



**TAMPA ELECTRIC COMPANY**  
**BEFORE THE**  
**FLORIDA PUBLIC SERVICE COMMISSION**  
**DOCKET NO. 010001-EI**

**TESTIMONY**  
**AND EXHIBIT OF**

**GEORGE A. KESELOWSKY**

DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

1                   BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2                               PREPARED DIRECT TESTIMONY

3   OF

4   GEORGE A. KESELOWSKY

5  
6   Q.   Please state your name, business address, occupation and  
7        employer.

8  
9   A.   My name is George A. Keselowsky. My mailing address is  
10       Post Office Box 111, Tampa, Florida 33601 and my business  
11       address is 6944 U.S. Highway 41 North, Apollo Beach,  
12       Florida 33572. I am employed by Tampa Electric Company  
13       ("Tampa Electric" or "company") in the position of Senior  
14       Consulting Engineer - Energy Supply in the Plant  
15       Technical Services Department.

16  
17   Q.   Please provide a brief outline of your educational  
18        background and business experience.

19  
20   A.   I graduated in 1972 from the University of South Florida  
21        with a Bachelor of Science Degree in Mechanical  
22        Engineering. I have been employed by Tampa Electric  
23        Company in various engineering and supervisory positions  
24        since that time. I currently have responsibility for  
25        unit performance analysis and the planning, scheduling

1 and coordination of unit outages.

2  
3 Q. What is the purpose of your testimony?

4  
5 A. My testimony presents Tampa Electric's methodology for  
6 determining the various factors required to compute the  
7 Generating Performance Incentive Factor (GPIF) as ordered  
8 by the Commission.

9  
10 Q. Have you prepared any exhibits to support your testimony?

11  
12 A. Yes, Exhibit No. \_\_\_\_\_ (GAK-1), consisting of two  
13 documents, was prepared under my direction and  
14 supervision. Document No. 1, Part A entitled "Generating  
15 Performance Incentive Factor January 2002 through  
16 December 2002" is consistent with the GPIF Implementation  
17 Manual previously approved by the Commission. In  
18 addition, Document 1, Part B provides the company's  
19 estimate of Unit Performance Data for the 2002 period.  
20 Finally, Document No. 2 is a summary of the GPIF targets  
21 for the 2002 period.

22  
23 Q. Which generating units on Tampa Electric's system are  
24 included in the determination of the GPIF?

25

1 A. Six of the company's coal-fired units and one integrated  
2 gasification combined cycle unit are included. These are  
3 Gannon Station Units 5 and 6, Big Bend Station Units 1,  
4 2, 3, and 4, and Polk Power Station Unit 1.

5  
6 Q. Please describe how Tampa Electric developed the various  
7 factors associated with the GPIF.

8  
9 A. Targets were established for equivalent availability and  
10 heat rate for each unit considered for the 2002 period.  
11 A range of potential improvements and degradations was  
12 determined for each of these parameters.

13  
14 Q. How were the target values for unit availability  
15 determined?

16  
17 A. The Planned Outage Factor ("POF") and the Equivalent  
18 Unplanned Outage Factor ("EUOF") were subtracted from  
19 100% to determine the target Equivalent Availability  
20 Factor ("EAF"). The factors for each of the seven units  
21 included within the GPIF are shown on page 5 of Document  
22 No. 1, Part A.

23  
24 To give an example for the 2002 period, the projected  
25 Equivalent Unplanned Outage Factor for Big Bend Unit 1 is

1 18.9% and the Planned Outage Factor is 3.8%. Therefore,  
2 the target equivalent availability factor for Big Bend  
3 Unit 1 equals 77.3% or:

4

$$5 \quad 100\% - [(18.9\% + 3.8\%)] = 77.3\%$$

6 This is shown on page 4, column 3 of Document No. 1, Part  
7 A.

8

9 **Q.** How was the potential for unit availability improvement  
10 determined?

11

12 **A.** Maximum equivalent availability is derived by using the  
13 following formula:

$$14 \quad EAF_{MAX} = 100\% - [0.8 (EUOF_T) + 0.95 (POF_T)]$$

15

16 The factors included in the above equations are the same  
17 factors that determine the target equivalent  
18 availability. To determine the maximum incentive points,  
19 a 20% reduction in Equivalent Forced Outage Factor  
20 ("EUOF") and Equivalent Maintenance Outage Factor  
21 ("EMOF"), plus a 5% reduction in the Planned Outage  
22 Factor are necessary. Continuing with the Big Bend Unit  
23 1 example:

24

$$25 \quad EAF_{MAX} = 100\% - [0.8 (18.9\%) + 0.95 (3.8\%)] = 81.2\%$$

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This is shown on page 4, column 4 of Document No. 1, Part A.

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

A. The potential for unit availability degradation is significantly greater than the potential for unit availability improvement. This concept was discussed extensively and approved in earlier hearings before the Commission. To incorporate this biased effect into the unit availability tables, Tampa Electric uses a potential degradation range equal to twice the potential improvement. Consequently, minimum equivalent availability is calculated using the following formula:

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

Again, continuing with the Big Bend Unit 1 example,

$$EAF_{MIN} = 100\% - [1.4 (18.9\%) + 1.1 (3.8\%)] = 69.3\%$$

The equivalent availability MAX and MIN for the other six units is computed in a similar manner.

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Q. How did Tampa Electric determine the Planned Outage, Maintenance Outage, and Forced Outage Factors?

A. The company's planned outages for January 2002 through December 2002 are shown on page 21 of Document No. 1, Part A. Also, a Critical Path Method (C.P.M.) for each major planned outage, which affects GPIF, is shown on pages 22 and 23 of Document No. 1, Part A. Planned Outage Factors are calculated for each unit. For example, Big Bend Unit 1 is scheduled for a planned outage February 16 through March 01, 2002. There are 336 planned outage hours scheduled for the 2002 period, and a total of 8,760 hours during this 12-month period. Consequently, the Planned Outage Factor for Unit 1 at Big Bend is 3.8% or:

$$\frac{336}{8,760} \times 100\% = 3.8\%$$

The factor for each unit is shown on pages 5 and 14 of Document No. 1, Part A. Big Bend Unit 2 has a Planned Outage Factor of 19.2%. Big Bend Unit 3 has a Planned Outage Factor of 15.3%. Big Bend 4 has a Planned Outage Factor of 5.8%. Gannon Unit 5 has a Planned Outage

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Factor of 15.3%. Gannon Unit 6 has a Planned Outage Factor of 18.1%. Polk Unit 1 has a Planned Outage Factor of 7.7%.

**Q.** How did you determine the Forced Outage and Maintenance Outage Factors for each unit?

**A.** Graphs for both factors (adjusted for planned outages) versus time were prepared. Monthly data and 12-month rolling average data were recorded. For each unit the most current 12-month ending value, June 2001, was used as a basis for the projection. This value was adjusted by analyzing trends and causes for recent forced and maintenance outages. All projected factors are based upon historical unit performance, engineering judgment, time since last planned outage, and equipment performance resulting in a forced or maintenance outage. These target factors are additive and result in an Equivalent Unplanned Outage Factor of 18.9% for Big Bend Unit 1. The Equivalent Unplanned Outage Factor for Big Bend Unit 1 is verified by the data shown on page 14, lines 3, 5, 10 and 11 of Document No. 1, Part A and calculated using the following formula:



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

Or

$$\text{EUOF} = \frac{(733 + 927)}{8,760} \times 100 = 18.9\%$$

Relative to Big Bend Unit 1, the EUOF of 18.9% forms the basis of the equivalent availability target development as shown on pages 4 and 5 of Document No. 1, Part A.

Big Bend Unit 1

The projected Equivalent Unplanned Outage Factor for this unit is 18.9%. This unit will have a planned outage in 2002 and the Planned Outage Factor is 3.8%. Therefore, the target equivalent availability for this unit is 77.3%.

Big Bend Unit 2

The projected Equivalent Unplanned Outage Factor for this unit is 14.1%. This unit will have a planned outage in 2002 and the Planned Outage Factor is 19.2%. Therefore, the target equivalent availability for this unit is 66.7%.

1 63.9%.

2

3

Polk Unit 1

4

The projected Equivalent Unplanned Outage Factor for this unit is 14.3%. This unit will have a planned outage in 2002 and the Planned Outage Factor is 7.7%. Therefore, the target equivalent availability for this unit is 78.0%.

8

9

10 Q. Please summarize your testimony regarding Equivalent  
11 Availability Factor.

12

13 A. The GPIF system weighted Equivalent Availability Factor of  
14 68.5% is shown on Page 5 of Document No. 1, Part A. This  
15 target compares favorably to the June 2000 - July 2001  
16 GPIF period.

17

18 Q. When graphing and monitoring Forced and Maintenance  
19 Outage Factors, why are they adjusted for planned outage  
20 hours?

21

22 A. The adjustment makes the factors more accurate and  
23 comparable. Obviously, a unit in a planned outage stage  
24 or reserve shutdown stage will not incur a forced or  
25 maintenance outage. Since the units in the GPIF are

1 usually base loaded, reserve shutdown is generally not a  
2 factor.

3  
4 To demonstrate the effects of a planned outage, note the  
5 Equivalent Unplanned Outage Rate and Equivalent Unplanned  
6 Outage Factor for Big Bend Unit 1 on page 14 of Document  
7 No. 1, Part A. During the months of January and April  
8 through December, the Equivalent Unplanned Outage Rate  
9 and the Equivalent Unplanned Outage Factor are equal.  
10 This is due to the fact that no planned outages are  
11 scheduled during these months. During the months of  
12 February and March, Equivalent Unplanned Outage Rate  
13 exceeds Equivalent Unplanned Outage Factor due to the  
14 scheduling of a planned outage. Therefore, the adjusted  
15 factors apply to the period hours after the planned  
16 outage hours have been extracted.

17  
18 **Q.** Does this mean that both rate and factor data are used in  
19 calculated data?

20  
21 **A.** Yes. Rates provide a proper and accurate method of  
22 determining the unit parameters, which are subsequently  
23 converted to factors. Therefore,

24  
25 
$$\text{FOF} + \text{MOF} + \text{POF} + \text{EAF} = 100\%$$

1           Since factors are additive, they are easier to work with  
2           and to understand.

3

4   **Q.**   Has Tampa Electric prepared the necessary heat rate data  
5           required for the determination of the GPIF?

6

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

9

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

11

12 **A.**   Net heat rate data for the three most recent July through  
13           June annual periods, along with the PROMOD IV program,  
14           formed the basis of the target development.   Projections  
15           of unit performance were made with the aid of PROMOD IV.  
16           The historical data and the target values are analyzed to  
17           assure applicability to current conditions of operation.  
18           This provides assurance that any periods of abnormal  
19           operations or equipment modifications having material  
20           effect on heat rate can be taken into consideration.

21

22 **Q.**   The accomplishment of scrubbing the flue gas from Big  
23           Bend Units 1 and 2 requires an additional amount of  
24           station service power.   How do you plan to address the  
25           associated effect to net heat rate for GPIF purposes?

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**A.** The change in heat rate for these units resulting from utilization of the new scrubber can be quantified, but the operational history is short of GPIF guidelines. Therefore, targets for Big Bend Units 1 and 2 have been developed in the standard fashion using data without scrubber power. In order to assure compatibility with the targets, scrubber power will be removed prior to calculating Units 1 and 2 heat rates for the subsequent true-up process. This method was approved by the Commission for Big Bend Unit 3 when it began scrubbing operation. The company will utilize the aforementioned method until there is sufficient history to meet target preparation guidelines.

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

**A.** Yes.

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

**A.** The ranges were determined through analysis of historical net heat rate and net output factor data. This is the

1 same data from which the net heat rate versus net output  
2 factor curves have been developed for each unit. This  
3 information is shown on pages 31 through 37 of Document  
4 No. 1, Part A.  
5

6 **Q.** Please elaborate on the analysis used in the  
7 determination of the ranges.  
8

9 **A.** The net heat rate versus net output factor curves are the  
10 result of a first order curve fit to historical data.  
11 The standard error of the estimate of this data was  
12 determined, and a factor was applied to produce a band of  
13 potential improvement and degradation. Both the curve  
14 fit and the standard error of the estimate were performed  
15 by computer program for each unit. These curves are also  
16 used in post period adjustments to actual heat rates to  
17 account for unanticipated changes in unit dispatch.  
18

19 **Q.** Please summarize your heat rate projection (Btu/Net kWh)  
20 and the range about each target to allow for potential  
21 improvement or degradation for the 2002 period.  
22

23 **A.** The heat rate target for Big Bend Unit 1 is 10,231  
24 Btu/Net kWh. The range about this value, to allow for  
25 potential improvement or degradation, is  $\pm 634$  Btu/Net kWh.

1 The heat rate target for Big Bend Unit 2 is 9,928 Btu/Net  
2 kWh with a range of  $\pm 415$  Btu/Net kWh. The heat rate  
3 target for Big Bend Unit 3 is 10,036 Btu/Net kWh, with a  
4 range of  $\pm 628$  Btu/Net kWh. The heat rate target for Big  
5 Bend Unit 4 is 10,089 Btu/Net kWh with a range of  $\pm 379$   
6 Btu/Net kWh. The heat rate target for Gannon Unit 5 is  
7 10,716 Btu/Net kWh with a range of  $\pm 692$  Btu/Net kWh. The  
8 heat rate target for Gannon Unit 6 is 10,704 Btu/Net kWh  
9 with a range of  $\pm 605$  Btu/Net kWh. The heat rate target  
10 for Polk Unit 1 is 10,087 Btu/Net kWh with a range of  $\pm 840$   
11 Btu/Net kWh. A zone of tolerance of  $\pm 75$  Btu/Net kWh is  
12 included within the range for each target. This is shown  
13 on page 4, and pages 7 through 13 of Document No. 1, Part  
14 A.

15  
16 **Q.** Do the heat rate targets and ranges in Tampa Electric's  
17 projection meet the criteria of the GPIF and the  
18 philosophy of the Commission?

19  
20 **A.** Yes.

21  
22 **Q.** After determining the target values and ranges for  
23 average net operating heat rate and equivalent  
24 availability, what is the next step in the GPIF?

25

1 A. The next step is to calculate the savings and weighting  
2 factor to be used for both average net operating heat  
3 rate and equivalent availability. This is shown on pages  
4 7 through 13. The PROMOD IV cost simulation model was  
5 used to calculate the total system fuel cost if all units  
6 operated at target heat rate and target availability for  
7 the period. This total system fuel cost of \$543,574,800  
8 is shown on page 6, column 2.

9  
10 The PROMOD IV output was then used to calculate total  
11 system fuel cost with each unit individually operating at  
12 maximum improvement in equivalent availability and each  
13 station operating at maximum improvement in average net  
14 operating heat rate. The respective savings are shown on  
15 page 6, column 4 of Document No. 1, Part A.

16  
17 After all of the individual savings are calculated column  
18 4 totals \$27,494,500, which reflects the savings if all  
19 of the units operated at maximum improvement. A  
20 weighting factor for each parameter is then calculated by  
21 dividing individual savings by the total. For Big Bend  
22 Unit 1, the weighting factor for equivalent availability  
23 is 5.32% as shown in the right-hand column on page 6.  
24 Pages 7 through 13 of Document No. 1, Part A show the  
25 point table, the Fuel Savings/(Loss) and the equivalent



1           availability or heat rate value.       The individual  
2           weighting factor is also shown. For example, on Big Bend  
3           Unit 1, page 7, if the unit operates at 81.2% equivalent  
4           availability, fuel savings would equal \$1,461,700 and ten  
5           equivalent availability points would be awarded.

6  
7           The GPIF Reward/Penalty Table on page 2 is a summary of  
8           the tables on pages 7 through 13. The left-hand column  
9           of this document shows the incentive points for Tampa  
10          Electric. The center column shows the total fuel savings  
11          and is the same amount as shown on page 6, column 4,  
12          \$27,494,500. The right hand column of page 2 is the  
13          estimated reward or penalty based upon performance.

14  
15       **Q.**   How were the maximum allowed incentive dollars  
16          determined?

17  
18       **A.**   Referring to page 3, line 14, the estimated average  
19          common equity for the period January 2002 through  
20          December 2002 is \$1,452,018,692. This produces the  
21          maximum allowed jurisdictional incentive dollars of  
22          \$5,691,728 shown on line 21.

23  
24       **Q.**   Are there any other constraints set forth by the  
25          Commission regarding the magnitude of incentive dollars?

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A. Yes. Incentive dollars are not to exceed 50 percent of fuel savings. Page 2 of Document No. 1, Part A demonstrates that this constraint is met.

Q. Please summarize your testimony on the GPIF?

A. Tampa Electric has fully complied with the Commission's directions, philosophy, and methodology in our determination of GPIF. The GPIF is determined by the following formula for calculating Generating Performance Incentive Points (GPIP):

$$\begin{aligned} \text{GPIP:} = & ( 0.0532 \text{ EAP}_{\text{BB1}} + 0.0617 \text{ EAP}_{\text{BB2}} \\ & + 0.0582 \text{ EAP}_{\text{BB3}} + 0.0303 \text{ EAP}_{\text{BB4}} \\ & + 0.0619 \text{ EAP}_{\text{GN5}} + 0.1046 \text{ EAP}_{\text{GN6}} \\ & + 0.0498 \text{ EAP}_{\text{PK1}} + 0.1135 \text{ HRP}_{\text{BB1}} \\ & + 0.0697 \text{ HRP}_{\text{BB2}} + 0.0996 \text{ HRP}_{\text{BB3}} \\ & + 0.0748 \text{ HRP}_{\text{BB4}} + 0.0428 \text{ HRP}_{\text{GN5}} \\ & + 0.0687 \text{ HRP}_{\text{GN6}} + 0.1112 \text{ HRP}_{\text{PK1}} ) \end{aligned}$$

Where:

GPIP = Generating Performance Incentive Points.  
EAP = Equivalent Availability Points awarded/deducted for Big Bend Units 1, 2, 3 and 4, Gannon Units 5 and 6, and Polk Unit 1.

1 HRP = Average Net Heat Rate Points awarded/deducted for  
2 Big Bend Units 1, 2, 3 and 4, Gannon Units 5 and 6,  
3 and Polk Unit 1.  
4

5 Q. Have you prepared a document summarizing the GPIF targets  
6 for the January 2002 - December 2002 period?  
7

8 A. Yes. Document No. 2 entitled "Tampa Electric Company,  
9 Summary of GPIF Targets, January 2002 - December 2002"  
10 provides the availability and heat rate targets for each  
11 unit.  
12

13 Q. Does this conclude your testimony?  
14

15 A. Yes.  
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EXHIBIT NO. \_\_\_\_\_  
DOCKET NO. 010001-EI  
TAMPA ELECTRIC COMPANY  
(GAK-1)  
FILED: SEPTEMBER 20, 2001

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### GENERATING PERFORMANCE INCENTIVE FACTOR

JANUARY 2002 - DECEMBER 2002

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EXHIBITS TO THE TESTIMONY OF  
GEORGE A. KESELOWSKY

DOCKET NO. 010001-EI

GENERATING PERFORMANCE INCENTIVE FACTOR  
JANUARY 2002 - DECEMBER 2002

DOCUMENT NO. 1

PART A - GPIF SCHEDULES

**TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
JANUARY 2002 - DECEMBER 2002  
TARGETS  
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**TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
REWARD / PENALTY TABLE - ESTIMATED  
JANUARY 2002 - DECEMBER 2002**

<b>GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)</b>	<b>FUEL SAVINGS / (LOSS) (\$000)</b>	<b>GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)</b>
+10	27,494.5	5,691.7
+9	24,745.1	5,122.6
+8	21,995.6	4,553.4
+7	19,246.2	3,984.2
+6	16,496.7	3,415.0
+5	13,747.3	2,845.9
+4	10,997.8	2,276.7
+3	8,248.4	1,707.5
+2	5,498.9	1,138.3
+1	2,749.5	569.2
0	0.0	0.0
-1	(3,951.9)	(569.2)
-2	(7,903.7)	(1,138.3)
-3	(11,855.6)	(1,707.5)
-4	(15,807.4)	(2,276.7)
-5	(19,759.3)	(2,845.9)
-6	(23,711.1)	(3,415.0)
-7	(27,663.0)	(3,984.2)
-8	(31,614.8)	(4,553.4)
-9	(35,566.7)	(5,122.6)
-10	(39,518.5)	(5,691.7)

**TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS  
(ESTIMATED)  
JANUARY 2002 - DECEMBER 2002**

Line 1	Beginning of period balance of common equity:		\$ 1,417,501,000
	End of month common equity:		
Line 2	Month of January	2002	\$ 1,407,610,000
Line 3	Month of February	2002	\$ 1,421,392,000
Line 4	Month of March	2002	\$ 1,435,310,000
Line 5	Month of April	2002	\$ 1,431,555,000
Line 6	Month of May	2002	\$ 1,445,572,000
Line 7	Month of June	2002	\$ 1,459,727,000
Line 8	Month of July	2002	\$ 1,449,603,000
Line 9	Month of August	2002	\$ 1,463,797,000
Line 10	Month of September	2002	\$ 1,478,130,000
Line 11	Month of October	2002	\$ 1,474,200,000
Line 12	Month of November	2002	\$ 1,488,635,000
Line 13	Month of December	2002	\$ 1,503,211,000
Line 14	(Summation of line 1 through line 13 divided by 13)		\$ 1,452,018,692
Line 15	25 Basis points		0.0025
Line 16	Revenue Expansion Factor		61.38%
Line 17	Maximum Allowed Incentive Dollars (line 14 times line 15 divided by line 16)		\$ 5,913,978
Line 18	Jurisdictional Sales		17,751,526 MWH
Line 19	Total Sales		18,444,683 MWH
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)		96.24%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 times line 20)		\$ 5,691,728



TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2002 - DECEMBER 2002

EQUIVALENT AVAILABILITY

<u>PLANT / UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>EAFF TARGET (%)</u>	<u>EAFF RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
			<u>MAX. (%)</u>	<u>MIN. (%)</u>		
BIG BEND 1	5.32%	77.3	81.2	69.3	1,461.7	(3,173.6)
BIG BEND 2	6.17%	66.7	70.4	59.1	1,697.2	(3,261.5)
BIG BEND 3	5.82%	67.5	71.7	59.1	1,600.4	(3,650.6)
BIG BEND 4	3.03%	82.6	85.2	77.4	833.3	(1,684.1)
GANNON 5	6.19%	56.7	63.1	44.0	1,702.3	(3,830.7)
GANNON 6	10.46%	63.9	68.4	54.9	2,875.0	(6,015.5)
POLK 1	4.98%	78.0	81.3	71.5	1,370.4	(1,948.3)
<b>GPIF SYSTEM</b>	<b>41.97%</b>					

AVERAGE NET OPERATING HEAT RATE

<u>PLANT / UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>ANOHR Btu/kwh</u>	<u>TARGET NOF</u>	<u>ANOHR RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
				<u>MIN.</u>	<u>MAX.</u>		
BIG BEND 1	11.35%	10231	82.2	9597	10865	3,120.1	(3,120.1)
BIG BEND 2	6.97%	9928	86.3	9513	10343	1,916.1	(1,916.1)
BIG BEND 3	9.96%	10036	78.3	9408	10664	2,737.5	(2,737.5)
BIG BEND 4	7.48%	10089	82.7	9710	10468	2,055.3	(2,055.3)
GANNON 5	4.28%	10716	71.5	10024	11408	1,177.3	(1,177.3)
GANNON 6	6.87%	10704	78.4	10099	11309	1,889.6	(1,889.6)
POLK 1	11.12%	10087	98.2	9247	10927	3,058.3	(3,058.3)
<b>GPIF SYSTEM</b>	<b>58.03%</b>					<b>15,954.2</b>	<b>(15,954.2)</b>

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

EQUIVALENT AVAILABILITY (%)

PLANT / UNIT	WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD JAN 02 - DEC 02			TARGET PERIOD JUL 00 - JUN 01			TARGET PERIOD JUL 99 - JUN 00			TARGET PERIOD JUL 98 - JUN 99		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
BIG BEND 1	5.32%	12.7%	3.8	18.9	19.7	6.8	19.6	21.0	5.7	16.0	17.0	14.3	23.7	27.7
BIG BEND 2	6.17%	14.7%	19.2	14.1	17.5	0.0	17.7	17.7	5.6	10.4	11.0	6.1	18.5	19.7
BIG BEND 3	5.82%	13.9%	15.3	17.2	20.3	16.1	20.8	24.8	11.2	18.0	20.3	0.0	16.7	16.7
BIG BEND 4	3.03%	7.2%	5.8	11.6	12.3	6.4	14.2	15.2	10.9	9.5	10.7	8.5	12.6	13.8
GANNON 5	6.19%	14.8%	15.3	27.9	33.0	6.6	25.0	26.8	6.3	26.5	28.3	12.2	39.1	44.5
GANNON 6	10.46%	24.9%	18.1	18.0	22.0	23.2	24.7	32.2	9.1	30.0	33.0	8.3	23.3	25.4
POLK 1	4.98%	11.9%	7.7	14.3	15.5	5.7	37.5	39.8	4.9	13.3	14.0	4.3	8.7	9.1
GPIF SYSTEM	41.97%	100.0%	13.5	18.0	21.0	11.0	23.3	26.5	7.7	19.7	21.4	7.7	21.6	23.7
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY (%)			<u>68.5</u>			<u>65.7</u>			<u>72.6</u>			<u>70.7</u>		
			3 PERIOD AVERAGE			3 PERIOD AVERAGE								
			POF	EUOF	EUOR	EAF								
			8.8	21.5	23.9	69.7								

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT / UNIT	WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET HEAT RATE	ADJUSTED PRIOR HEAT RATE	ADJUSTED PRIOR HEAT RATE	ADJUSTED PRIOR HEAT RATE
			JAN 02 - DEC 02	JUL 00 - JUN 01	JUL 99 - JUN 00	JUL 98 - JUN 99
BIG BEND 1	11.35%	19.6%	10,231	10,215	10,027	10,332
BIG BEND 2	6.97%	12.0%	9,928	10,003	9,791	9,964
BIG BEND 3	9.96%	17.2%	10,036	10,192	9,848	9,980
BIG BEND 4	7.48%	12.9%	10,089	10,100	9,972	10,133
GANNON 5	4.28%	7.4%	10,716	10,362	11,205	10,699
GANNON 6	6.87%	11.8%	10,704	10,693	10,999	10,434
POLK 1	11.12%	19.2%	10,087	9,673	10,222	10,144
GPIF SYSTEM	58.03%	100.0%				
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			<u>10,207</u>	<u>10,134</u>	<u>10,200</u>	<u>10,205</u>

**TAMPA ELECTRIC COMPANY  
DERIVATION OF WEIGHTING FACTORS  
JANUARY 2002 - DECEMBER 2002  
PRODUCTION COSTING SIMULATION  
FUEL COST (\$000)**

<b>UNIT PERFORMANCE INDICATOR</b>	<b>AT TARGET (1)</b>	<b>AT MAXIMUM IMPROVEMENT (2)</b>	<b>SAVINGS (3)</b>	<b>WEIGHTING FACTOR (% OF SAVINGS)</b>
<b>EQUIVALENT AVAILABILIT</b>				
EA <sub>1</sub> BIG BEND 1	543574.8	542113.1	1461.7	5.32%
EA <sub>2</sub> BIG BEND 2	543574.8	541877.6	1697.2	6.17%
EA <sub>3</sub> BIG BEND 3	543574.8	541974.4	1600.4	5.82%
EA <sub>4</sub> BIG BEND 4	543574.8	542741.5	833.3	3.03%
EA <sub>5</sub> GANNON 5	543574.8	541872.5	1702.3	6.19%
EA <sub>6</sub> GANNON 6	543574.8	540699.8	2875	10.46%
EA <sub>7</sub> POLK 1	543574.8	542204.4	1370.4	4.98%
<b>AVERAGE HEAT RATE</b>				
AHR <sub>1</sub> BIG BEND 1	543574.8	540454.7	3120.1	11.35%
AHR <sub>2</sub> BIG BEND 2	543574.8	541658.7	1916.1	6.97%
AHR <sub>3</sub> BIG BEND 3	543574.8	540837.3	2737.5	9.96%
AHR <sub>4</sub> BIG BEND 4	543574.8	541519.5	2055.3	7.48%
AHR <sub>5</sub> GANNON 5	543574.8	542397.5	1177.3	4.28%
AHR <sub>6</sub> GANNON 6	543574.8	541685.2	1889.6	6.87%
AHR <sub>7</sub> POLK 1	543574.8	540516.5	3058.3	11.12%
<b>TOTAL SAVINGS</b>			<b>27,494.5</b>	<b>100.00%</b>

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

(2) All other units performance indicators at target.

(3) Expressed in replacement energy cost.

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY

JANUARY 2002 - DECEMBER 2002

BIG BEND 1

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	1,461.7	81.2	+10	3,120.1	9,597
+9	1,315.5	80.8	+9	2,808.1	9,653
+8	1,169.4	80.4	+8	2,496.1	9,709
+7	1,023.2	80.0	+7	2,184.1	9,765
+6	877.0	79.6	+6	1,872.1	9,821
+5	730.9	79.3	+5	1,560.1	9,877
+4	584.7	78.9	+4	1,248.0	9,932
+3	438.5	78.5	+3	936.0	9,988
+2	292.3	78.1	+2	624.0	10,044
+1	146.2	77.7	+1	312.0	10,100
					10,156
0	0.0	77.3	0	0.0	10,231
					10,306
-1	(317.4)	76.5	-1	(312.0)	10,362
-2	(634.7)	75.7	-2	(624.0)	10,418
-3	(952.1)	74.9	-3	(936.0)	10,474
-4	(1,269.4)	74.1	-4	(1,248.0)	10,530
-5	(1,586.8)	73.3	-5	(1,560.1)	10,586
-6	(1,904.2)	72.5	-6	(1,872.1)	10,641
-7	(2,221.5)	71.7	-7	(2,184.1)	10,697
-8	(2,538.9)	70.9	-8	(2,496.1)	10,753
-9	(2,856.2)	70.1	-9	(2,808.1)	10,809
-10	(3,173.6)	69.3	-10	(3,120.1)	10,865
	Weighting Factor =	5.32%		Weighting Factor =	11.35%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2002 - DECEMBER 2002

BIG BEND 2

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	1,697.2	70.4	+10	1,916.1	9,513
+9	1,527.5	70.0	+9	1,724.5	9,547
+8	1,357.8	69.7	+8	1,532.9	9,581
+7	1,188.0	69.3	+7	1,341.3	9,615
+6	1,018.3	68.9	+6	1,149.7	9,649
+5	848.6	68.6	+5	958.1	9,683
+4	678.9	68.2	+4	766.4	9,717
+3	509.2	67.8	+3	574.8	9,751
+2	339.4	67.4	+2	383.2	9,785
+1	169.7	67.1	+1	191.6	9,819
					9,853
0	0.0	66.7	0	0.0	9,928
					10,003
-1	(326.2)	65.9	-1	(191.6)	10,037
-2	(652.3)	65.2	-2	(383.2)	10,071
-3	(978.5)	64.4	-3	(574.8)	10,105
-4	(1,304.6)	63.7	-4	(766.4)	10,139
-5	(1,630.8)	62.9	-5	(958.1)	10,173
-6	(1,956.9)	62.1	-6	(1,149.7)	10,207
-7	(2,283.1)	61.4	-7	(1,341.3)	10,241
-8	(2,609.2)	60.6	-8	(1,532.9)	10,275
-9	(2,935.4)	59.9	-9	(1,724.5)	10,309
-10	(3,261.5)	59.1	-10	(1,916.1)	10,343
	Weighting Factor =	6.17%		Weighting Factor =	6.97%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY

JANUARY 2002 - DECEMBER 2002

BIG BEND 3

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	1,600.4	71.7	+10	2,737.5	9,408
+9	1,440.4	71.3	+9	2,463.8	9,463
+8	1,280.3	70.9	+8	2,190.0	9,519
+7	1,120.3	70.4	+7	1,916.3	9,574
+6	960.2	70.0	+6	1,642.5	9,629
+5	800.2	69.6	+5	1,368.8	9,685
+4	640.2	69.2	+4	1,095.0	9,740
+3	480.1	68.8	+3	821.3	9,795
+2	320.1	68.3	+2	547.5	9,850
+1	160.0	67.9	+1	273.8	9,906
					9,961
0	0.0	67.5	0	0.0	10,036
					10,111
-1	(365.1)	66.7	-1	(273.8)	10,166
-2	(730.1)	65.8	-2	(547.5)	10,222
-3	(1,095.2)	65.0	-3	(821.3)	10,277
-4	(1,460.2)	64.1	-4	(1,095.0)	10,332
-5	(1,825.3)	63.3	-5	(1,368.8)	10,388
-6	(2,190.4)	62.5	-6	(1,642.5)	10,443
-7	(2,555.4)	61.6	-7	(1,916.3)	10,498
-8	(2,920.5)	60.8	-8	(2,190.0)	10,553
-9	(3,285.5)	59.9	-9	(2,463.8)	10,609
-10	(3,650.6)	59.1	-10	(2,737.5)	10,664

Weighting Factor =

5.82%

Weighting Factor =

9.96%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY

JANUARY 2002 - DECEMBER 2002

BIG BEND 4

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	833.3	85.2	+10	2,055.3	9,710
+9	750.0	84.9	+9	1,849.8	9,740
+8	666.6	84.7	+8	1,644.2	9,771
+7	583.3	84.4	+7	1,438.7	9,801
+6	500.0	84.2	+6	1,233.2	9,832
+5	416.7	83.9	+5	1,027.7	9,862
+4	333.3	83.6	+4	822.1	9,892
+3	250.0	83.4	+3	616.6	9,923
+2	166.7	83.1	+2	411.1	9,953
+1	83.3	82.9	+1	205.5	9,984
					10,014
0	0.0	82.6	0	0.0	10,089
					10,164
-1	(168.4)	82.1	-1	(205.5)	10,194
-2	(336.8)	81.6	-2	(411.1)	10,225
-3	(505.2)	81.0	-3	(616.6)	10,255
-4	(673.6)	80.5	-4	(822.1)	10,286
-5	(842.1)	80.0	-5	(1,027.7)	10,316
-6	(1,010.5)	79.5	-6	(1,233.2)	10,346
-7	(1,178.9)	79.0	-7	(1,438.7)	10,377
-8	(1,347.3)	78.4	-8	(1,644.2)	10,407
-9	(1,515.7)	77.9	-9	(1,849.8)	10,438
-10	(1,684.1)	77.4	-10	(2,055.3)	10,468
	Weighting Factor =	3.03%		Weighting Factor =	7.48%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY

JANUARY 2002 - DECEMBER 2002

GANNON 5

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	1,702.3	63.1	+10	1,177.3	10,024
+9	1,532.1	62.5	+9	1,059.6	10,086
+8	1,361.8	61.8	+8	941.8	10,147
+7	1,191.6	61.2	+7	824.1	10,209
+6	1,021.4	60.5	+6	706.4	10,271
+5	851.2	59.9	+5	588.7	10,333
+4	680.9	59.3	+4	470.9	10,394
+3	510.7	58.6	+3	353.2	10,456
+2	340.5	58.0	+2	235.5	10,518
+1	170.2	57.3	+1	117.7	10,579
					10,641
0	0.0	56.7	0	0.0	10,716
					10,791
-1	(383.1)	55.4	-1	(117.7)	10,853
-2	(766.1)	54.2	-2	(235.5)	10,914
-3	(1,149.2)	52.9	-3	(353.2)	10,976
-4	(1,532.3)	51.6	-4	(470.9)	11,038
-5	(1,915.4)	50.4	-5	(588.7)	11,100
-6	(2,298.4)	49.1	-6	(706.4)	11,161
-7	(2,681.5)	47.8	-7	(824.1)	11,223
-8	(3,064.6)	46.5	-8	(941.8)	11,285
-9	(3,447.6)	45.3	-9	(1,059.6)	11,346
-10	(3,830.7)	44.0	-10	(1,177.3)	11,408

Weighting Factor =

6.19%

Weighting Factor =

4.28%



**TAMPA ELECTRIC COMPANY**  
**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2002 - DECEMBER 2002**

**GANNON 6**

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	2,875.0	68.4	+10	1,889.6	10,099
+9	2,587.5	68.0	+9	1,700.6	10,152
+8	2,300.0	67.5	+8	1,511.7	10,205
+7	2,012.5	67.1	+7	1,322.7	10,258
+6	1,725.0	66.6	+6	1,133.8	10,311
+5	1,437.5	66.2	+5	944.8	10,364
+4	1,150.0	65.7	+4	755.8	10,417
+3	862.5	65.3	+3	566.9	10,470
+2	575.0	64.8	+2	377.9	10,523
+1	287.5	64.4	+1	189.0	10,576
					10,629
0	0.0	63.9	0	0.0	10,704
					10,779
-1	(601.6)	63.0	-1	(189.0)	10,832
-2	(1,203.1)	62.1	-2	(377.9)	10,885
-3	(1,804.7)	61.2	-3	(566.9)	10,938
-4	(2,406.2)	60.3	-4	(755.8)	10,991
-5	(3,007.8)	59.4	-5	(944.8)	11,044
-6	(3,609.3)	58.5	-6	(1,133.8)	11,097
-7	(4,210.9)	57.6	-7	(1,322.7)	11,150
-8	(4,812.4)	56.7	-8	(1,511.7)	11,203
-9	(5,414.0)	55.8	-9	(1,700.6)	11,256
-10	(6,015.5)	54.9	-10	(1,889.6)	11,309

Weighting Factor = 10.46%

Weighting Factor = 6.87%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2002 - DECEMBER 2002

POLK 1

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	1,370.4	81.3	+10	3,058.3	9,247
+9	1,233.4	81.0	+9	2,752.5	9,324
+8	1,096.3	80.6	+8	2,446.6	9,400
+7	959.3	80.3	+7	2,140.8	9,477
+6	822.2	80.0	+6	1,835.0	9,553
+5	685.2	79.7	+5	1,529.2	9,630
+4	548.2	79.3	+4	1,223.3	9,706
+3	411.1	79.0	+3	917.5	9,783
+2	274.1	78.7	+2	611.7	9,859
+1	137.0	78.3	+1	305.8	9,936
					10,012
0	0.0	78.0	0	0.0	10,087
					10,162
-1	(194.8)	77.4	-1	(305.8)	10,239
-2	(389.7)	76.7	-2	(611.7)	10,315
-3	(584.5)	76.1	-3	(917.5)	10,392
-4	(779.3)	75.4	-4	(1,223.3)	10,468
-5	(974.2)	74.8	-5	(1,529.2)	10,545
-6	(1,169.0)	74.1	-6	(1,835.0)	10,621
-7	(1,363.8)	73.5	-7	(2,140.8)	10,698
-8	(1,558.6)	72.8	-8	(2,446.6)	10,774
-9	(1,753.5)	72.2	-9	(2,752.5)	10,851
-10	(1,948.3)	71.5	-10	(3,058.3)	10,927

