	104117	129123	99509	113019	93062	115310	107582	103407	113698	73435	123180					1278344
14. ANOHR (BTU/KWH)	10031	10036	10009	10111	10144	10265	10372	10375	10267	10177	10004	10010					10150
15. NOF (%)	82.9	80.6	90.1	85.0	89.5	89.5	89.9	89.3	88.6	84.9	86.4	86.1					90.7
16. NSC (MWH)	232	232	232	227	227	227	227	227	227	227	232	232	232				220
17. ANOHR EQUATION	ANOHR = NOF(-20.2694) + 11988.9																

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EFFECTIVE 10/01/98  
DOCKET NO 990001-E1  
ORDER NO



TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD			
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99				
GANNON 6																1999
1. EAF (%)	82.5	82.6	82.6	24.7	8.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	71.5
2. POF	0.0	0.0	0.0	70.1	90.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4
3. EUOF	17.4	17.4	17.4	5.2	1.7	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	15.1
4. ELOR	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
5. PH	744	672	744	719	744	720	744	744	720	745	720	745	720	744	744	8780
6. SH	545	444	653	141	48	633	654	654	633	654	633	627	633	627	491	6038
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. LH	189	228	91	578	698	87	90	90	87	230	87	230	83	253	272	2722
9. POH	0	0	0	504	672	0	0	0	0	0	0	0	0	0	0	1176
10. FOH & EFOH	86	89	96	28	10	95	98	98	95	98	95	98	95	98	98	1001
11. MOH & EMOH	31	28	31	9	3	30	31	31	30	31	30	31	30	31	31	318
12. OPER BTU (GBTU)	1831 016	1437 714	2286 297	483 624	170 123	2241 229	2338 175	2331 832	2238 654	1739 818	2108 953	1690 369	2108 953	1690 369	20868 624	
13. NET GEN (MMH)	177662	139846	220159	46842	16393	214358	222584	222092	214162	167102	203368	161648	203368	161648	2006486	
14. ANOHR (BTU/KWH)	10293	10281	10395	10325	10378	10456	10505	10469	10452	10411	10374	10272	10374	10272	10401	
15. NOF (%)	83.3	80.3	86.0	91.8	94.3	93.5	94.0	93.8	93.5	82.8	82.8	84.0	82.8	84.0	80.3	
16. NSC (MM)	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	368
17. ANOHR EQUATION	ANOHR = NOF(-7.7732) + 11102.5															

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EFFECTIVE 10/01/98  
DOCKET NO 990001 EI  
ORDER NO



TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF: JAN 99	MONTH OF: FEB 99	MONTH OF: MAR 99	MONTH OF: APR 99	MONTH OF: MAY 99	MONTH OF: JUN 99	MONTH OF: JUL 99	MONTH OF: AUG 99	MONTH OF: SEP 99	MONTH OF: OCT 99	MONTH OF: NOV 99	MONTH OF: DEC 99	PERIOD 1999
1. EAF (%)	86.1	53.3	93.0	93.0	93.0	93.1	93.0	93.0	93.1	93.0	93.1	93.0	87.7
2. POF	29.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
3. EUOF	4.8	3.9	7.0	7.0	7.0	6.9	7.0	7.0	6.9	7.0	6.9	7.0	6.6
4. EUOR	6.8	6.8	7.0	7.0	7.0	6.9	7.0	7.0	6.9	7.0	6.9	7.0	7.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	6760
6. SH	38	35	137	20	88	297	295	166	95	28	29	19	1247
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	706	637	607	699	656	423	449	578	625	717	691	725	7513
9. POH	216	288	0	0	0	0	0	0	0	0	0	0	504
10. FOH & EFOH	25	18	36	35	36	35	36	36	35	36	35	36	399
11. MOH & EMOH	11	8	16	15	16	15	16	16	15	16	15	16	175
12. OPER BTU (GBTU)	20,783	18,721	74,604	10,615	42,697	149,708	149,644	82,278	46,290	14,932	15,157	9,766	635,195
13. NET GEN (MWH)	1277	1151	4540	648	2679	9355	9297	5108	2891	904	922	600	39372
14. ANOHR (BTU/KWH)	16275	16265	16433	16381	15938	16003	16096	16108	16012	16518	16439	16277	16133
15. NOF (%)	98.8	98.7	97.5	101.3	95.1	98.4	98.5	98.2	95.1	95.0	93.5	92.9	95.4
16. NSC (MW)	34	34	34	32	32	32	32	32	32	34	34	34	33