Weighting Factor =

4.98%

Weighting Factor =

11.12%

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 GPIF (w/o FGD)	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	80.2	43.0	77.7	80.3	80.2	80.3	80.2	80.2	80.3	80.3	80.3	80.2	77.2
2. POF	0.0	46.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
3. EUOF	19.8	10.6	19.1	19.7	19.8	19.7	19.8	19.8	19.7	19.7	19.7	19.8	18.9
4. EUOR	19.8	19.7	19.7	19.7	19.8	19.7	19.8	19.8	19.7	19.7	19.7	19.8	19.7
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	653	315	614	623	653	626	645	644	632	653	632	644	7334
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	91	357	130	96	91	94	99	100	88	92	88	100	1426
9. POH	0	312	24	0	0	0	0	0	0	0	0	0	336
10. FOH & EFOH	65	31	63	63	65	63	65	65	63	65	63	65	733
11. MOH & EMOH	82	40	79	79	82	79	82	82	79	82	79	82	927
12. OPER BTU (GBTU)	2247.219	1130.360	2178.964	2194.265	2314.086	2279.461	2374.314	2377.161	2319.196	2326.067	2248.507	2280.235	26269.834
13. NET GEN (MWH)	221,662	112,706	213,598	215,347	225,383	221,687	228,992	229,262	225,551	228,179	220,551	224,843	2,567,761
14. ANOHR (Btu/kwh)	10,138	10,029	10,201	10,189	10,267	10,282	10,369	10,369	10,282	10,194	10,195	10,141	10,231
15. NOF (%)	78.8	82.9	80.7	82.1	82.0	84.1	84.4	84.5	84.8	81.1	81.0	80.9	82.2
16. NPC (MW)	431	431	431	421	421	421	421	421	421	431	431	431	426
17. ANOHR EQUATION	ANOHR = NOF( -12.328 ) + 11244												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 2 GPIF (w/o FGD)	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	82.5	82.6	82.5	82.5	82.5	82.5	82.5	82.5	55.0	0.0	2.8	82.5	66.7
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	100.0	96.7	0.0	19.2
3. EUOF	17.5	17.4	17.5	17.5	17.5	17.5	17.5	17.5	11.7	0.0	0.6	17.5	14.1
4. EUOR	17.5	17.4	17.5	17.5	17.5	17.5	17.5	17.5	17.5	0.0	16.7	17.5	17.5
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	682	616	682	660	682	660	682	682	440	0	22	682	6487
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	62	56	62	59	62	60	62	62	280	745	698	62	2273
9. POH	0	0	0	0	0	0	0	0	240	745	696	0	1681
10. FOH & EFOH	65	59	65	63	65	63	65	65	42	0	2	65	623
11. MOH & EMOH	65	58	65	63	65	63	65	65	42	0	2	65	616
12. OPER BTU (GBTU)	2479.092	2303.430	2428.639	2338.565	2484.258	2427.190	2520.372	2520.602	1630.721	0.000	81.454	2465.992	23680.315
13. NET GEN (MWH)	249,309	231,892	244,833	236,160	250,131	243,584	251,693	251,705	164,560	0	10,606	248,139	2,385,112
14. ANOHR (Btu/kwh)	9,944	9,933	9,920	9,902	9,932	9,964	10,014	10,014	9,910	0	7,680	9,938	9,928
15. NOF (%)	84.9	87.4	83.3	85.0	87.2	87.7	87.7	87.7	88.8	0.0	112.7	84.5	86.3
16. NPC (MW)	431	431	431	421	421	421	421	421	421	431	431	431	426
17. ANOHR EQUATION	ANOHR = NOF( -12.51 ) + 11008												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	79.7	79.8	2.6	10.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	67.5
2. POF	0.0	0.0	96.8	86.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
3. EUOF	20.3	20.2	0.7	2.8	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	17.2
4. EUOR	20.3	20.2	20.8	21.1	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	562	592	22	79	658	628	649	649	636	644	622	643	6383
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	182	80	722	640	86	92	95	95	84	101	98	101	2377
9. POH	0	0	720	624	0	0	0	0	0	0	0	0	1344
10. FOH & EFOH	60	54	2	8	60	58	60	60	58	60	58	60	601
11. MOH & EMOH	91	82	3	12	91	88	91	91	88	91	88	91	905
12. OPER BTU (GBTU)	1752.441	2010.356	79.059	218.753	2090.826	2213.359	2283.025	2305.535	2322.122	2170.584	2194.868	2085.003	21725.933
13. NET GEN (MWH)	175,015	201,224	7,910	21,612	208,430	220,566	225,390	227,683	231,809	216,688	220,175	208,378	2,164,880
14. ANOHR (Btu/kwh)	10,013	9,991	9,995	10,122	10,031	10,035	10,129	10,126	10,017	10,017	9,969	10,006	10,036
15. NOF (%)	72.0	78.5	84.3	62.8	73.2	81.1	80.2	81.0	84.2	77.8	81.8	74.9	78.3
16. NPC (MW)	433	433	433	433	433	433	433	433	433	433	433	433	433
17. ANOHR EQUATION	ANOHR = NOF( -57.476 ) + 14536												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 4	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	87.8	87.6	87.8	87.6	87.8	87.6	87.8	87.8	87.6	87.8	84.9	31.2	82.6
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	64.5	5.8
3. EUOF	12.2	12.4	12.2	12.4	12.2	12.4	12.2	12.2	12.4	12.2	11.8	4.3	11.6
4. EUOR	12.2	12.4	12.2	12.4	12.2	12.4	12.2	12.2	12.4	12.2	12.2	12.1	12.3
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	691	570	646	645	603	625	672	671	665	687	616	197	7287
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	53	102	98	74	141	95	72	73	55	58	104	547	1473
9. POH	0	0	0	0	0	0	0	0	0	0	24	480	504
10. FOH & EFOH	45	41	45	44	45	44	45	45	44	45	42	16	504
11. MOH & EMOH	46	42	46	45	46	45	46	46	45	46	43	16	512
12. OPER BTU (GBTU)	2481.054	2034.728	2329.232	2343.517	2148.367	2351.869	2557.026	2568.677	2523.161	2692.294	2287.650	703.338	27020.914
13. NET GEN (MWH)	247,723	202,839	231,577	233,507	212,788	231,752	250,787	251,891	248,921	268,698	227,633	70,136	2,678,252
14. ANOHR (Btu/kwh)	10,015	10,031	10,058	10,036	10,096	10,148	10,196	10,198	10,136	10,020	10,050	10,028	10,089
15. NOF (%)	80.2	79.7	80.2	82.0	79.8	83.8	84.5	85.0	84.7	87.4	82.7	79.8	82.7
16. NPC (MW)	447	447	447	442	442	442	442	442	442	447	447	447	445
17. ANOHR EQUATION	ANOHR = NOF( -33.833 ) + 12887												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 5	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	66.9	35.9	0.0	40.2	66.9	66.9	66.9	66.9	66.9	67.0	66.9	66.9	56.7
2. POF	0.0	46.4	100.0	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
3. EUOF	33.1	17.7	0.0	19.7	33.1	33.1	33.1	33.1	33.1	33.0	33.1	33.1	27.9
4. EUOR	33.1	33.1	0.0	32.9	33.1	33.1	33.1	33.1	33.1	33.0	33.1	33.1	33.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	538	261	0	311	538	521	538	538	521	538	521	538	5361
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	206	411	744	408	206	199	206	206	199	207	199	206	3399
9. POH	0	312	744	288	0	0	0	0	0	0	0	0	1344
10. FOH & EFOH	186	90	0	108	186	180	186	186	180	186	180	186	1854
11. MOH & EMOH	60	29	0	34	60	58	60	60	58	60	58	60	593
12. OPER BTU (GBTU)	859,534	433,307	0,000	506,387	847,046	891,330	899,839	905,256	923,239	944,017	863,521	863,669	8937,146
13. NET GEN (MWH)	82,068	41,414	0	47,252	77,777	81,330	81,938	82,477	85,615	89,514	82,208	82,439	834,032
14. ANOHR (Btu/kwh)	10,473	10,463	0	10,717	10,891	10,959	10,982	10,976	10,784	10,546	10,504	10,476	10,716
15. NOF (%)	67.2	70.0	0.0	73.0	69.5	75.1	73.2	73.7	79.1	73.3	69.6	67.5	71.5
16. NPC (MW)	227	227	227	208	208	208	208	208	208	227	227	227	218
17. ANOHR EQUATION	ANOHR = NOF( -4.3274 ) + 11025												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	78.0	78.0	78.0	67.6	62.9	78.1	78.0	78.0	78.1	45.4	0.0	45.3	63.9
2. POF	0.0	0.0	0.0	13.4	19.4	0.0	0.0	0.0	0.0	41.9	100.0	41.9	18.1
3. EUOF	22.0	22.0	22.0	19.1	17.7	21.9	22.0	22.0	21.9	12.8	0.0	12.8	18.0
4. EUOR	22.0	22.0	22.0	22.0	22.0	21.9	22.0	22.0	21.9	21.9	0.0	22.0	22.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	565	511	565	475	456	547	565	565	547	329	0	328	5454
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	179	161	179	244	288	173	179	179	173	416	720	416	3307
9. POH	0	0	0	96	144	0	0	0	0	312	720	312	1584
10. FOH & EFOH	112	101	112	93	90	108	112	112	108	65	0	65	1076
11. MOH & EMOH	52	47	52	44	42	50	52	52	50	30	0	30	502
12. OPER BTU (GBTU)	1771.122	1642.639	1816.412	1492.794	1372.987	1761.459	1819.788	1832.828	1830.106	1090.587	0.000	1053.391	17484.111
13. NET GEN (MWH)	167,645	155,198	170,436	139,572	127,028	162,603	168,152	169,458	170,362	103,191	0	99,746	1,633,391
14. ANOHR (Btu/kwh)	10,565	10,584	10,657	10,696	10,809	10,833	10,822	10,816	10,742	10,569	0	10,561	10,704
15. NOF (%)	75.6	77.5	76.9	79.0	74.9	79.9	80.0	80.6	83.7	80.1	0.0	77.7	78.4
16. NPC (MW)	392	392	392	372	372	372	372	372	372	392	392	392	382
17. ANOHR EQUATION	ANOHR = NOF( 25.825 ) + 8679.5												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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
POLK 1	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	84.5	84.4	84.5	53.4	38.2	84.6	84.5	84.5	84.6	84.6	84.6	84.5	78.0
2. POF	0.0	0.0	0.0	36.7	54.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
3. EUOF	15.5	15.6	15.5	9.9	7.0	15.4	15.5	15.5	15.4	15.4	15.4	15.5	14.3
4. EUOR	15.5	15.6	15.5	15.6	15.5	15.4	15.5	15.5	15.4	15.4	15.4	15.5	15.5
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	576	520	576	427	576	557	576	576	557	576	557	576	6652
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	168	152	168	292	168	163	168	168	163	169	163	168	2108
9. POH	0	0	0	264	408	0	0	0	0	0	0	0	672
10. FOH & EFOH	89	81	89	55	40	86	89	89	86	89	86	89	971
11. MOH & EMOH	26	24	26	16	12	25	26	26	25	26	25	26	283
12. OPER BTU (GBTU)	1420.694	1289.281	1427.784	1052.620	1388.930	1385.545	1430.622	1431.565	1390.353	1436.760	1389.052	1427.708	16470.914
13. NET GEN (MWH)	140,791	127,795	141,528	104,354	137,635	137,375	141,850	141,949	137,880	142,483	137,743	141,533	1,632,916
14. ANOHR (Btu/kwh)	10,091	10,089	10,088	10,087	10,091	10,086	10,085	10,085	10,084	10,084	10,084	10,087	10,087
15. NOF (%)	97.8	98.2	98.3	97.7	95.6	98.6	98.5	98.6	98.9	98.9	98.8	98.3	98.2
16. NPC (MW)	250	250	250	250	250	250	250	250	250	250	250	250	250
17. ANOHR EQUATION	ANOHR = NOF( -14.839 ) + 11544												

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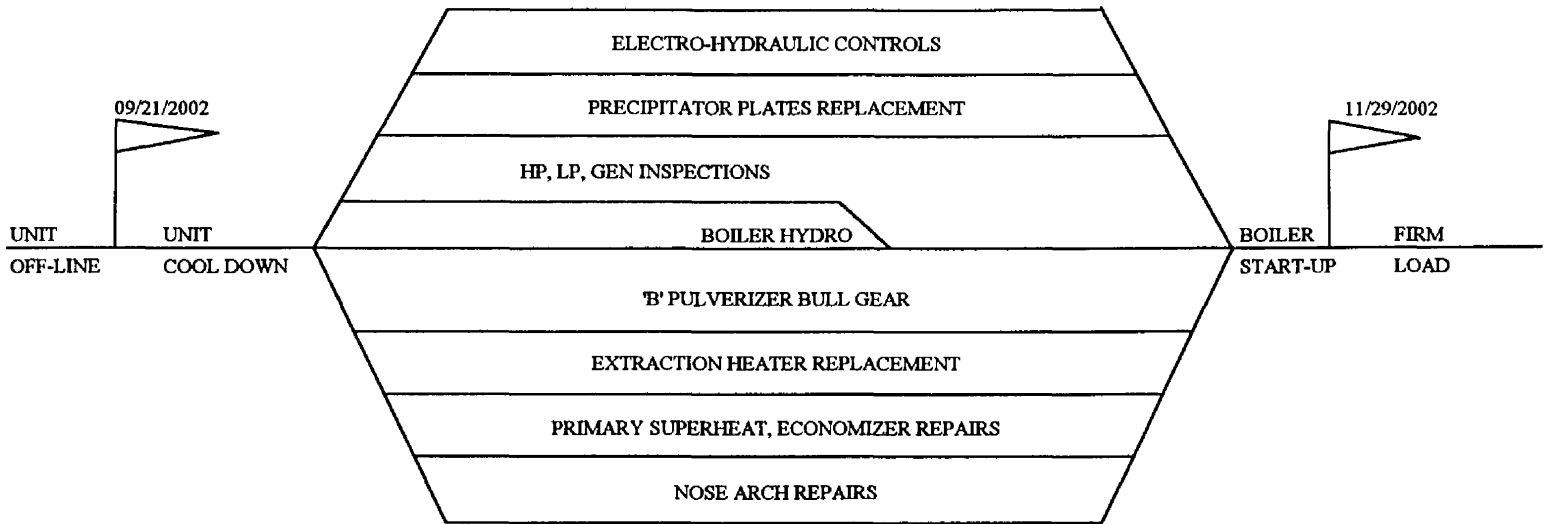
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**TAMPA ELECTRIC COMPANY  
PLANNED OUTAGE SCHEDULE (ESTIMATED)  
GPIF UNITS  
JANUARY 2002 - DECEMBER 2002**

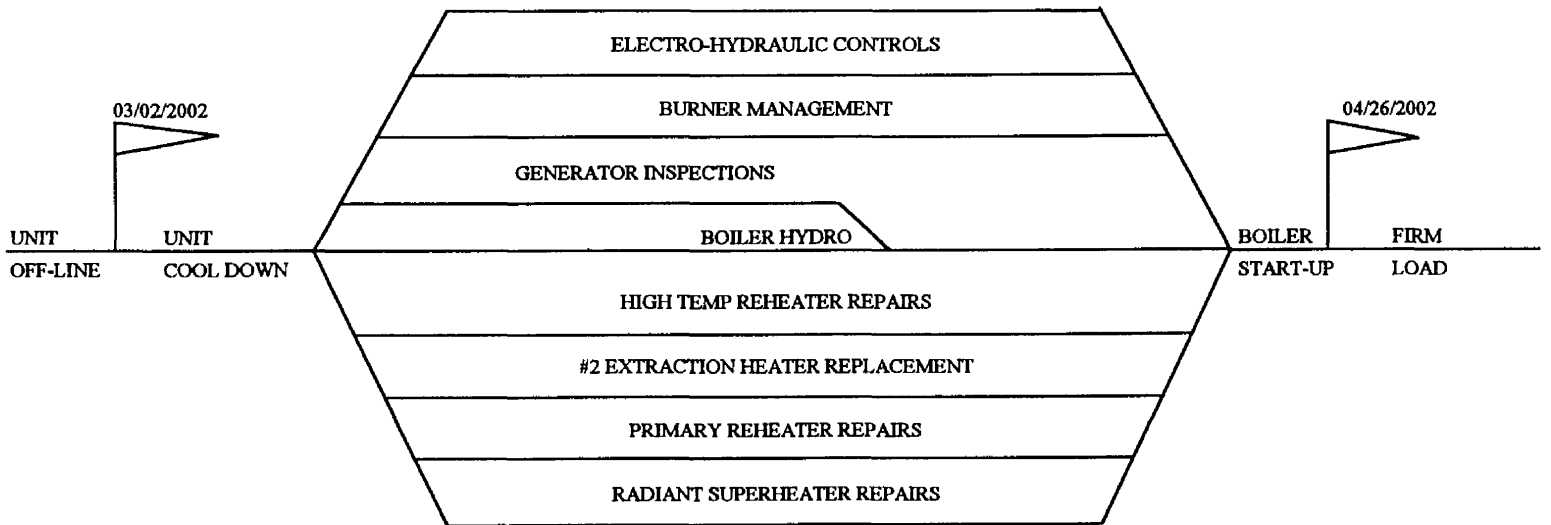
<u>PLANT / UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE DESCRIPTION</u>
BIG BEND 1	Feb 16 - Mar 01	Fuel System Clean-up
+ BIG BEND 2	Sep 21 - Nov 29	LP inspection, HP inspection, nose arch repairs, precipator, B pulverizer bull gear, extraction heater replacement, generator inspection, primary superheater, economizer, electric-hydro controls
+ BIG BEND 3	Mar 02 - Apr 26	Primary reheater, high temp reheater, radiant superheater, electric-hydro controls, generator inspection, #2 extraction heater, burner management
BIG BEND 4	Nov 30 - Dec 20	Fuel System Clean-up
+ GANNON 5	Feb 16 - Apr 12	HP, IP, LP controls, generator rewind with rings, condenser repairs
+ GANNON 6	Apr 27 - May 06 Oct 19 - Dec 13	Fuel System Clean-up Boiler tube repairs, HP, IP, LP controls
POLK 1	Apr 20 - May 17	Fuel System Clean-up

+ CPM for units with less than or equal to 4 weeks are not included.

**TAMPA ELECTRIC COMPANY  
CRITICAL PATH METHOD DIAGRAMS  
GPIF UNITS > FOUR WEEKS  
JANUARY 2002 - DECEMBER 2002**

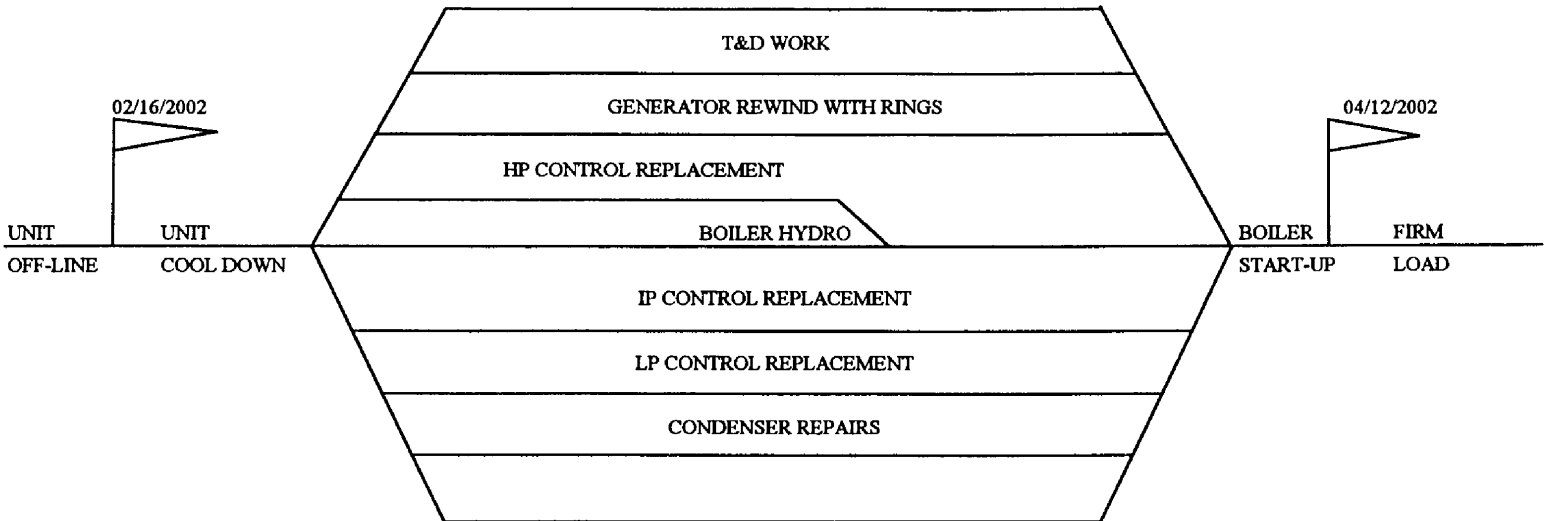


TAMPA ELECTRIC COMPANY  
BIG BEND UNIT NUMBER 2  
PLANNED OUTAGE 2002  
PROJECTED CPM  
09/20/2001

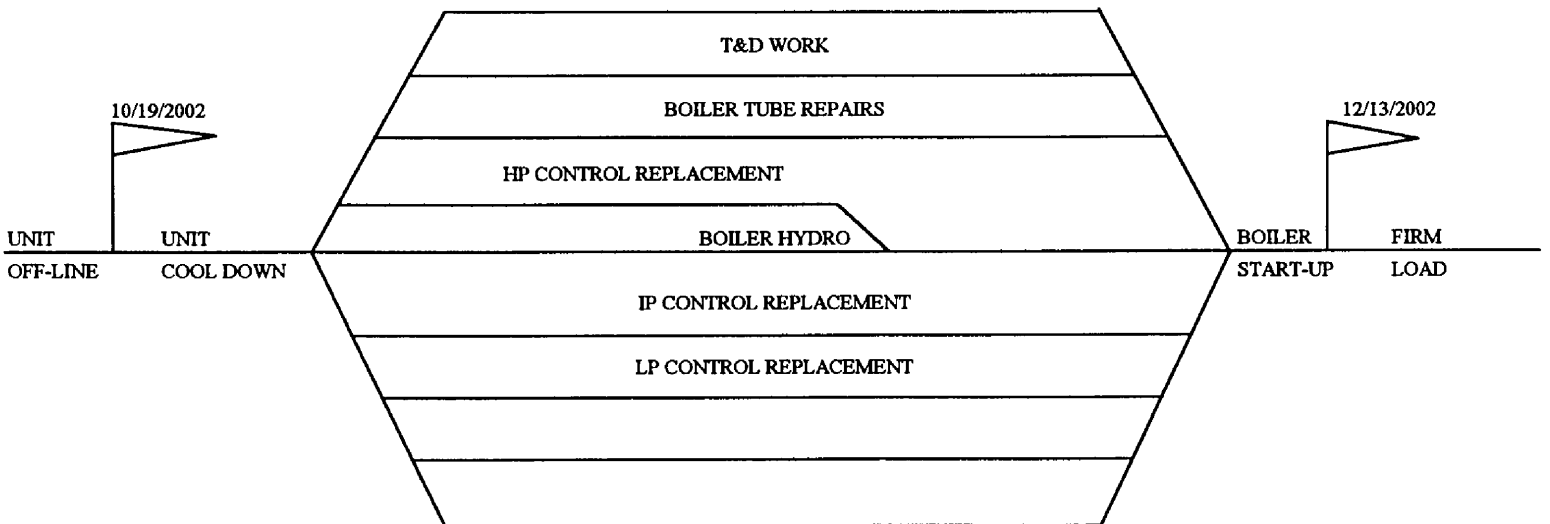


TAMPA ELECTRIC COMPANY  
BIG BEND UNIT NUMBER 3  
PLANNED OUTAGE 2002  
PROJECTED CPM  
09/20/2001

**TAMPA ELECTRIC COMPANY  
CRITICAL PATH METHOD DIAGRAMS  
GPIF UNITS > FOUR WEEKS  
JANUARY 2002 - DECEMBER 2002**

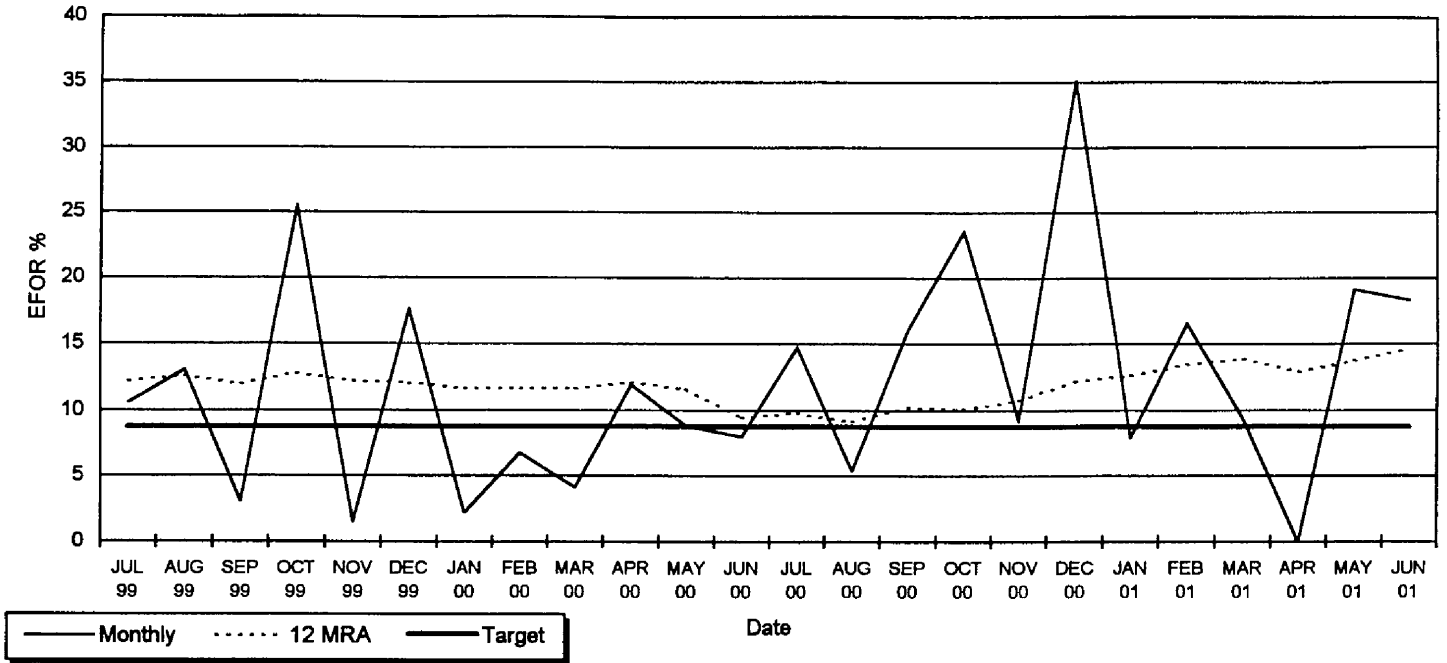


TAMPA ELECTRIC COMPANY  
GANNON UNIT NUMBER 5  
PLANNED OUTAGE 2002  
PROJECTED CPM  
09/20/2001

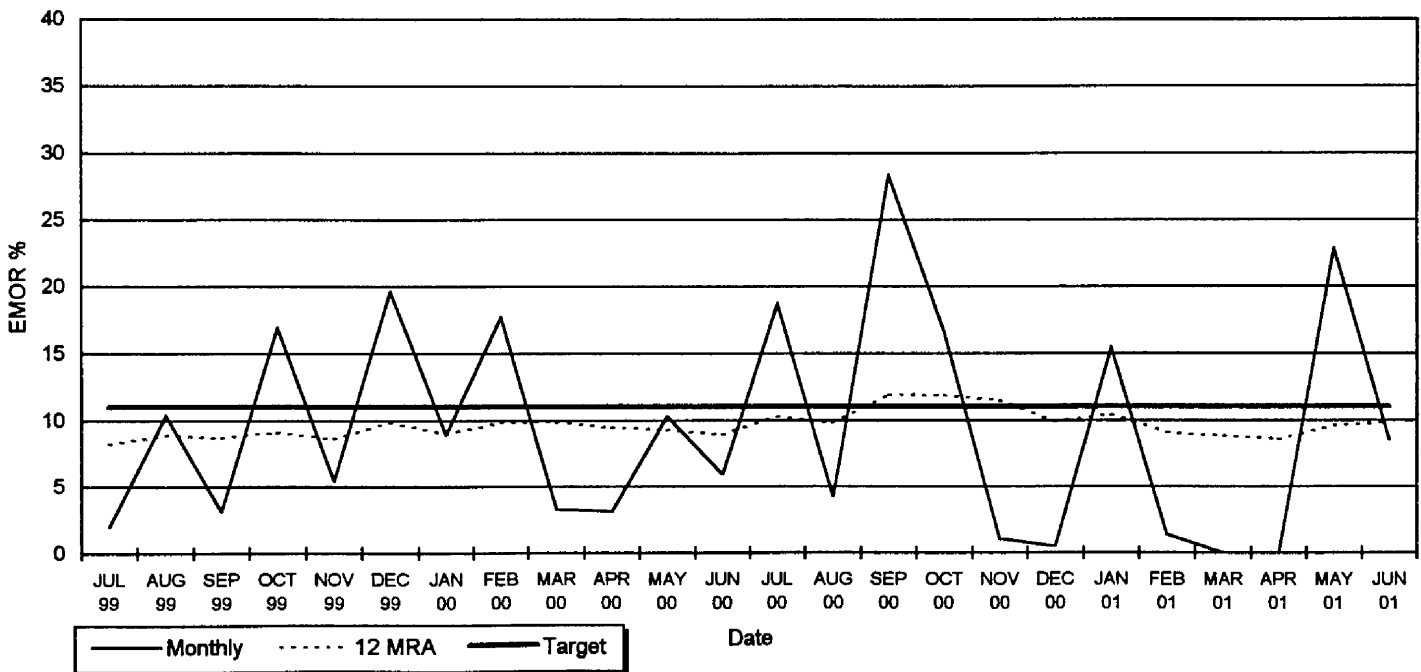


TAMPA ELECTRIC COMPANY  
GANNON UNIT NUMBER 6  
PLANNED OUTAGE 2002  
PROJECTED CPM  
09/20/2001

**Big Bend Unit 1**  
EFOR

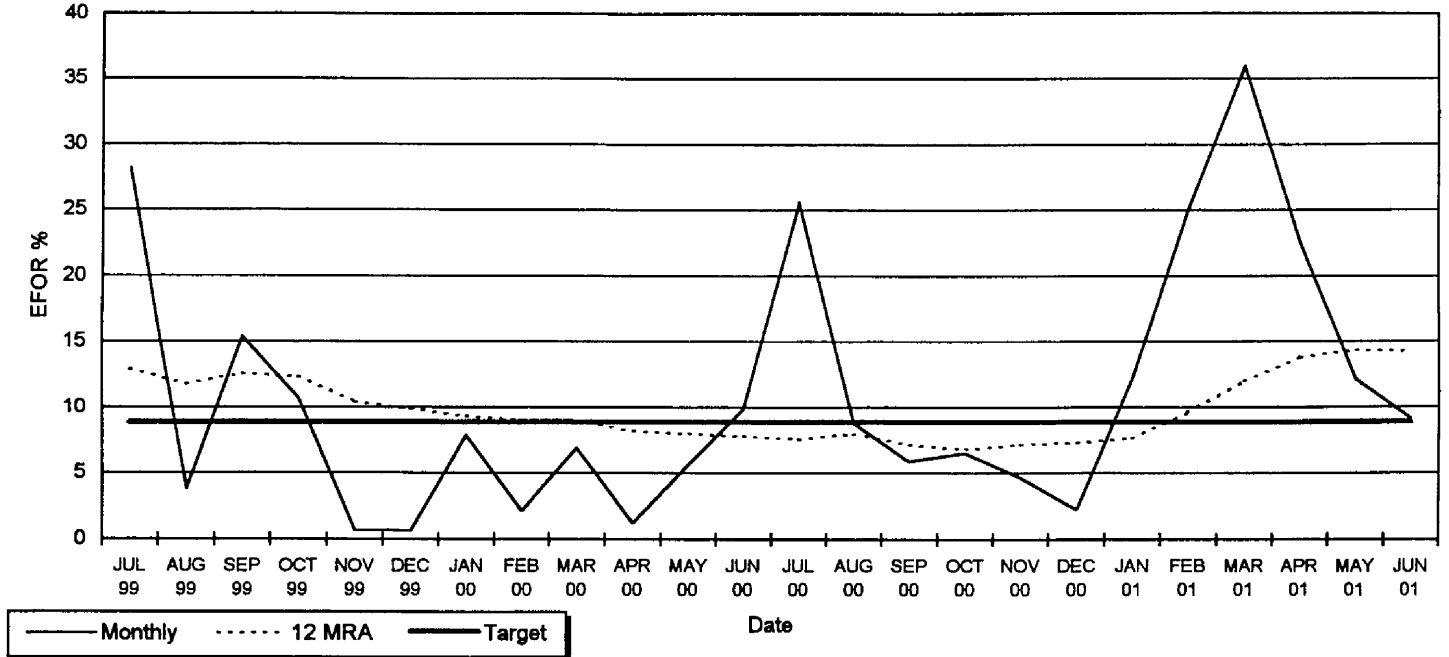


**Big Bend Unit 1**  
EMOR

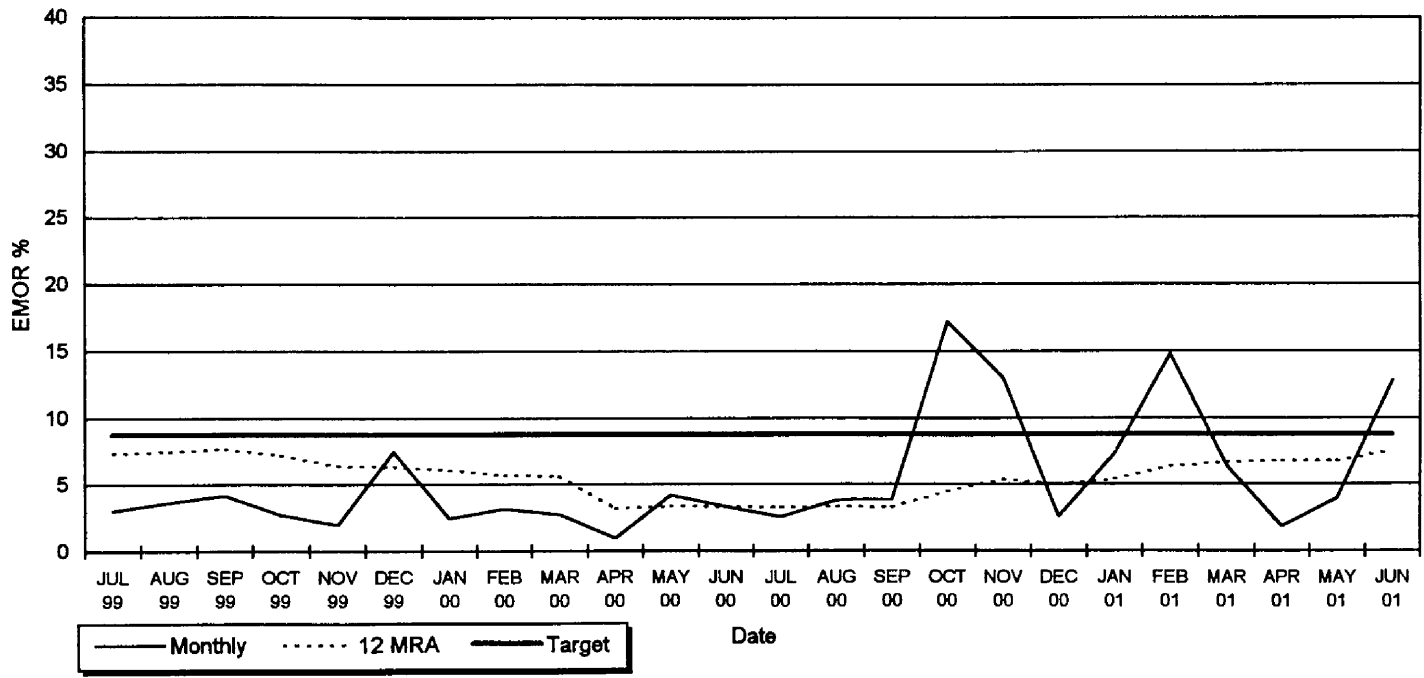