FILED  
SUSPENDED  
EFFECTIVE: 10/01/98  
DOCKET NO: 990001-E1  
ORDER NO:

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD		
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99			
HOOKERS PT 3															1999
1 EAF (%)	83.0	39.8	78.1	93.0	93.0	93.1	93.0	93.0	93.1	93.0	93.1	93.0	93.1	93.0	87.7
2 POF	0.0	57.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
3 EUOF	7.0	3.0	5.8	7.0	7.0	6.9	7.0	7.0	6.9	7.0	6.9	7.0	6.9	7.0	6.8
4 EUOR	7.0	6.9	6.9	7.0	7.0	6.9	7.0	7.0	6.9	7.0	6.9	7.0	6.9	7.0	7.0
5 PH	744	672	744	719	744	720	744	744	720	745	720	744	720	744	8760
6 SH	36	36	139	23	132	304	295	127	112	32	32	21	32	21	1282
7 RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 UH	705	635	605	695	612	416	459	617	608	713	688	723	688	723	7478
9 POH	0	384	120	0	0	0	0	0	0	0	0	0	0	0	504
10 FOH & EFOH	36	14	30	35	36	35	36	36	35	36	35	36	35	36	400
11 MOH & EMOH	16	6	13	15	16	15	16	16	15	16	15	16	15	16	175
12 OPER BTU (GBTU)	20,862	18,161	74,598	11,867	63,700	152,011	147,715	64,229	54,710	16,683	16,564	10,818	16,564	10,818	652,836
13 NET GEN (MMH)	1299	1193	4622	735	4045	9577	8980	3895	3437	1020	1025	672	1025	672	46500
14 ANOHR (BTU/KWH)	16080	16081	15140	16146	15748	15873	16448	16490	15918	16356	16190	16098	16190	16098	16122
15 NOF (%)	98.0	97.5	97.8	99.9	95.8	98.4	98.5	95.8	95.9	93.8	94.2	94.1	94.2	94.1	95.4
16 NSC (MM)	34	34	34	32	32	32	32	32	32	34	34	34	34	34	33

FILED  
SUSPENDED  
EFFECTIVE 10/01/98  
DOCKET NO 990001-EI  
ORDER NO



TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD			
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99				
HOOKERS PT 5																1999
1. EAF (%)	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	75.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
3. EUOF	20.4	20.4	20.4	20.4	20.2	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	19.2
4. EUOR	20.4	20.4	20.4	20.4	20.2	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
5. PH	744	672	744	744	719	744	720	744	744	720	745	720	745	720	744	8760
6. SH	48	26	131	131	28	86	281	259	135	76	39	37	25	25	25	1153
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	690	646	613	691	656	459	485	609	644	644	706	683	719	719	719	7607
9. POH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	504
10. FOH & EFOH	121	109	121	121	116	117	117	121	121	117	121	121	121	121	121	1341
11. MOH & EMOH	31	28	31	31	29	31	30	31	31	30	31	30	31	31	31	343
12. OPER BTU (GBTU)	40,471	22,616	111,468	23,069	74,319	230,174	230,752	117,230	64,144	31,864	30,362	20,497	998,906	998,906	998,906	
13. NET GEN (MMH)	2580	1441	7094	1441	4625	14367	14302	7209	3963	1979	1914	1295	62210	62210	62210	
14. ANCHOR (BTUKWH)	15666	15695	15713	16009	16069	16021	16134	16262	16186	16101	15863	15828	16026	16026	16026	
15. NOF (%)	80.2	82.7	80.8	76.8	78.4	82.2	82.4	79.7	77.8	75.7	77.2	77.3	80.5	80.5	80.5	
16. NSC (MW)	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	

FILED  
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EFFECTIVE: 10/01/98  
DOCKET NO. 990001-EJ  
ORDER NO.