12 MRA = 12 Month Rolling Average

**Big Bend Unit 2**  
EFOR

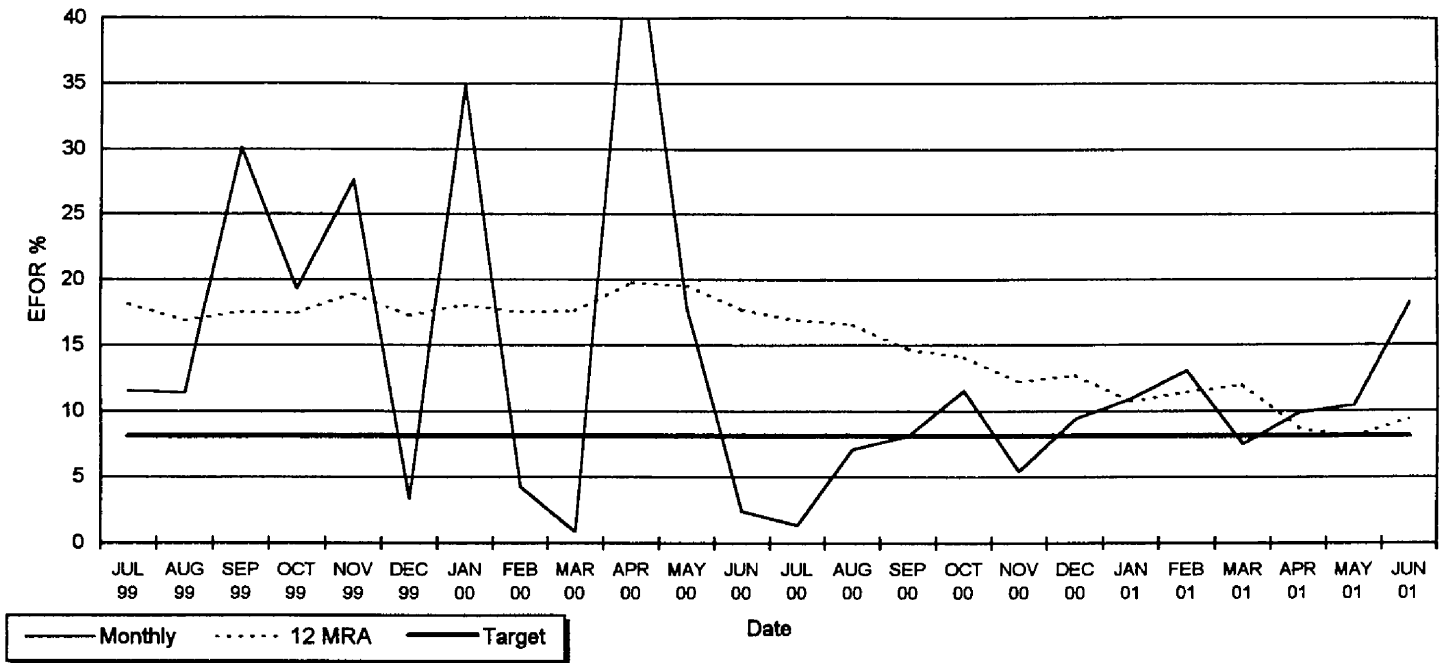


**Big Bend Unit 2**  
EMOR

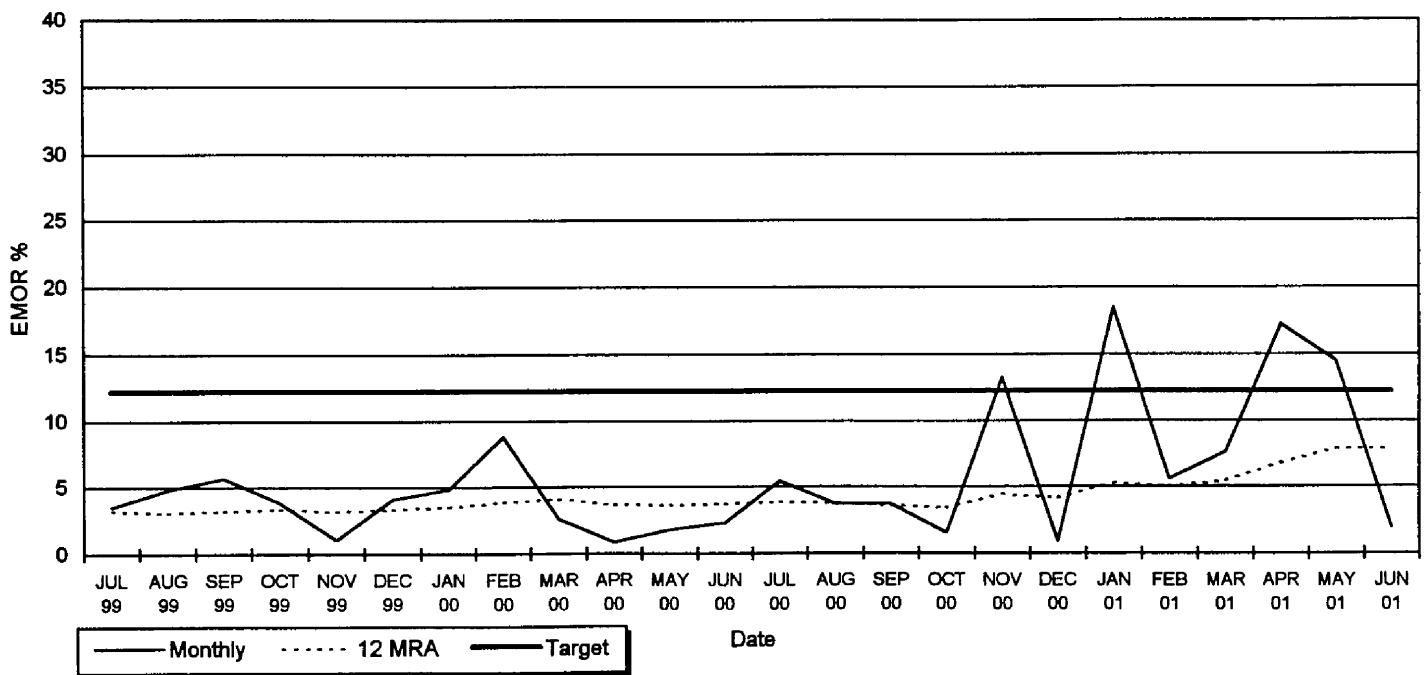


12 MRA = 12 Month Rolling Average

**Big Bend Unit 3**  
EFOR

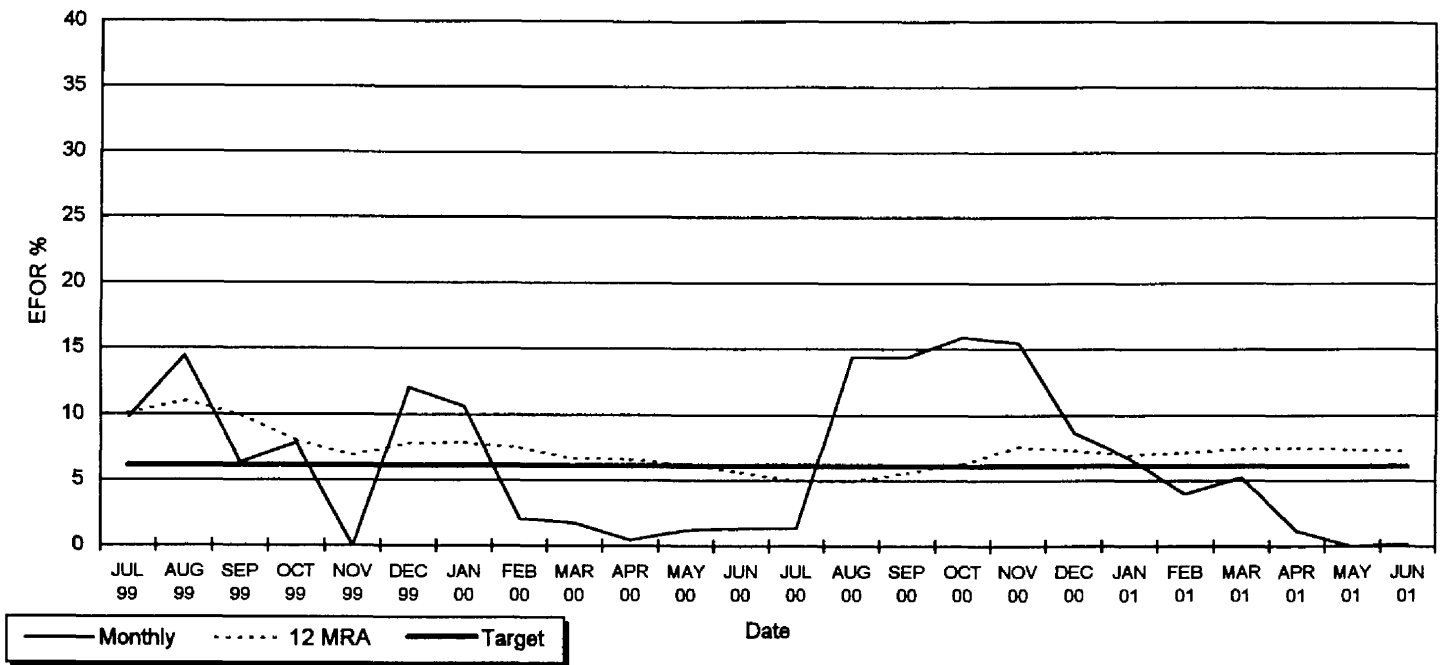


**Big Bend Unit 3**  
EMOR

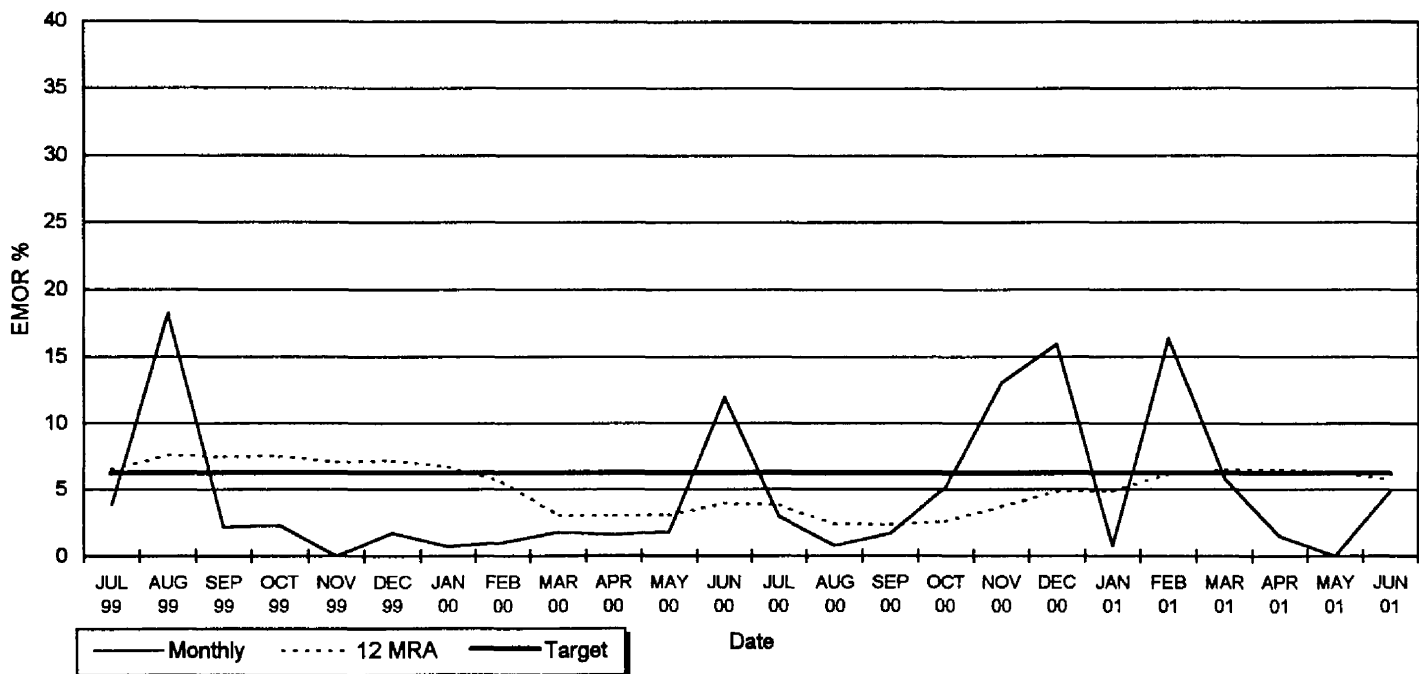


12 MRA = 12 Month Rolling Average

**Big Bend Unit 4**  
EFOR



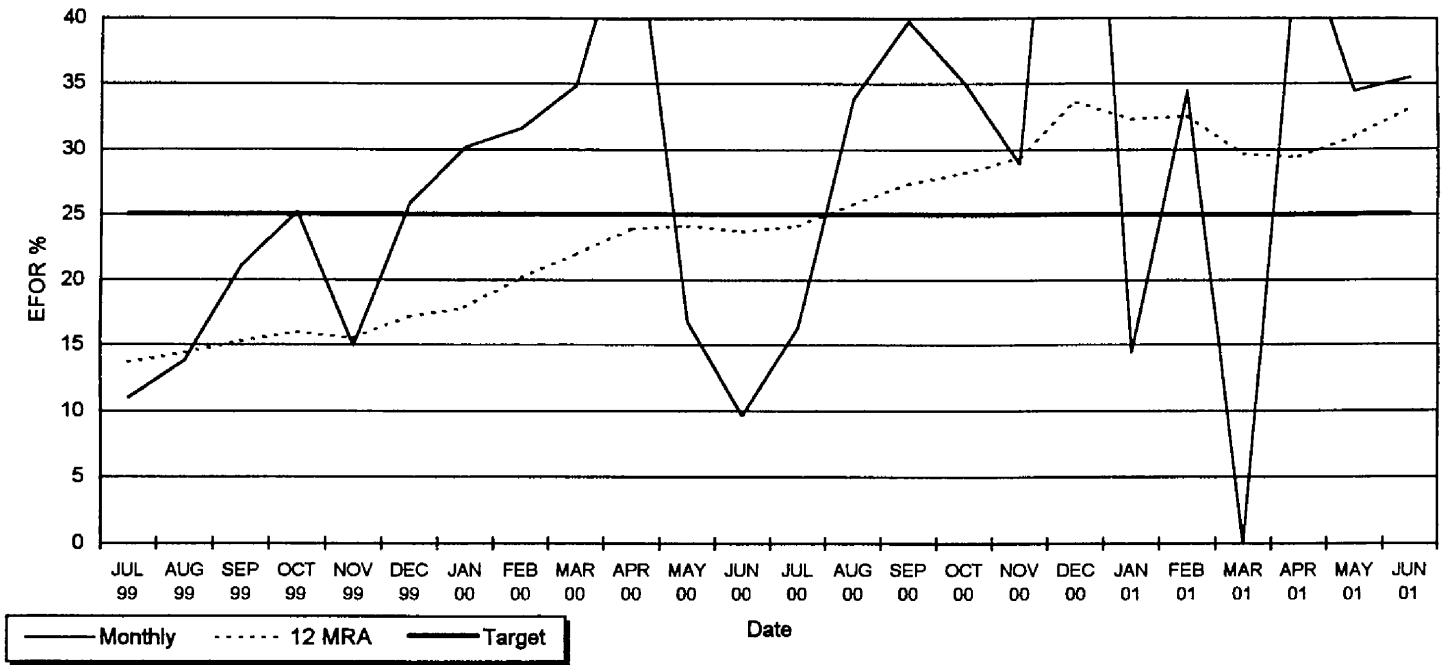
**Big Bend Unit 4**  
EMOR



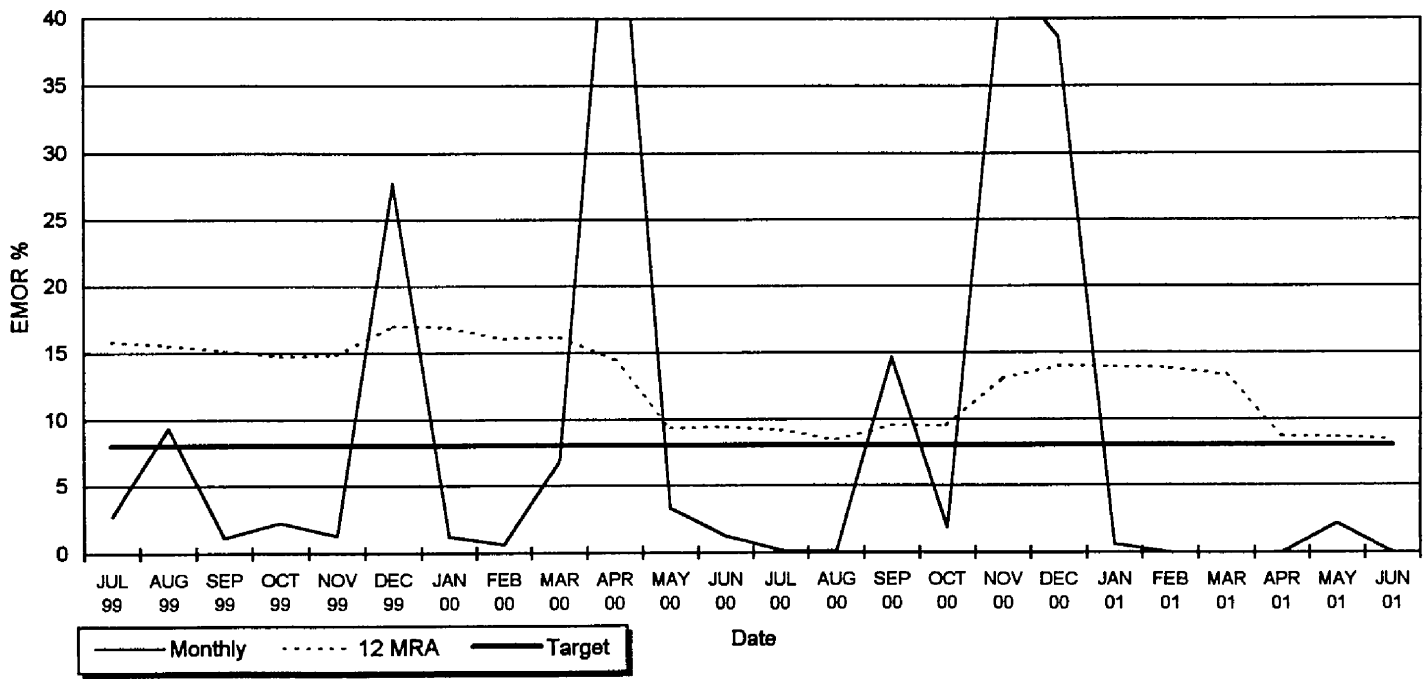
12 MRA = 12 Month Rolling Average



**Gannon Unit 5**  
EFOR

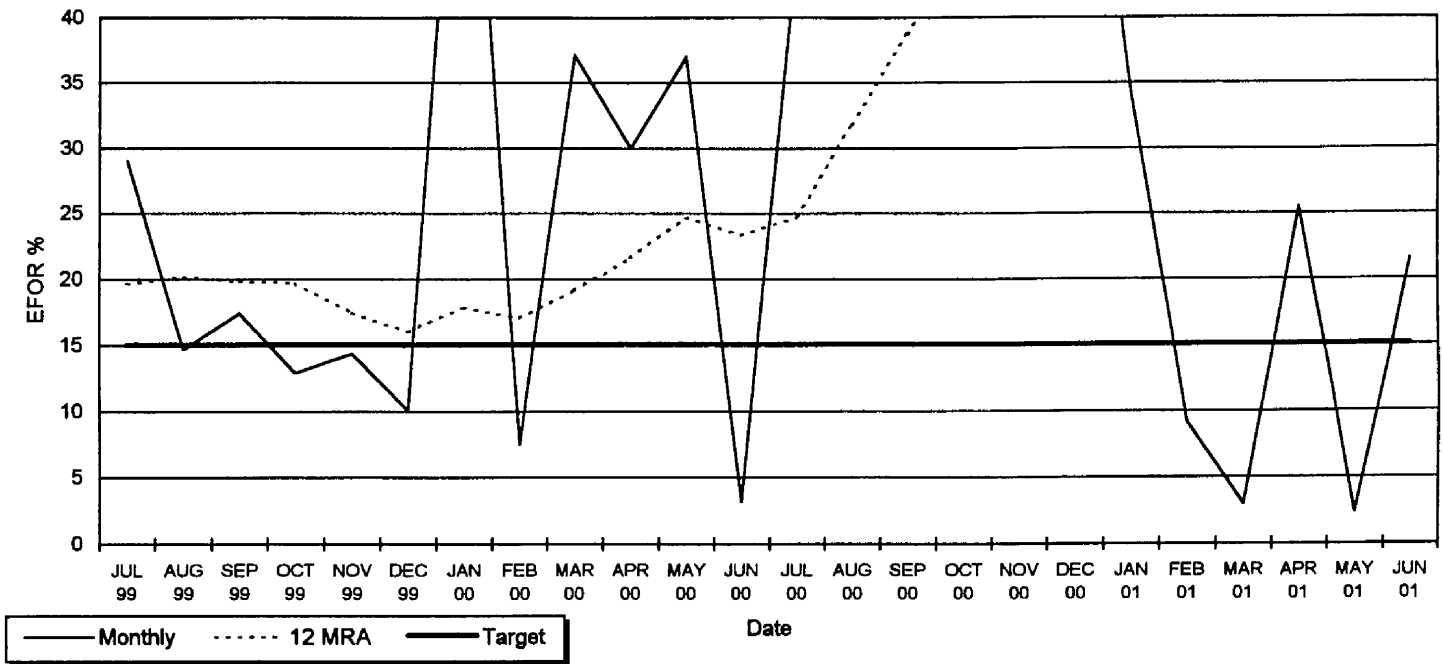


**Gannon Unit 5**  
EMOR

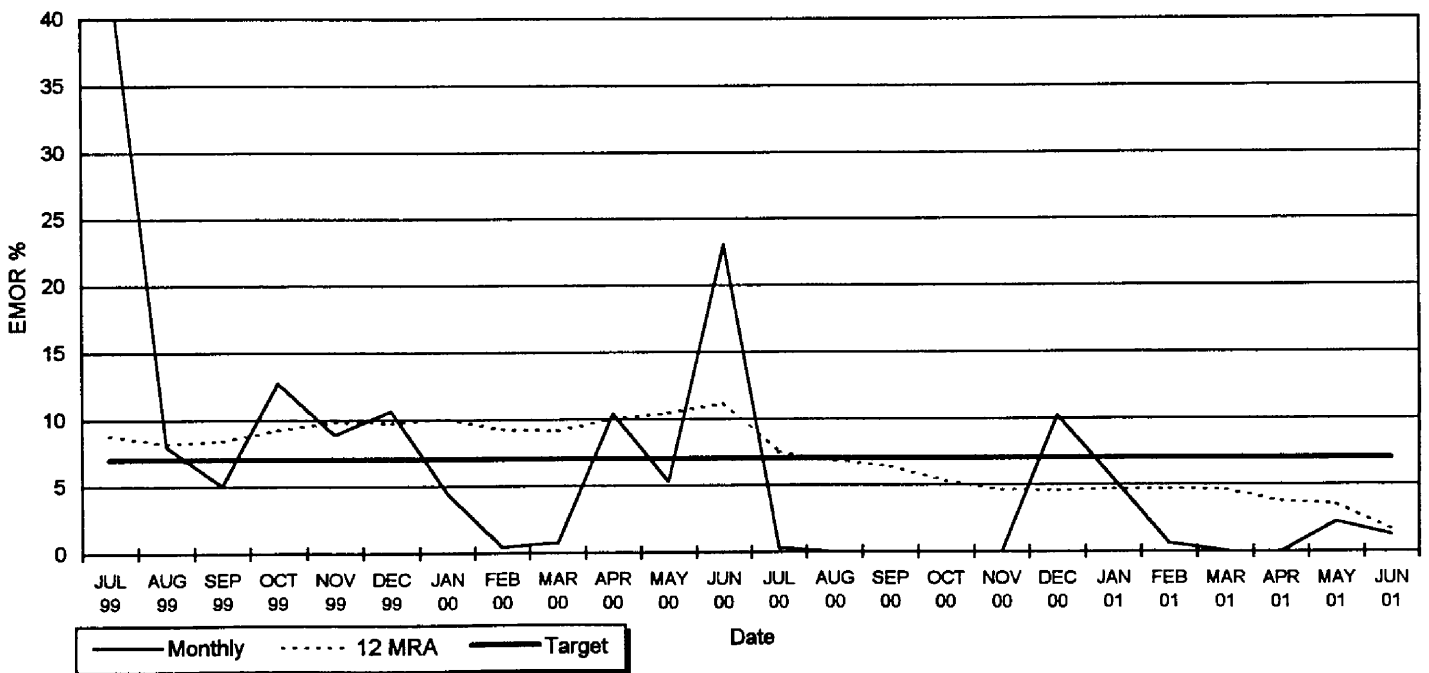


12 MRA = 12 Month Rolling Average

**Gannon Unit 6**  
EFOR

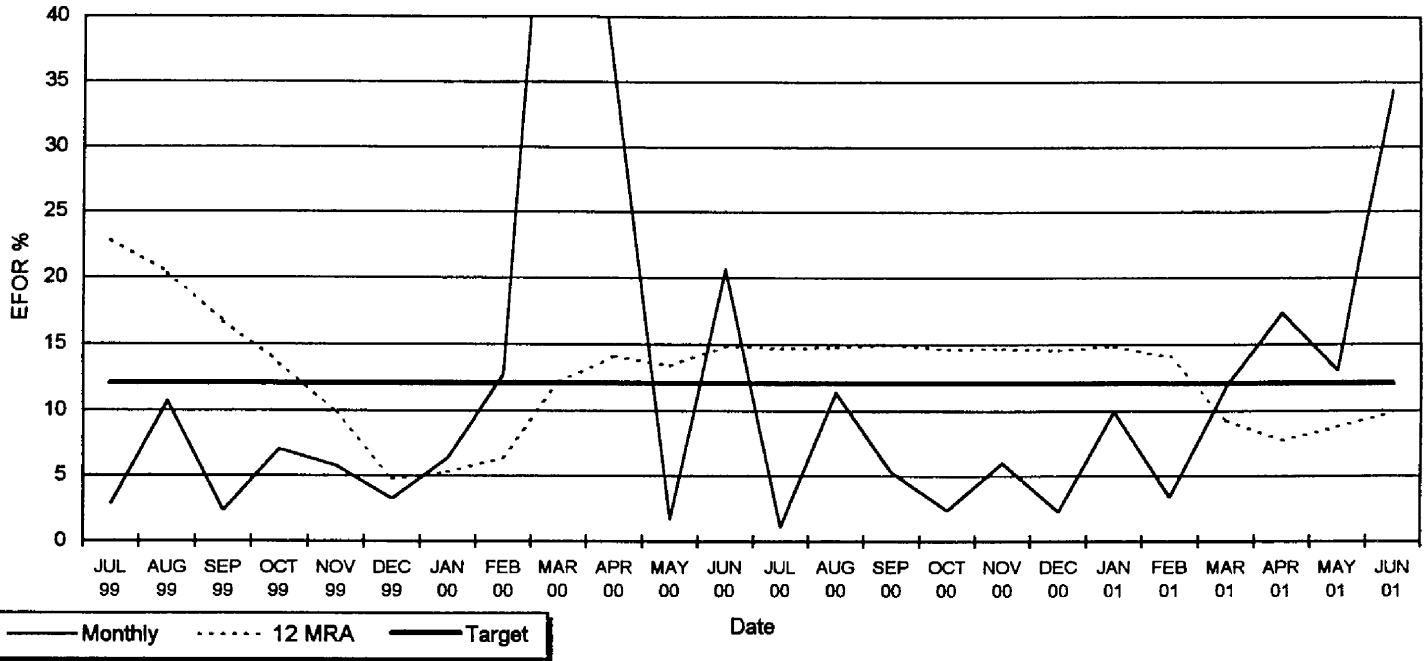


**Gannon Unit 6**  
EMOR

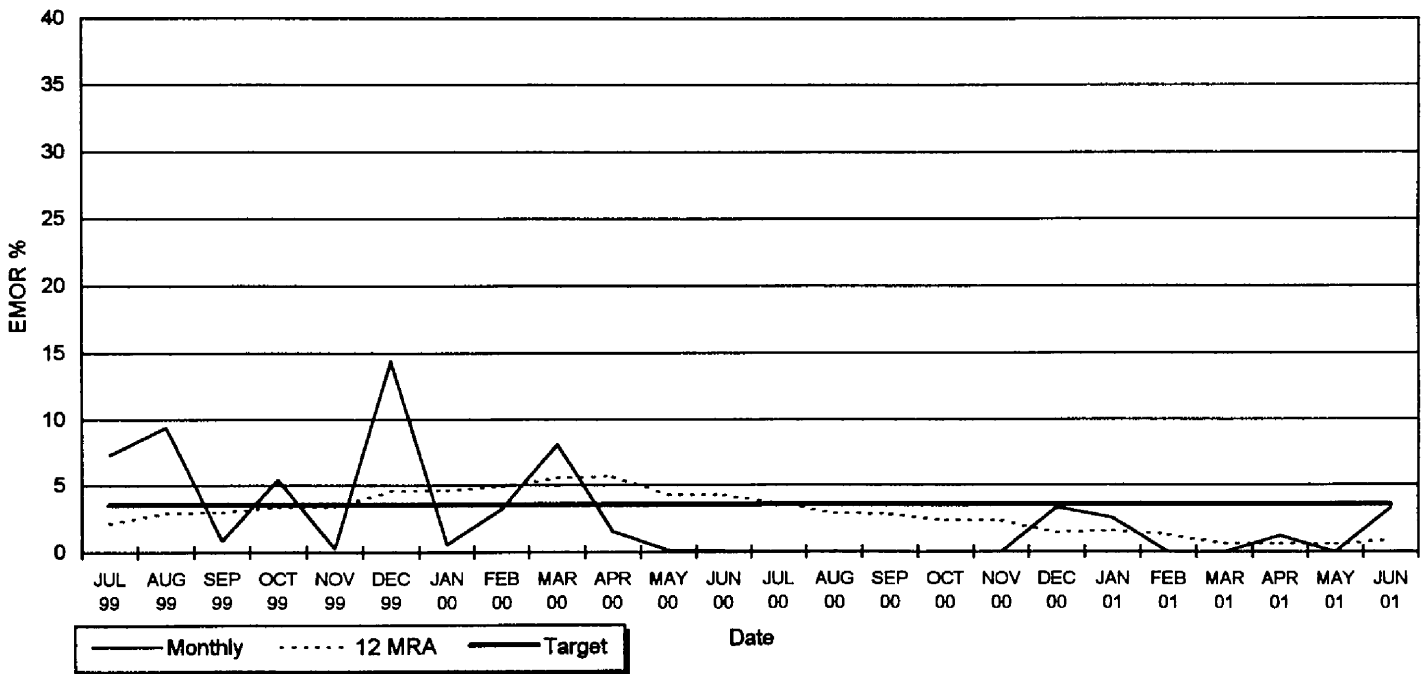


12 MRA = 12 Month Rolling Average

**Polk Unit 1**  
EFOR

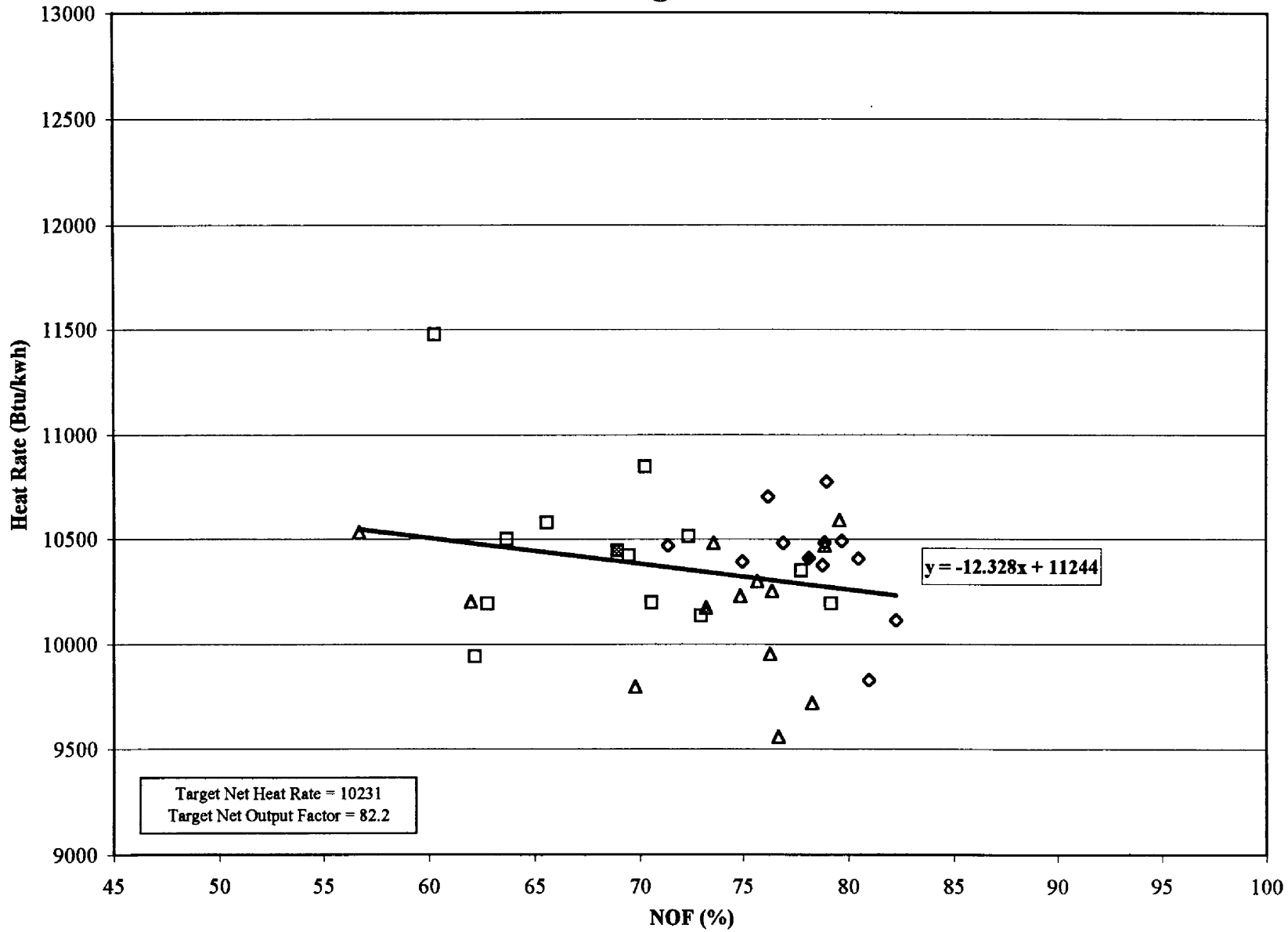


**Polk Unit 1**  
EMOR



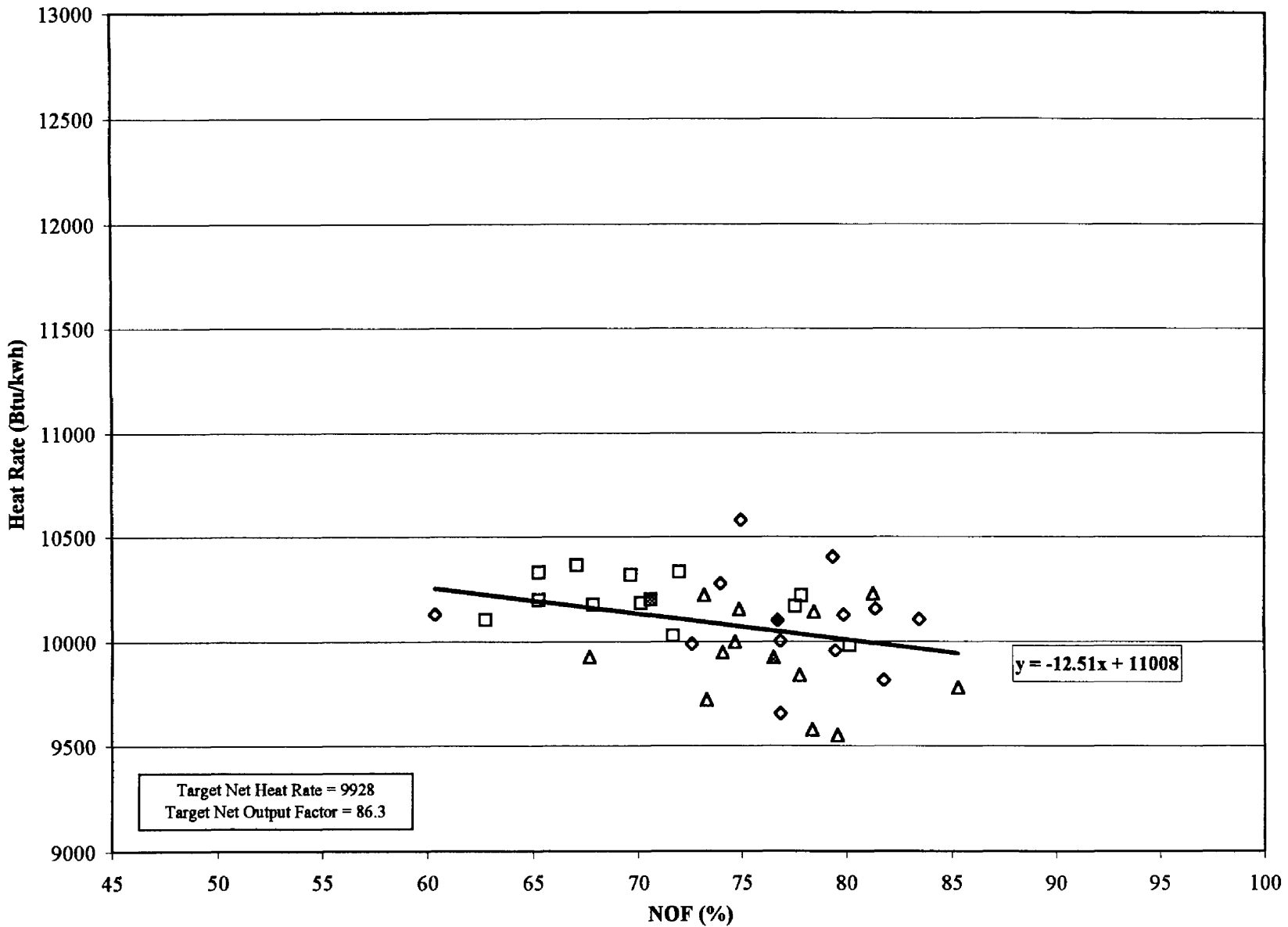
12 MRA = 12 Month Rolling Average

# Tampa Electric Company Heat Rate vs Net Output Factor Big Bend Unit #1



52

# Tampa Electric Company Heat Rate vs Net Output Factor Big Bend Unit #2

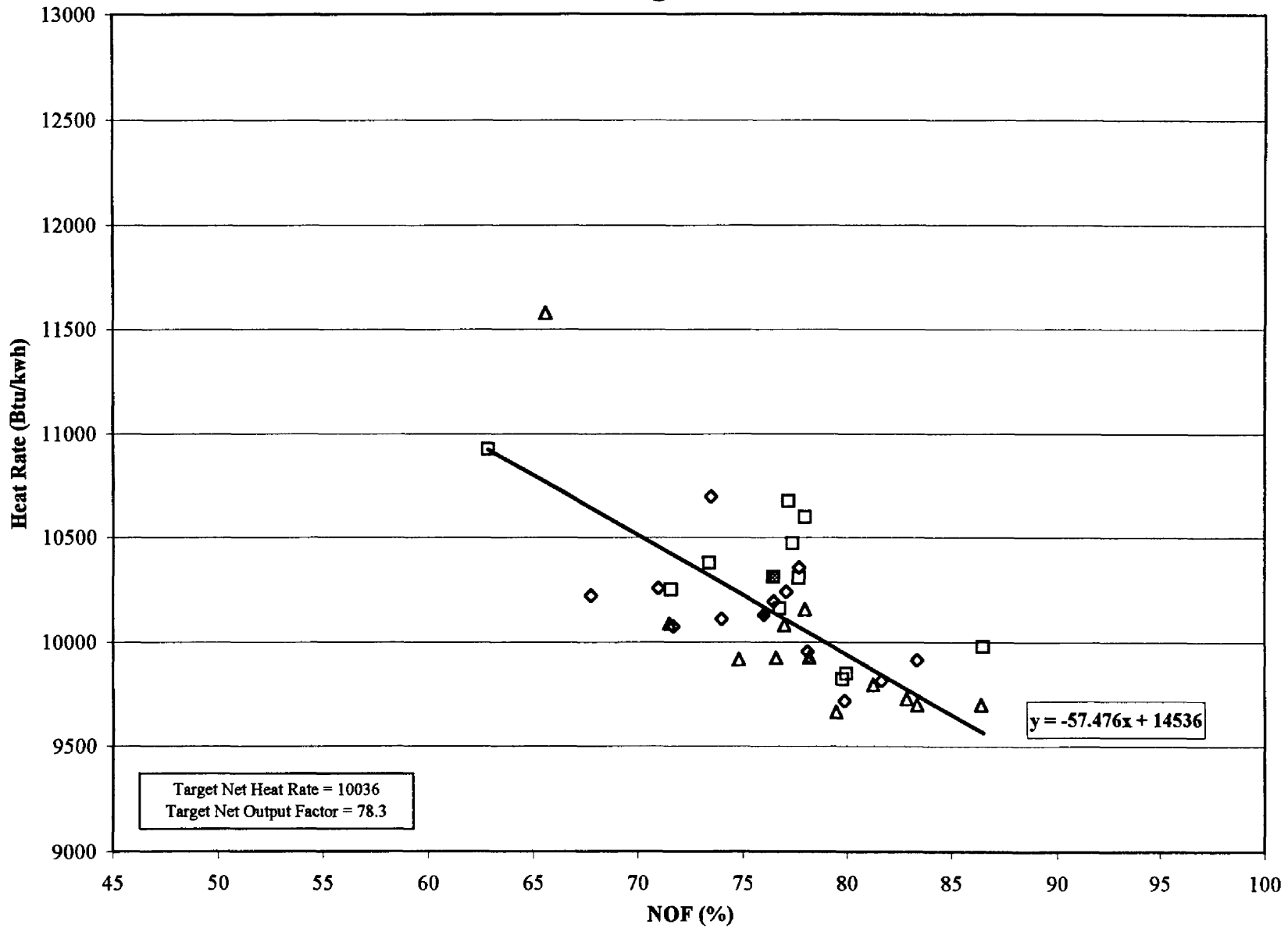


53

□ JUL 98-JUN 99
▲ JUL 99-JUN 00
◆ JUL 00-JUN 01
■ AVG 98 - 99
▲ AVG 99 - 00
● AVG 00 - 01
— Linear (3 Year Trend)

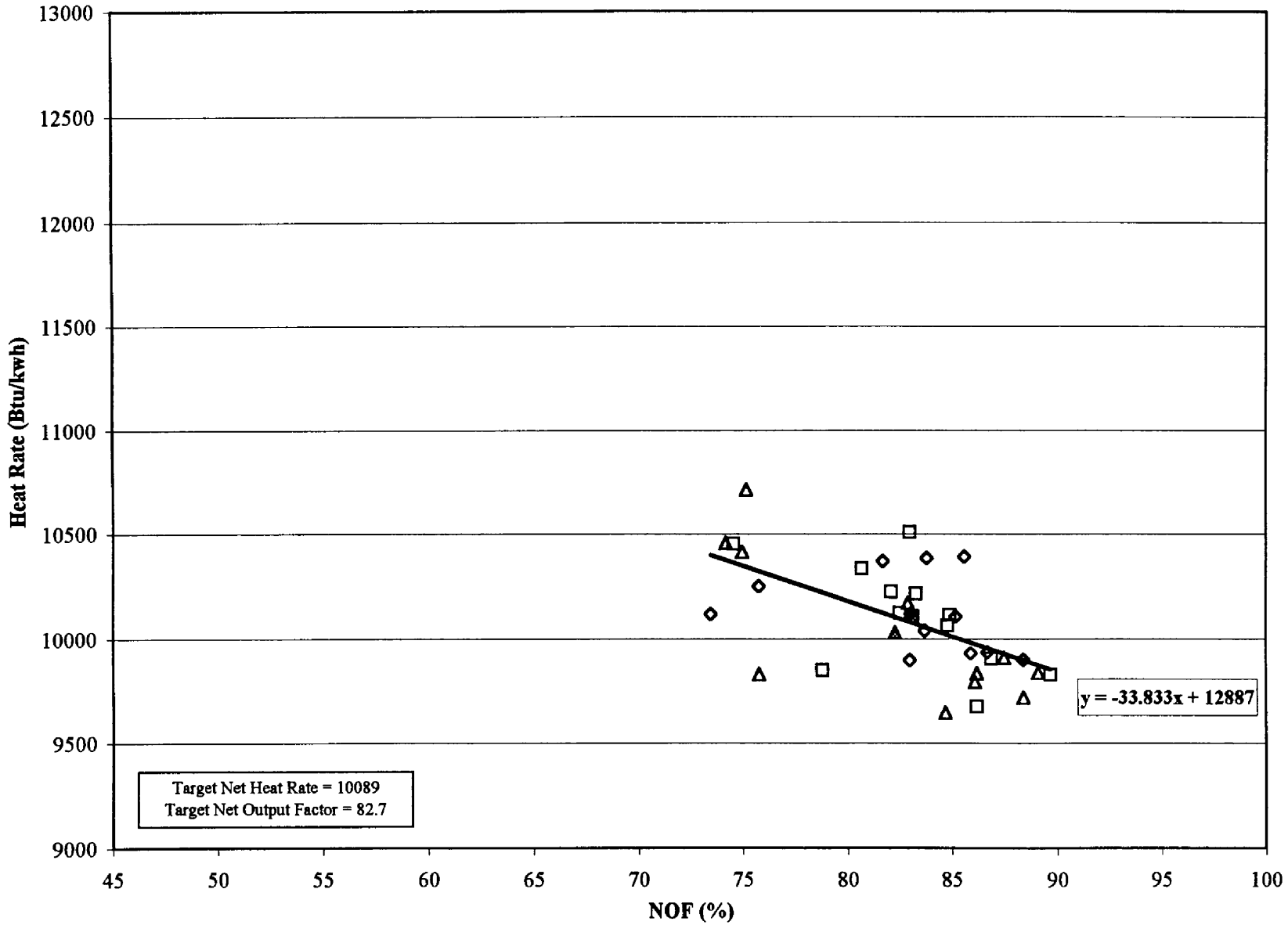
# Tampa Electric Company Heat Rate vs Net Output Factor Big Bend Unit #3

5-1



□ JUL 98-JUN 99
△ JUL 99-JUN 00
◇ JUL 00-JUN 01
■ AVG 98-99
▲ AVG 99-00
● AVG 00-01
— Linear (3 Year Trend)

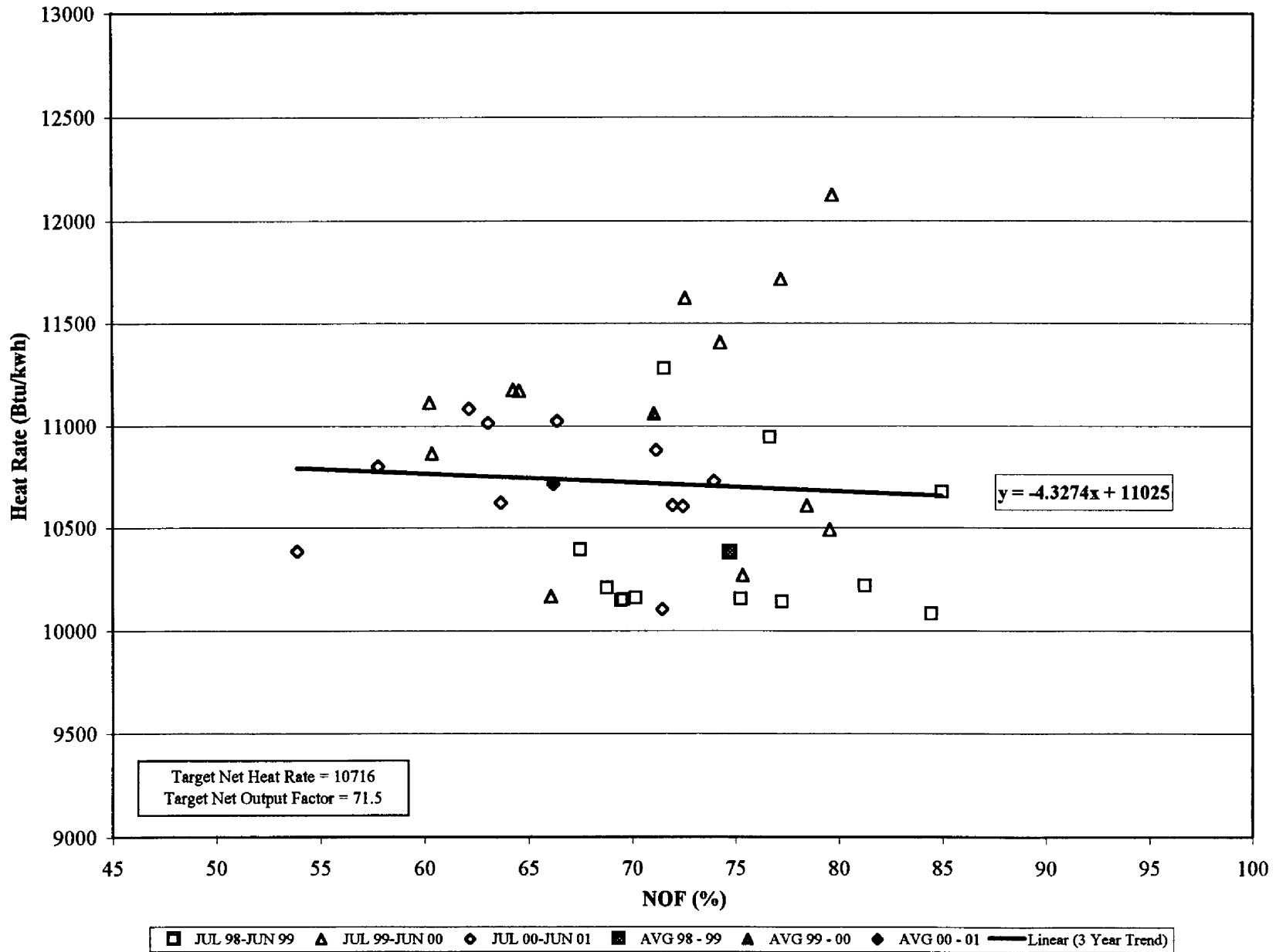
# Tampa Electric Company Heat Rate vs Net Output Factor Big Bend Unit #4



□ JUL 98-JUN 99
▲ JUL 99-JUN 00
◆ JUL 00-JUN 01
■ AVG 98 - 99
▲ AVG 99 - 00
◆ AVG 00 - 01
— Linear (3 Year Trend)