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF JAN 99	MONTH OF FEB 99	MONTH OF MAR 99	MONTH OF APR 99	MONTH OF MAY 99	MONTH OF JUN 99	MONTH OF JUL 99	MONTH OF AUG 99	MONTH OF SEP 99	MONTH OF OCT 99	MONTH OF NOV 99	MONTH OF DEC 99	PERIOD 1999
1. EAF (%)	77.8	78.0	77.8	77.9	77.8	77.9	42.6	77.3	77.9	77.9	77.9	77.8	74.9
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	45.2	0.0	0.0	0.0	0.0	0.0	3.8
3. EUOF	22.2	22.0	22.2	22.1	22.2	22.1	12.2	22.2	22.1	22.1	22.1	22.2	21.3
4. EUOR	22.2	22.0	22.2	22.1	22.2	22.1	22.3	22.2	22.1	22.1	22.1	22.2	22.1
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	6780
6. SH	9		26	6	35	55	34	56	27	9	9	5	277
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	735	686	718	713	709	685	710	688	693	736	711	739	6483
9. POH	0	0	0	0	0	0	336	0	0	0	0	0	336
10. FOH & EFOH	149	134	149	144	149	144	82	149	144	149	144	149	1686
11. MOH & EMOH	16	14	16	15	16	15	9	16	15	16	15	16	179
12. OPER BTU (GBTU)	2,796	1,737	7,978	1,417	8,402	13,360	8,317	13,525	6,556	2,114	2,145	1,419	69,766
13. NET GEN (MWH)	154	95	438	69	409	652	407	658	319	103	104	78	3487
14. ANOHR (BTU/KWH)	18156	18284	18215	20536	20543	20491	20435	20524	20552	20524	20625	18192	20007
15. NOF (%)	100.7	93.1	99.1	95.8	97.4	98.8	99.8	98.1	98.5	87.3	88.0	91.8	82.1
16. NSC (MW)	17	17	17	12	12	12	12	12	12	17	17	17	14

FILED  
SUSPENDED  
EFFECTIVE 10/01/98  
DOCKET NO 990001-E1  
ORDER NO.

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND CT 1	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1 EAF (%)	64.9	65.0	64.9	65.0	64.9	65.0	35.6	64.9	65.0	65.0	65.0	64.9	62.5
2 POF	0.0	0.0	0.0	0.0	0.0	0.0	45.2	0.0	0.0	0.0	0.0	0.0	3.8
3 EUOF	35.1	35.0	35.1	35.0	35.1	35.0	19.2	35.1	35.0	35.0	35.0	35.1	33.7
4 EUOR	35.1	35.0	35.1	35.0	35.1	35.0	35.0	35.1	35.0	35.0	35.0	35.1	35.0
5 PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6 SH	9	6	27	6	36	57	35	58	28	9	9	5	285
7 RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8 LH	736	666	717	713	708	663	709	666	692	736	711	739	8475
9 POH	0	0	0	0	0	0	336	0	0	0	0	0	336
10 FOH & EFOH	149	134	149	144	149	144	82	149	144	149	144	149	1688
11 MOH & EMOH	112	101	112	108	112	108	61	112	108	112	108	112	1268
12 OPER BTU (GBTU)	2,835	1,797	8,120	1,482	8,704	13,729	8,438	13,952	8,800	2,208	2,228	1,482	71,783
13 NET GEN (MWH)	156	99	446	72	424	670	413	680	331	107	108	82	3588
14 ANOHR (BTU/KWH)	18173	18152	18206	20583	20528	20491	20426	20519	20544	20636	20630	18195	20006
15 NOF (%)	102.0	97.1	97.2	100.0	98.1	98.0	98.3	97.7	98.5	69.9	70.6	96.5	92.1
16 NSC (MW)	17	17	17	12	12	12	12	12	12	17	17	17	14



TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF: MONTH OF:												PERIOD			
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99				
BIG BEND CT 2																1999
1. EAF (%)	69.1	69.0	69.1	69.1	69.1	69.2	66.9	40.1	69.2	69.1	69.2	69.1	69.1	69.1	69.1	69.5
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	3.2	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
3. EUOF	30.9	31.0	30.9	30.9	30.9	30.8	29.8	18.0	30.8	30.9	30.8	30.9	30.8	30.9	30.9	29.7
4. EUOR	30.9	31.0	30.9	30.9	30.9	30.8	30.8	31.0	30.8	30.9	30.8	30.9	30.8	30.9	30.9	30.9
5. PH	744	672	744	719	744	720	744	744	720	745	720	745	720	744	744	8760
6. SH	12	9	34	10	53	78	85	43	39	15	14	15	14	9	9	401
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. LH	732	663	710	709	691	642	659	701	681	730	708	730	708	735	735	8359
9. POH	0	0	0	0	0	0	24	312	0	0	0	0	0	0	0	326
10. FOH & EFOH	115	104	115	111	115	111	111	67	111	115	111	115	111	115	115	1301
11. MOH & EMOH	115	104	115	111	115	111	111	67	111	115	111	115	111	115	115	1301
12. OPER BTU (GBTU)	13,271	9,431	37,721	8,177	44,586	66,003	72,334	37,443	32,534	11,891	11,667	11,667	11,667	8,983	8,983	354,051
13. NET GEN (MMH)	661	623	2506	504	2762	4105	4502	2340	2013	733	722	733	722	569	569	22282
14. ANOHR (BTUKVWH)	15064	15138	15040	16224	18143	16079	16067	16001	16162	16209	16187	16209	16187	15251	15251	15890
15. NOF (%)	91.8	86.5	92.2	88.4	91.4	92.3	92.9	95.5	90.6	81.1	64.5	81.1	64.5	81.8	81.8	86.1
16. NSC (MM)	80	80	80	57	57	57	57	57	57	80	80	80	80	80	80	85

FILED  
SUSPENDED  
EFFECTIVE 10/01/98  
DOCKET NO 990001-EI  
ORDER NO

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99	1999
1. EAF (%)	89.1	89.0	89.1	89.1	89.1	89.2	89.1	89.1	89.2	86.7	89.2	89.1	86.4
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.3	3.2	0.0	0.0	3.8
3. EUOF	30.9	31.0	30.9	30.9	30.9	30.8	30.9	30.9	17.5	30.1	30.8	30.9	29.7
4. EUOR	30.9	31.0	30.9	30.9	30.9	30.8	30.9	30.9	30.9	31.1	30.8	30.9	30.9
5. PH	744	872	744	719	744	720	744	744	720	745	720	744	8780
6. SH	11	7	31	8	45	89	78	71	19	11	12	7	367
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	733	665	713	711	699	651	668	673	701	734	708	737	8363
9. POH	0	0	0	0	0	0	0	0	312	24	0	0	336
10. FOH & EFOH	115	104	115	111	115	111	115	115	63	112	111	115	1302
11. MOH & EMOH	115	104	115	111	115	111	115	115	63	112	111	115	1302
12. OPER BTU (GBTU)	12,547	8,326	35,791	6,790	38,785	59,895	66,340	61,202	16,817	9,607	9,980	7,288	333,148
13. NET GEN (MMH)	810	534	2313	406	2328	3600	4004	3684	1017	575	598	464	20333
14. ANOHR (BTU/KWH)	15490	15592	15474	16724	16652	16582	16568	16613	16536	16708	16689	15707	16385
15. NOF (%)	92.0	95.4	93.3	89.0	90.8	91.5	92.4	91.0	93.9	85.3	82.3	82.9	85.6
16. NSC (MW)	80	80	80	57	57	57	57	57	57	60	60	80	65