55

# Tampa Electric Company Heat Rate vs Net Output Factor Gannon Unit #5

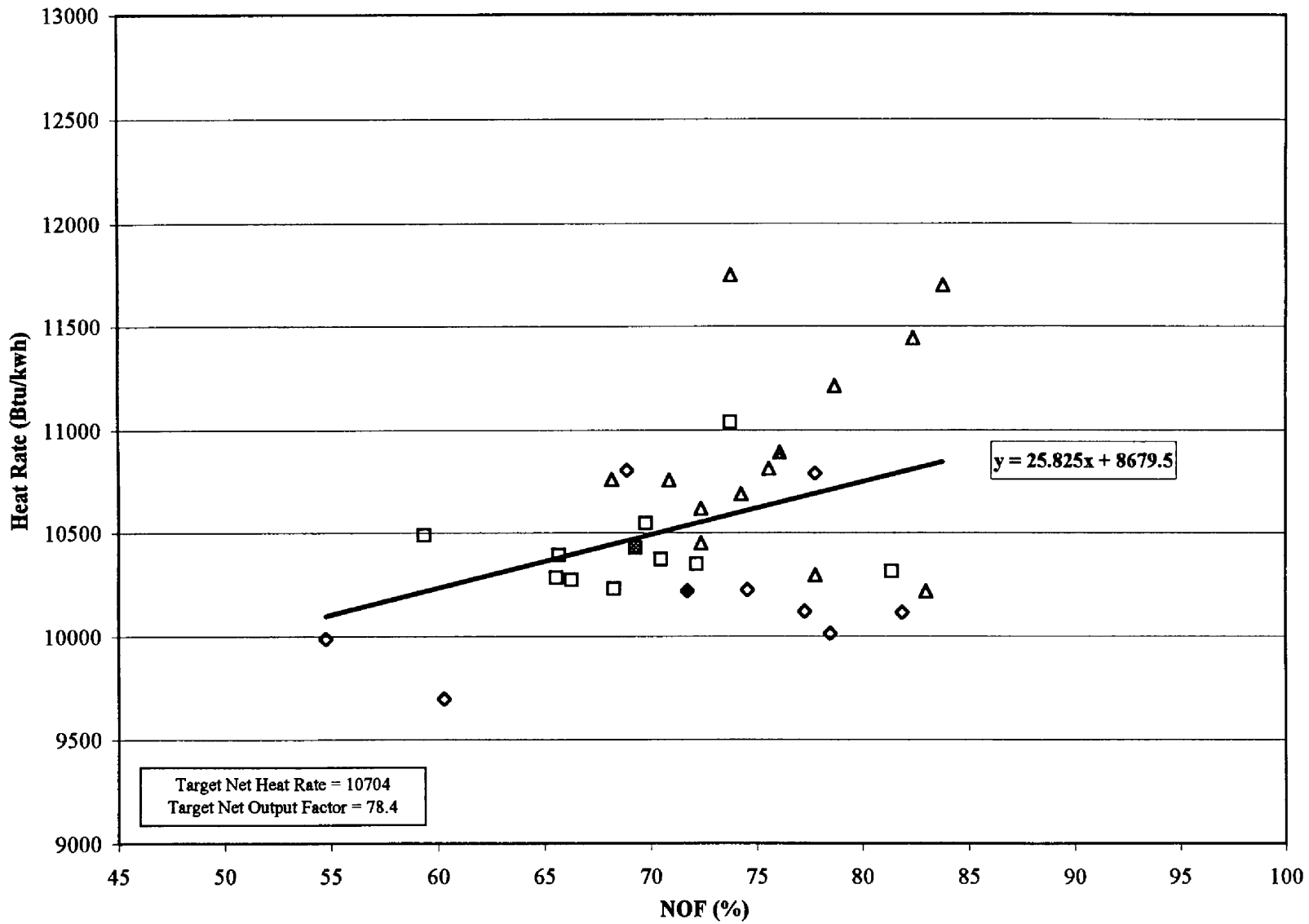


35



# Tampa Electric Company Heat Rate vs Net Output Factor Gannon Unit #6

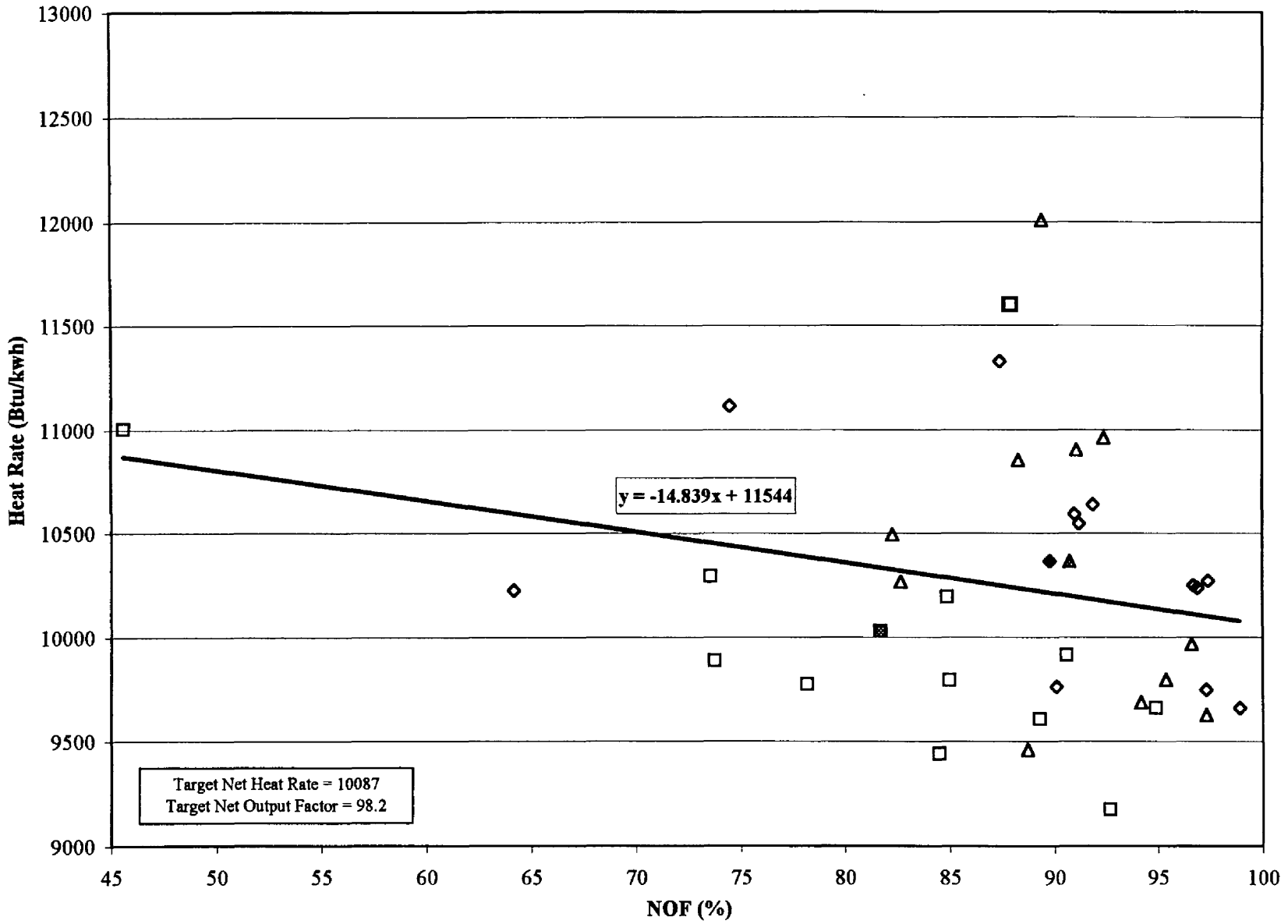
15



□ JUL 98-JUN 99
▲ JUL 99-JUN 00
◆ JUL 00-JUN 01
■ AVG 98 - 99
▲ AVG 99 - 00
● AVG 00 - 01
— Linear (3 Year Trend)

# Tampa Electric Company Heat Rate vs Net Output Factor Polk Unit #1

ES



□ JUL 98-JUN 99
▲ JUL 99-JUN 00
◆ JUL 00-JUN 01
■ AVG 98 - 99
▲ AVG 99 - 00
● AVG 00 - 01
— Linear (3 Year Trend)

**TAMPA ELECTRIC COMPANY  
GENERATING UNITS IN GPIF  
TABLE 4.2  
JANUARY 2002 - DECEMBER 2002**

<u>PLANT / UNIT</u>	<u>ANNUAL GROSS MDC (MW)</u>	<u>ANNUAL NET NDC (MW)</u>
BIG BEND 1 w/o FGD	440	426
BIG BEND 2 w/o FGD	440	426
BIG BEND 3	450	433
BIG BEND 4	473	445
GANNON 5	230	217.5
GANNON 6	395	382
POLK 1	315	250
<b>GPIF TOTAL</b>	<b><u>2743</u></b>	<b><u>2579</u></b>
<b>SYSTEM TOTAL</b>	<b>3824</b>	<b>3624.5</b>
<b>% OF SYSTEM TOTAL</b>	<b>71.72%</b>	<b>71.15%</b>

**TAMPA ELECTRIC COMPANY  
UNIT RATINGS  
JANUARY 2002 - DECEMBER 2002**

<u>PLANT / UNIT</u>	<u>ANNUAL GROSS MDC (MW)</u>	<u>ANNUAL NET NDC (MW)</u>
GANNON 1	120	114
GANNON 2	105	98
GANNON 3	155	145
GANNON 4	175	164
GANNON 5	230	217.5
GANNON 6	395	382
<b>GANNON TOTAL</b>	<b><u>1180</u></b>	<b><u>1120.5</u></b>
BIG BEND 1 w/o FGD	440	426
BIG BEND 2 w/o FGD	440	426
BIG BEND 3	450	433
BIG BEND 4	473	445
<b>BIG BEND TOTAL</b>	<b><u>1803</u></b>	<b><u>1730</u></b>
BIG BEND CT1	15	15
BIG BEND CT2	73	73
BIG BEND CT3	73	73
<b>CT TOTAL</b>	<b><u>160.5</u></b>	<b><u>160.5</u></b>
PHILLIPS 1	18	17
PHILLIPS 2	18	17
<b>PHILLIPS TOTAL</b>	<b><u>36</u></b>	<b><u>34</u></b>
POLK 1	315	250
POLK 2	165	165
POLK 3	165	165
<b>POLK TOTAL</b>	<b><u>645</u></b>	<b><u>580</u></b>
<b>SYSTEM TOTAL</b>	<b>3824</b>	<b>3625</b>

**TAMPA ELECTRIC COMPANY  
PERCENT GENERATION BY UNIT  
JANUARY 2002 - DECEMBER 2002**

<u>PLANT</u>	<u>UNIT</u>	<u>NET OUTPUT MWH</u>	<u>PERCENT OF PROJECTED OUTPUT</u>	<u>PERCENT CUMULATIVE PROJECTED OUTPUT</u>
BIG BEND	4	2,678,252	15.74%	15.74%
BIG BEND	1	2,567,761	15.09%	30.82%
BIG BEND	2	2,385,112	14.01%	44.84%
BIG BEND	3	2,164,880	12.72%	57.55%
GANNON	6	1,633,391	9.60%	67.15%
POLK	1	1,632,916	9.59%	76.74%
GANNON	5	834,032	4.90%	81.65%
GANNON	4	652,823	3.84%	85.48%
GANNON	3	608,896	3.58%	89.06%
GANNON	1	502,729	2.95%	92.01%
POLK	2	474,854	2.79%	94.80%
GANNON	2	361,526	2.12%	96.93%
POLK	3	277,939	1.63%	98.56%
PHILLIPS	1	67,659	0.40%	98.96%
PHILLIPS	2	64,179	0.38%	99.33%
BIG BEND CT	2	54,379	0.32%	99.65%
BIG BEND CT	3	50,380	0.30%	99.95%
<u>BIG BEND CT</u>	<u>1</u>	<u>8,712</u>	<u>0.05%</u>	<u>100.00%</u>
TOTAL GENERATION		17,020,420	100.00%	

GENERATION BY COAL UNITS: 16,022,318 MWH

GENERATION BY NATURAL GAS UNITS: 752,793 MWH

% GENERATION BY COAL UNITS: 94.14%

% GENERATION BY NATURAL GAS UNITS: 4.42%

GENERATION BY OIL UNITS: 245,309 MWH

GENERATION BY GPIF UNITS: 13,896,344 MWH

% GENERATION BY OIL UNITS: 1.44%

% GENERATION BY GPIF UNITS: 81.65%

EXHIBITS TO THE TESTIMONY OF  
GEORGE A. KESELOWSKY

DOCKET NO. 010001-EI

GENERATING PERFORMANCE INCENTIVE FACTOR  
JANUARY 2002 - DECEMBER 2002

DOCUMENT NO. 1

PART B - UNIT PERFORMANCE DATA

**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002  
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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 FADJ (w/ FGD)	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	80.2	43.0	77.7	80.3	80.2	80.3	80.2	80.2	80.3	80.3	80.3	80.2	77.2
2. POF	0.0	46.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
3. EUOF	19.8	10.6	19.1	19.7	19.8	19.7	19.8	19.8	19.7	19.7	19.7	19.8	18.9
4. EUOR	19.8	19.7	19.7	19.7	19.8	19.7	19.8	19.8	19.7	19.7	19.7	19.8	19.7
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	653	315	614	623	653	626	645	644	632	653	632	644	7334
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	91	357	130	96	91	94	99	100	88	92	88	100	1426
9. POH	0	312	24	0	0	0	0	0	0	0	0	0	336
10. FOH & EFOH	65	31	63	63	65	63	65	65	63	65	63	65	733
11. MOH & EMOH	82	40	79	79	82	79	82	82	79	82	79	82	927
12. OPER BTU (GBTU)	2220.964	1117.153	2153.506	2168.629	2287.050	2252.829	2346.574	2349.387	2292.101	2298.891	2222.237	2253.594	25962.915
13. NET GEN (MWH)	219,162	110,206	211,098	212,847	222,883	219,187	226,492	226,762	223,051	225,679	218,051	222,343	2,537,761
14. ANOHR (Btu/kwh)	10,134	10,137	10,201	10,189	10,261	10,278	10,361	10,361	10,276	10,187	10,191	10,136	10,231
15. NOF (%)	78.8	82.0	80.7	82.1	82.1	84.1	84.4	84.6	84.9	81.2	81.0	81.0	82.2
16. NPC (MW)	426	426	426	416	416	416	416	416	416	426	426	426	421
17. ANOHR EQUATION	ANOHR = NOF( -12.328 ) + 11244												

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DOCKET NO: 010001-EI



TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 2 FADJ (w/ FGD)	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	82.5	82.6	82.5	82.5	82.5	82.5	82.5	82.5	55.0	0.0	2.8	82.5	66.7
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	100.0	96.7	0.0	19.2
3. EUOF	17.5	17.4	17.5	17.5	17.5	17.5	17.5	17.5	11.7	0.0	0.6	17.5	14.1
4. EUOR	17.5	17.4	17.5	17.5	17.5	17.5	17.5	17.5	17.5	#DIV/0!	16.7	17.5	17.5
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	682	616	682	660	682	660	682	682	440	0	22	682	6487
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	62	56	62	59	62	60	62	62	280	745	698	62	2273
9. POH	0	0	0	0	0	0	0	0	240	745	696	0	1681
10. FOH & EFOH	65	59	65	63	65	63	65	65	42	0	2	65	623
11. MOH & EMOH	65	58	65	63	65	63	65	65	42	0	2	65	616
12. OPER BTU (GBTU)	2448.219	2274.744	2398.394	2309.441	2453.320	2396.963	2488.984	2489.211	1610.412	0.000	80.439	2435.281	23385.410
13. NET GEN (MWH)	246,809	229,392	242,333	233,660	247,631	241,084	249,193	249,205	162,060	0	8,106	245,639	2,355,112
14. ANOHR (Btu/kwh)	9,919	9,916	9,897	9,884	9,907	9,942	9,988	9,989	9,937	#DIV/0!	9,923	9,914	9,930
15. NOF (%)	85.0	87.5	83.5	85.1	87.3	87.8	87.9	87.9	88.5	#DIV/0!	87.2	84.6	86.2
16. NPC (MW)	426	426	426	416	416	416	416	416	416	426	426	426	421
17. ANOHR EQUATION	ANOHR = NOF( -12.51 ) + 11008												

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EFFECTIVE: 09/20/01  
DOCKET NO: 010001-EI

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	79.7	79.8	2.6	10.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	67.5
2. POF	0.0	0.0	96.8	86.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
3. EUOF	20.3	20.2	0.7	2.8	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	17.2
4. EUOR	20.3	20.2	20.8	21.1	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	562	592	22	79	658	628	649	649	636	644	622	643	6383
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	182	80	722	640	86	92	95	95	84	101	98	101	2377
9. POH	0	0	720	624	0	0	0	0	0	0	0	0	1344
10. FOH & EFOH	60	54	2	8	60	58	60	60	58	60	58	60	601
11. MOH & EMOH	91	82	3	12	91	88	91	91	88	91	88	91	905
12. OPER BTU (GBTU)	1752.441	2010.356	79.059	218.753	2090.826	2213.359	2283.025	2305.535	2322.122	2170.584	2194.868	2085.003	21725.933
13. NET GEN (MWH)	175,015	201,224	7,910	21,612	208,430	220,566	225,390	227,683	231,809	216,688	220,175	208,378	2,164,880
14. ANOHR (Btu/kwh)	10,013	9,991	9,995	10,122	10,031	10,035	10,129	10,126	10,017	10,017	9,969	10,006	10,036
15. NOF (%)	72.0	78.5	84.3	62.8	73.2	81.1	80.2	81.0	84.2	77.8	81.8	74.9	78.3
16. NPC (MW)	433	433	433	433	433	433	433	433	433	433	433	433	433
17. ANOHR EQUATION	ANOHR = NOF( -57.476 ) + 14536												

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EFFECTIVE: 09/20/01  
DOCKET NO: 010001-EI

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 4	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	87.8	87.6	87.8	87.6	87.8	87.6	87.8	87.8	87.6	87.8	84.9	31.2	82.6
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	64.5	5.8
3. EUOF	12.2	12.4	12.2	12.4	12.2	12.4	12.2	12.2	12.4	12.2	11.8	4.3	11.6
4. EUOR	12.2	12.4	12.2	12.4	12.2	12.4	12.2	12.2	12.4	12.2	12.2	12.1	12.3
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	691	570	646	645	603	625	672	671	665	687	616	197	7287
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	53	102	98	74	141	95	72	73	55	58	104	547	1473
9. POH	0	0	0	0	0	0	0	0	0	0	24	480	504
10. FOH & EFOH	45	41	45	44	45	44	45	45	44	45	42	16	504
11. MOH & EMOH	46	42	46	45	46	45	46	46	45	46	43	16	512
12. OPER BTU (GBTU)	2481.054	2034.728	2329.232	2343.517	2148.367	2351.869	2557.026	2568.677	2523.161	2692.294	2287.650	703.338	27020.914
13. NET GEN (MWH)	247,723	202,839	231,577	233,507	212,788	231,752	250,787	251,891	248,921	268,698	227,633	70,136	2,678,252
14. ANOHR (Btu/kwh)	10,015	10,031	10,058	10,036	10,096	10,148	10,196	10,198	10,136	10,020	10,050	10,028	10,089
15. NOF (%)	80.2	79.7	80.2	82.0	79.8	83.8	84.5	85.0	84.7	87.4	82.7	79.8	82.7
16. NPC (MW)	447	447	447	442	442	442	442	442	442	447	447	447	445
17. ANOHR EQUATION	ANOHR = NOF( -33.833 ) + 12887												

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	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	
GANNON 1													2002
1. EAF (%)	75.0	75.0	70.2	9.9	75.0	75.0	75.0	75.0	75.0	58.1	40.0	75.0	64.9
2. POF	0.0	0.0	6.5	86.8	0.0	0.0	0.0	0.0	0.0	22.6	46.7	0.0	13.4
3. EUOF	25.0	25.0	23.4	3.3	25.0	25.0	25.0	25.0	25.0	19.3	13.3	25.0	21.6
4. EUOR	25.0	25.0	25.0	25.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	455	464	415	55	432	486	481	486	520	394	249	470	4908
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	289	208	329	664	312	234	263	258	200	351	471	274	3852
9. POH	0	0	48	624	0	0	0	0	0	168	336	0	1176
10. FOH & EFOH	134	121	125	17	134	130	134	134	130	104	69	134	1365
11. MOH & EMOH	52	47	49	7	52	50	52	52	50	40	27	52	531
12. OPER BTU (GBTU)	497.049	537.396	482.306	66.927	498.186	588.222	578.656	585.663	633.525	476.432	301.355	526.813	5772.530
13. NET GEN (MWH)	43,403	47,196	42,173	5,856	43,119	50,829	49,973	50,593	55,129	41,799	26,532	46,127	502,729
14. ANOHR (Btu/kwh)	11,452	11,386	11,436	11,429	11,554	11,573	11,579	11,576	11,492	11,398	11,358	11,421	11,482
15. NOF (%)	83.6	89.3	89.1	93.9	87.5	91.8	91.0	91.4	93.0	93.1	93.4	86.0	89.9
16. NPC (MW)	114	114	114	114	114	114	114	114	114	114	114	114	114

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GANNON 2	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	41.3	32.9	71.0	54.4	71.0	71.1	71.0	71.0	71.1	55.0	37.9	71.0	60.1
2. POF	41.9	53.6	0.0	23.4	0.0	0.0	0.0	0.0	0.0	22.6	46.7	0.0	15.3
3. EUOF	16.8	13.5	29.0	22.3	29.0	28.9	29.0	29.0	28.9	22.4	15.4	29.0	24.6
4. EUOR	28.9	29.2	29.0	29.0	29.0	28.9	29.0	29.0	28.9	28.9	28.9	29.0	29.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	199	156	370	305	313	372	387	393	430	440	217	371	3951
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	545	516	374	414	431	348	357	351	290	305	503	373	4809
9. POH	312	360	0	168	0	0	0	0	0	168	336	0	1344
10. FOH & EFOH	95	69	164	121	164	158	164	164	158	127	84	164	1632
11. MOH & EMOH	30	22	52	39	52	50	52	52	50	40	27	52	519
12. OPER BTU (GBTU)	199,303	167,654	402,256	347,531	342,310	434,186	448,724	456,375	498,846	498,346	245,162	379,546	4420,239
13. NET GEN (MWH)	16,657	14,126	33,334	28,717	27,559	34,588	35,703	36,332	40,577	41,525	20,591	31,817	361,526
14. ANOHR (Btu/kwh)	11,965	11,868	12,067	12,102	12,421	12,553	12,568	12,561	12,294	12,001	11,906	11,929	12,227
15. NOF (%)	85.6	92.4	92.0	96.2	89.9	94.9	94.1	94.4	96.3	96.3	97.0	87.6	93.4
16. NPC (MW)	98	98	98	98	98	98	98	98	98	98	98	98	98

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GANNON 3	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	71.0	71.0	71.0	54.4	71.0	71.1	71.0	71.0	63.9	13.8	71.1	71.0	64.2
2. POF	0.0	0.0	0.0	23.4	0.0	0.0	0.0	0.0	10.0	80.5	0.0	0.0	9.6
3. EUOF	29.0	29.0	29.0	22.3	29.0	28.9	29.0	29.0	26.1	5.6	28.9	29.0	26.2
4. EUOR	29.0	29.0	29.0	29.0	29.0	28.9	29.0	29.0	29.0	29.0	28.9	29.0	29.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	473	442	431	320	382	444	457	457	413	87	442	460	4808
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	271	230	313	399	362	276	287	287	307	658	278	284	3952
9. POH	0	0	0	168	0	0	0	0	72	600	0	0	840
10. FOH & EFOH	164	148	164	121	164	158	164	164	143	32	158	164	1742
11. MOH & EMOH	52	47	52	39	52	50	52	52	45	10	50	52	554
12. OPER BTU (GBTU)	696.415	679.911	659.506	499.324	561.854	690.950	706.895	708.716	649.411	137.683	683.537	691.909	7366.111
13. NET GEN (MWH)	57,783	56,639	54,755	41,356	46,016	56,700	57,971	58,139	53,588	11,460	56,951	57,538	608,896
14. ANOHR (Btu/kwh)	12,052	12,004	12,045	12,074	12,210	12,186	12,194	12,190	12,119	12,014	12,002	12,025	12,097
15. NOF (%)	84.3	88.4	87.5	89.1	83.1	88.1	87.5	87.8	89.5	90.9	88.8	86.2	87.3
16. NPC (MW)	145	145	145	145	145	145	145	145	145	145	145	145	145

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GANNON 4	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	65.1	64.9	65.1	65.1	65.1	65.0	65.1	65.1	65.0	52.5	17.4	65.1	60.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3	73.3	0.0	7.7
3. EUOF	34.9	35.1	34.9	34.9	34.9	35.0	34.9	34.9	35.0	28.2	9.3	34.9	32.3
4. EUOR	34.9	35.1	34.9	34.9	34.9	35.0	34.9	34.9	35.0	34.9	34.9	34.9	35.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	457	421	419	408	436	398	408	409	441	353	110	445	4706
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	287	251	325	311	308	322	336	335	279	392	610	299	4054
9. POH	0	0	0	0	0	0	0	0	0	144	528	0	672
10. FOH & EFOH	171	155	171	165	171	166	171	171	166	138	44	171	1860
11. MOH & EMOH	89	81	89	86	89	86	89	89	86	72	23	89	971
12. OPER BTU (GBTU)	745.656	725.323	719.441	683.443	631.046	669.060	680.220	684.734	747.418	595.647	196.615	745.802	7824.405
13. NET GEN (MWH)	61,946	60,575	59,766	56,538	58,233	54,660	55,503	55,904	61,563	49,570	16,432	62,133	652,823
14. ANOHR (Btu/kwh)	12,037	11,974	12,038	12,088	10,837	12,240	12,256	12,248	12,141	12,016	11,965	12,003	11,985
15. NOF (%)	80.3	85.1	84.3	87.1	83.9	86.5	85.5	85.9	87.8	83.2	88.1	82.6	84.6
16. NPC (MW)	169	169	169	159	159	159	159	159	159	169	169	169	164

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GANNON 5	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	66.9	35.9	0.0	40.2	66.9	66.9	66.9	66.9	66.9	67.0	66.9	66.9	56.7
2. POF	0.0	46.4	100.0	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
3. EUOF	33.1	17.7	0.0	19.7	33.1	33.1	33.1	33.1	33.1	33.0	33.1	33.1	27.9
4. EUOR	33.1	33.1	0.0	32.9	33.1	33.1	33.1	33.1	33.1	33.0	33.1	33.1	33.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	538	261	0	311	538	521	538	538	521	538	521	538	5361
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	206	411	744	408	206	199	206	206	199	207	199	206	3399
9. POH	0	312	744	288	0	0	0	0	0	0	0	0	1344
10. FOH & EFOH	186	90	0	108	186	180	186	186	180	186	180	186	1854
11. MOH & EMOH	60	29	0	34	60	58	60	60	58	60	58	60	593
12. OPER BTU (GBTU)	859,534	433,307	0.000	506,387	847,046	891,330	899,839	905,256	923,239	944,017	863,521	863,669	8937,146
13. NET GEN (MWH)	82,068	41,414	0	47,252	77,777	81,330	81,938	82,477	85,615	89,514	82,208	82,439	834,032
14. ANOHR (Btu/kwh)	10,473	10,463	0	10,717	10,891	10,959	10,982	10,976	10,784	10,546	10,504	10,476	10,716
15. NOF (%)	67.2	70.0	0.0	73.0	69.5	75.1	73.2	73.7	79.1	73.3	69.6	67.5	71.5
16. NPC (MW)	227	227	227	208	208	208	208	208	208	227	227	227	218
17. ANOHR EQUATION	ANOHR = NOF(-4.3274) + 11025												

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GANNON 6	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	78.0	78.0	78.0	67.6	62.9	78.1	78.0	78.0	78.1	45.4	0.0	45.3	63.9
2. POF	0.0	0.0	0.0	13.4	19.4	0.0	0.0	0.0	0.0	41.9	100.0	41.9	18.1
3. EUOF	22.0	22.0	22.0	19.1	17.7	21.9	22.0	22.0	21.9	12.8	0.0	12.8	18.0
4. EUOR	22.0	22.0	22.0	22.0	22.0	21.9	22.0	22.0	21.9	21.9	0.0	22.0	22.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	565	511	565	475	456	547	565	565	547	329	0	328	5454
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	179	161	179	244	288	173	179	179	173	416	720	416	3307
9. POH	0	0	0	96	144	0	0	0	0	312	720	312	1584
10. FOH & EFOH	112	101	112	93	90	108	112	112	108	65	0	65	1076
11. MOH & EMOH	52	47	52	44	42	50	52	52	50	30	0	30	502
12. OPER BTU (GBTU)	1771.122	1642.639	1816.412	1492.794	1372.987	1761.459	1819.788	1832.828	1830.106	1090.587	0.000	1053.391	17484.111
13. NET GEN (MWH)	167,645	155,198	170,436	139,572	127,028	162,603	168,152	169,458	170,362	103,191	0	99,746	1,633,391
14. ANOHR (Btu/kwh)	10,565	10,584	10,657	10,696	10,809	10,833	10,822	10,816	10,742	10,569	0	10,561	10,704
15. NOF (%)	75.6	77.5	76.9	79.0	74.9	79.9	80.0	80.6	83.7	80.1	0.0	77.7	78.4
16. NPC (MW)	392	392	392	372	372	372	372	372	372	392	392	392	382
17. ANOHR EQUATION	ANOHR = NOF( 25.825 ) + 8679.5												

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PHILLIPS 1	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	91.0	90.9	85.1	54.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	87.5
2. POF	0.0	0.0	6.5	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
3. EUOF	9.0	9.1	8.5	5.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.7
4. EUOR	9.0	9.1	9.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	178	190	276	166	252	373	448	455	534	454	416	356	4098
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	566	482	468	553	492	347	296	289	186	291	304	388	4662
9. POH	0	0	48	288	0	0	0	0	0	0	0	0	336
10. FOH & EFOH	30	27	28	17	30	29	30	30	29	30	29	30	337
11. MOH & EMOH	37	34	35	22	37	36	37	37	36	37	36	37	421
12. OPER BTU (GBTU)	27,576	29,579	43,248	25,412	37,076	58,672	68,757	70,271	83,482	70,663	65,023	52,670	632,430
13. NET GEN (MWH)	2,948	3,162	4,623	2,719	3,975	6,271	7,358	7,519	8,927	7,557	6,953	5,647	67,659
14. ANOHR (Btu/kwh)	9,354	9,355	9,355	9,346	9,327	9,356	9,345	9,346	9,352	9,351	9,352	9,327	9,347
15. NOF (%)	97.3	98.0	98.4	96.4	92.7	98.9	96.7	97.3	98.4	98.0	98.2	93.4	97.1
16. NPC (MW)	17	17	17	17	17	17	17	17	17	17	17	17	17

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PHILLIPS 2	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	91.0	90.9	91.0	36.4	41.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0	82.3
2. POF	0.0	0.0	0.0	60.1	54.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
3. EUOF	9.0	9.1	9.0	3.5	4.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.1
4. EUOR	9.0	9.1	9.0	8.7	8.9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	174	186	275	125	108	369	444	451	530	450	413	348	3872
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	570	486	469	594	636	351	300	294	190	295	307	396	4888
9. POH	0	0	0	432	408	0	0	0	0	0	0	0	840
10. FOH & EFOH	30	27	30	11	13	29	30	30	29	30	29	30	317
11. MOH & EMOH	37	34	37	14	17	36	37	37	36	37	36	37	396
12. OPER BTU (GBTU)	27.024	29.149	43.146	19.150	15.893	58.195	68.244	69.711	82.968	70.158	64.527	51.784	599.948
13. NET GEN (MWH)	2,889	3,116	4,612	2,049	1,704	6,220	7,303	7,459	8,872	7,503	6,900	5,552	64,179
14. ANOHR (Btu/kwh)	9,354	9,355	9,355	9,346	9,327	9,356	9,345	9,346	9,352	9,351	9,352	9,327	9,348
15. NOF (%)	97.8	98.3	98.7	96.5	93.2	99.1	96.8	97.4	98.5	98.1	98.4	93.7	97.5
16. NPC (MW)	17	17	17	17	17	17	17	17	17	17	17	17	17

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ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 CT1	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	64.9	51.0	62.9	65.0	64.9	65.0	64.9	64.9	65.0	65.0	65.0	64.9	63.8
2. POF	0.0	21.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
3. EUOF	35.1	27.5	33.9	35.0	35.1	35.0	35.1	35.1	35.0	35.0	35.0	35.1	34.3
4. EUOR	35.1	35.0	35.0	35.0	35.1	35.0	35.1	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	12	16	32	70	15	95	128	107	61	48	54	23	661
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	732	656	712	649	729	625	616	637	659	697	666	721	8099
9. POH	0	144	24	0	0	0	0	0	0	0	0	0	168
10. FOH & EFOH	149	106	144	144	149	144	149	149	144	149	144	149	1718
11. MOH & EMOH	112	79	108	108	112	108	112	112	108	112	108	112	1289
12. OPER BTU (GBTU)	3.655	4.848	9.632	16.344	3.391	22.119	29.735	24.898	14.342	14.386	16.392	6.680	166.422
13. NET GEN (MWH)	203	269	535	831	172	1,120	1,507	1,264	729	800	912	370	8,712
14. ANOHR (Btu/kwh)	18,005	18,022	18,004	19,668	19,715	19,749	19,731	19,698	19,674	17,983	17,974	18,054	19,103
15. NOF (%)	97.6	97.7	97.8	99.0	98.5	97.8	98.1	98.7	99.0	98.6	98.5	96.6	90.9
16. NPC (MW)	17	17	17	12	12	12	12	12	12	17	17	17	15

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2002 - DECEMBER 2002

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 CT2	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	69.1	69.0	53.5	69.1	69.1	68.9	69.1	69.1	68.9	69.1	68.9	69.1	67.7
2. POF	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
3. EUOF	30.9	31.0	23.9	30.9	30.9	31.1	30.9	30.9	31.1	30.9	31.1	30.9	30.4
4. EUOR	30.9	31.0	30.9	30.9	30.9	31.1	30.9	30.9	31.1	30.9	31.1	30.9	31.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	18	29	34	83	19	116	154	140	75	55	64	36	823
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	726	643	710	636	725	604	590	604	645	690	656	708	7937
9. POH	0	0	168	0	0	0	0	0	0	0	0	0	168
10. FOH & EFOH	115	104	89	111	115	112	115	115	112	115	112	115	1332
11. MOH & EMOH	115	104	89	111	115	112	115	115	112	115	112	115	1332
12. OPER BTU (GBTU)	19,763	32,721	39,618	83,325	18,278	116,638	154,330	135,857	74,340	65,630	75,826	39,661	855,987
13. NET GEN (MWH)	1,269	2,102	2,553	5,279	1,155	7,377	9,767	8,510	4,685	4,242	4,905	2,535	54,379
14. ANOHR (Btu/kwh)	15,574	15,567	15,518	15,784	15,825	15,811	15,801	15,964	15,868	15,471	15,459	15,645	15,741
15. NOF (%)	90.5	90.8	93.6	96.0	94.3	96.0	96.4	92.1	94.6	95.9	95.4	87.6	90.5
16. NPC (MW)	80	80	80	66	66	66	66	66	66	80	80	80	73

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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 CT3	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	69.1	69.0	53.5	69.1	69.1	68.9	69.1	69.1	68.9	69.1	68.9	69.1	67.7
2. POF	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
3. EUOF	30.9	31.0	23.9	30.9	30.9	31.1	30.9	30.9	31.1	30.9	31.1	30.9	30.4
4. EUOR	30.9	31.0	30.9	30.9	30.9	31.1	30.9	30.9	31.1	30.9	31.1	30.9	31.0
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	15	25	31	80	17	110	145	124	70	53	62	30	761
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	729	647	713	639	727	610	599	620	650	692	658	714	7999
9. POH	0	0	168	0	0	0	0	0	0	0	0	0	168
10. FOH & EFOH	115	104	89	111	115	112	115	115	112	115	112	115	1332
11. MOH & EMOH	115	104	89	111	115	112	115	115	112	115	112	115	1332
12. OPER BTU (GBTU)	17.139	28.405	35.883	79.288	16.826	109.132	145.570	122.432	69.432	63.075	72.601	32.399	792.182
13. NET GEN (MWH)	1,101	1,824	2,312	5,019	1,062	6,897	9,208	7,727	4,388	4,079	4,693	2,070	50,380
14. ANOHR (Btu/kwh)	15,567	15,573	15,520	15,798	15,844	15,823	15,809	15,845	15,823	15,463	15,470	15,652	15,724
15. NOF (%)	90.7	90.3	93.3	95.5	93.7	95.4	95.9	94.5	95.3	96.1	94.8	87.3	90.6
16. NPC (MW)	80	80	80	66	66	66	66	66	66	80	80	80	73

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TAMPA ELECTRIC COMPANY  
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JANUARY 2002 - DECEMBER 2002

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
POLK 1	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	84.5	84.4	84.5	53.4	38.2	84.6	84.5	84.5	84.6	84.6	84.6	84.5	78.0
2. POF	0.0	0.0	0.0	36.7	54.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
3. EUOF	15.5	15.6	15.5	9.9	7.0	15.4	15.5	15.5	15.4	15.4	15.4	15.5	14.3
4. EUOR	15.5	15.6	15.5	15.6	15.5	15.4	15.5	15.5	15.4	15.4	15.4	15.5	15.5
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	576	520	576	427	576	557	576	576	557	576	557	576	6652
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	168	152	168	292	168	163	168	168	163	169	163	168	2108
9. POH	0	0	0	264	408	0	0	0	0	0	0	0	672
10. FOH & EFOH	89	81	89	55	40	86	89	89	86	89	86	89	971
11. MOH & EMOH	26	24	26	16	12	25	26	26	25	26	25	26	283
12. OPER BTU (GBTU)	1420.694	1289.281	1427.784	1052.620	1388.930	1385.545	1430.622	1431.565	1390.353	1436.760	1389.052	1427.708	16470.914
13. NET GEN (MWH)	140,791	127,795	141,528	104,354	137,635	137,375	141,850	141,949	137,880	142,483	137,743	141,533	1,632,916
14. ANOHR (Btu/kwh)	10,091	10,089	10,088	10,087	10,091	10,086	10,085	10,085	10,084	10,084	10,084	10,087	10,087
15. NOF (%)	97.8	98.2	98.3	97.7	95.6	98.6	98.5	98.6	98.9	98.9	98.8	98.3	98.2
16. NPC (MW)	250	250	250	250	250	250	250	250	250	250	250	250	250
17. ANOHR EQUATION	ANOHR = NOF( -14.839 ) + 11544												

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TAMPA ELECTRIC COMPANY  
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JANUARY 2002 - DECEMBER 2002

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
POLK 2	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)	83.5	41.7	83.5	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	80.3
2. POF	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
3. EUOF	16.5	8.3	16.5	16.6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	15.9
4. EUOR	16.5	16.7	16.5	16.6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
5. PH	744	672	744	719	744	720	744	744	720	745	720	744	8760
6. SH	135	79	231	289	221	331	340	341	428	341	290	183	3208
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	610	593	513	430	523	389	404	403	292	404	430	561	5552
9. POH	0	336	0	0	0	0	0	0	0	0	0	0	336
10. FOH & EFOH	60	27	60	58	60	58	60	60	58	60	58	60	674
11. MOH & EMOH	63	29	63	61	63	61	63	63	61	63	61	63	716
12. OPER BTU (GBTU)	201.122	129.306	365.380	460.282	328.336	509.315	523.668	522.980	668.759	537.274	465.305	267.662	4979.389
13. NET GEN (MWH)	19,134	12,529	35,166	44,208	31,075	48,342	49,721	49,621	63,625	51,317	44,732	25,384	474,854
14. ANOHR (Btu/kwh)	10,511	10,321	10,390	10,412	10,566	10,536	10,532	10,539	10,511	10,470	10,402	10,545	10,486
15. NOF (%)	79.0	87.9	84.6	102.1	93.7	97.5	97.6	97.0	99.0	83.7	85.8	77.0	89.7
16. NPC (MW)	180	180	180	150	150	150	150	150	150	180	180	180	165

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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
POLK 3	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	2002
1. EAF (%)					69.9	70.0	69.9	69.9	70.0	69.9	53.6	69.9	68.7
2. POF					0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0	1.9
3. EUOF					30.1	30.0	30.1	30.1	30.0	30.1	23.1	30.1	29.4
4. EUOR					30.1	30.0	30.1	30.1	30.0	30.1	30.1	30.1	30.0
5. PH					744	720	744	744	720	745	720	744	8760
6. SH					161	268	276	274	351	283	177	114	1903
7. RSH					0	0	0	0	0	0	0	0	0
8. UH					583	452	468	470	369	462	543	630	6857
9. POH					0	0	0	0	0	0	168	0	168
10. FOH & EFOH					112	108	112	112	108	112	83	112	1289
11. MOH & EMOH					112	108	112	112	108	112	83	112	1289
12. OPER BTU (GBTU)					235,602	409,519	423,671	417,285	537,615	448,825	287,210	162,841	2,922,568
13. NET GEN (MWH)					22,266	38,856	40,222	39,600	50,857	43,018	27,729	15,391	277,939
14. ANOHR (Btu/kwh)					10,581	10,539	10,533	10,538	10,571	10,433	10,358	10,580	10,515
15. NOF (%)					92.3	96.7	97.1	96.5	96.6	84.5	86.8	75.0	88.5
16. NPC (MW)					150	150	150	150	150	180	180	180	165

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EXHIBITS TO THE TESTIMONY OF  
GEORGE A. KESELOWSKY

DOCKET NO. 010001-EI

GENERATING PERFORMANCE INCENTIVE FACTOR  
JANUARY 2002 - DECEMBER 2002

DOCUMENT NO. 2

SUMMARY OF GPIF TARGETS

**TAMPA ELECTRIC COMPANY  
SUMMARY OF GPIF TARGETS  
JANUARY 2002 - DECEMBER 2002**

Unit	Availability			Net
	EAF	POF	EUOF	Heat Rate
Big Bend 1	77.3	3.8	18.9	10,231 <sup>1/</sup>
Big Bend 2	66.7	19.2	14.2	9,928 <sup>2/</sup>
Big Bend 3	67.5	15.3	17.2	10,036 <sup>3/</sup>
Big Bend 4	82.6	5.8	11.6	10,089 <sup>4/</sup>
Gannon 5	56.7	15.3	27.9	10,716 <sup>5/</sup>
Gannon 6	63.9	18.1	18.0	10,704 <sup>6/</sup>
Polk 1	78.0	7.7	14.3	10,087 <sup>7/</sup>

<sup>1/</sup> Original Sheet 8.401.02E, Page 14

<sup>2/</sup> Original Sheet 8.401.02E, Page 15

<sup>3/</sup> Original Sheet 8.401.02E, Page 16

<sup>4/</sup> Original Sheet 8.401.02E, Page 17

<sup>5/</sup> Original Sheet 8.401.02E, Page 18

<sup>6/</sup> Original Sheet 8.401.02E, Page 19

<sup>7/</sup> Original Sheet 8.401.02E, Page 20