FILED  
SUSPENDED  
EFFECTIVE 10/01/98  
DOCKET NO 990001-EI  
ORDER NO



TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD			
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PHILLIPS 2	80.0	80.1	80.0	42.8	25.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	1999
1. EAF (%)	80.0	80.1	80.0	42.8	25.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	72.3
2. POF	0.0	0.0	0.0	46.7	67.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
3. EUOF	20.0	19.9	20.0	10.7	6.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.1
4. EUOR	20.0	19.9	20.0	20.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5. PH	744	672	744	719	744	720	744	744	720	744	720	745	720	744	744	8760
6. SH	67	55	152	39	153	295	290	197	131	58	51	63	51	63	1549	1549
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	677	617	582	680	591	425	454	547	589	689	689	689	689	681	7211	7211
9. POH	0	0	0	338	504	0	0	0	0	0	0	0	0	0	0	840
10. FOH & EFOH	52	47	52	27	17	50	52	52	50	52	50	52	50	52	52	553
11. MOH & EMOH	97	87	97	50	31	94	97	97	94	97	94	97	94	97	1032	1032
12. OPER BTU (GBTU)	10,545	8,717	23,963	6,061	24,062	46,963	46,339	31,062	20,593	8,694	7,918	9,726	8,694	9,726	244,634	244,634
13. NET GEN (MWH)	1112	919	2526	639	2537	4651	4665	3275	2171	916	835	1026	916	1026	25762	25762
14. ANCHR (BTUKWH)	9483	9486	9487	9455	9484	9486	9486	9484	9486	9480	9483	9479	9480	9483	9485	9485
15. NOF (%)	97.6	96.3	97.8	96.4	97.5	96.7	99.1	97.8	97.5	96.2	96.3	95.8	96.2	96.3	97.9	97.9
16. NSC (MW)	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

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ORDER NO.

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 1999 - DECEMBER 1999

PLANT/UNIT	MONTH OF												PERIOD	
	JAN 99	FEB 99	MAR 99	APR 99	MAY 99	JUN 99	JUL 99	AUG 99	SEP 99	OCT 99	NOV 99	DEC 99		
POLK														1999
1. EAF (%)	87.9	87.9	87.9	87.8	87.9	87.8	87.9	87.9	87.8	87.8	82.3	52.6	87.9	77.3
2. POF	0.0	0.0	90.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	6.4	40.0	0.0	12.1
3. EUOF	12.1	12.1	1.1	11.3	12.1	12.2	12.1	12.1	12.2	12.2	11.3	7.4	12.1	10.7
4. EUOR	12.1	12.1	11.1	12.1	12.1	12.2	12.1	12.1	12.2	12.2	12.1	12.3	12.1	12.1
5. PH	744	672	744	719	744	720	744	744	720	745	745	720	744	8760
6. SH	657	593	64	592	657	635	657	657	635	616	616	390	657	6800
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	87	79	600	127	87	85	87	87	85	129	340	87	87	1860
9. POH	0	0	672	48	0	0	0	0	0	48	288	0	0	1058
10. FOH & EFOH	54	49	5	49	54	53	54	54	53	51	32	54	54	562
11. MOH & EMOH	36	32	3	32	36	35	36	36	35	33	21	36	36	371
12. OPER BTU (GBTU)	1607,010	1458,060	157,568	1481,860	1652,940	156,840	1654,380	1658,410	1598,360	1532,710	837,103	1615,430	16929,701	
13. NET GEN (MMH)	153,143	140,509	15,223	141,044	159,768	15,4634	159,811	160,115	154,488	148,073	90,369	155,991	163,5341	
14. ANOHR (BTU/KWH)	10358	10357	10353	10365	10346	10346	10346	10345	10346	10351	10370	10358	10352	
15. NOF (%)	94.5	94.8	95.1	95.3	97.3	97.4	97.4	97.5	97.3	96.2	95.1	95.0	96.2	
16. NSC (MM)	250	250	250	250	250	250	250	250	250	250	250	250	250	250

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